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Director's Prologue



Donna GibsonDirector, Library Services

In April 2020, the Memorial Sloan Kettering Library began tracking COVID-19 related works to highlight the contributions of MSK researchers to the growing body of publications focused on the pandemic. A special COVID tab was created within Synapse (our database of MSK Publications), where a user could view these works and see the breakout by publication format (e.g., research papers, editorials, guidelines, preprints, etc.)

During the early days of COVID-19, we witnessed an unprecedented number of researchers sharing their research findings via preprint servers, publishers supporting a faster publication process in order to disseminate research output quicker, and the impact of how responses to COVID-19 highlighted the importance of collaboration for scientific advancement.

The COVID-19 Publication Report analyzes this body of bibliographic citations to provide the reader with additional insights such as the top scoring papers via Altmetric, the top highly cited papers, which journals were identified as having published the largest number of submitted MSK manuscripts, the rise of preprint servers, the impact of open access, and a networking map visualization to show the research collaborations between Memorial Sloan Kettering and the fifty organizations that our authors most frequently worked with. Since 90% of the COVID-19 research publications were NIH-funded and available via PMC (PubMed Central), we also decided to annotate these works and provide lay summary abstracts (where applicable) written specifically for the public, to expand the reach and perhaps the interest in viewing this report. Many thanks go out to Jeanine McSweeney, Associate Librarian, Scholarly Communications, and her team (Chris Boire, Tiffany Chan & Christina Glaviano) for their hard work in preparing the content for this online report.

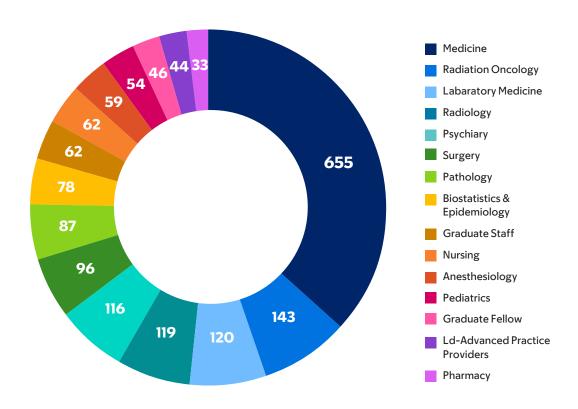
While we continue to monitor MSK-authored COVID-19 scholarly works, this report provides a snapshot of these publications from April 2020 to December 2022, with a total of 607 publications for this time period. Over sixty-five departments and services are represented to include such groups as Anesthesiology, Biostatistics & Epidemiology, and Medicine, as well as authors from our nursing, pharmacy, and postdoc communities.

Summary Data

From 2020 to 2022, MSK-affiliated authors contributed to at least **607 COVID-19-related publications.**

Document Types			
Articles	267		
Reviews	50		
Research Letters	17		
Guidelines	28		
Editorials	114		
Correspondence	26		
Preprints	54		
Meeting Abstracts	51		
	607		

Our authors represent contributions across **over 65 MSK departments and services**. The top 15 departments are shown here, with the number of times an author from that department was represented on a COVID-19 publication.



Top Authors

Here we highlight the 10 most prolific authors, based on a count of their works in our COVID-19 list, including research articles, editorials, reviews, guidelines, preprints and meeting abstracts. These works also represent their collaborations with other researchers and investigators both within and outside the Institution.



37 Mini Kamboj, MDInfectious Disease Specialist, Chief Medical Epidemiologist, Infection Control



17 Justin Jee, MD, PhD Research Scientist



35 Esther Babady, PhD, D(ABMM), FIDSA Clinical Microbiologist, Chief, Clinical Microbiology Service



16 Miguel Angel Perales, MD
Medical Oncologist, Chief, Adult Bone
Marrow Transplant Service



19 William Rosa, PhD, MBE, MS Assistant Attending Behavioral Scientist



14 Rocio Perez Johnston, MD Assistant Attending Radiologist



19 Elizabeth Robilotti, MD, MPH Infectious Disease Specialist, Associate Director



13 Genovefa Papanicolaou, MD Infectious Diseases Specialist, Attending Physician



18 Santosha Vardhana, MDMedical Oncologist, Assistant
Attending Physician



10 William S. Breitbart, MD
Psychiatrist, Chair, Department of
Psychiatry and Behavioral Sciences; Jimmie
C. Holland Chair in Psychiatric Oncology

Top Scoring Papers via Altmetric

The Altmetric Attention Score is derived from an automated algorithm and represents a weighted count of the amount of attention a research output receives on the Internet. It gives a guide to the overall attention at that moment in time. The colors of the donut also have significance. Each color represents the source in which mentions of the paper were found (e.g. red for news outlets, blue for Twitter, yellow for blogs, etc.)

LEGEND

- News
- Wikipedia
- Blogs
- LinkedIn
- Twitter
- Reddit
- Facebook
- Google+
- Sina Weibo
- Pinterest
- Syllabi
- Patents
- Policy **Documents**
- Q&A (Stack Overfolw)
- YouTube
- Post-Publication Peer-Reviews
- Research Highlight **Platform**

SARS-CoV-2 entry factors are highly expressed in nasal epithelial cells together with innate immune genes Nature Medicine | Dana Pe'er



Complement associated microvascular injury and thrombosis in the pathogenesis of severe COVID-19 infection: A report of five cases

Translational Research | Joseph Justin Mulvey



Anxiety levels among physician mothers during the COVID-19 pandemic American Journal of Psychiatry | Lisa Diamond



Shedding of viable SARS-COV-2 after <u>immunosuppressive therapy for cancer</u>

New England Journal of Medicine | Ngolela Esther Babady, Kent Sepkowitz, Tobias Hohl, Genovefa Papanicolaou, Mini Kamboj, Miguel-Angel Perales, Gunjan Shah



Multidisciplinary recommendations regarding post-vaccine adenopathy and radiologic imaging: Radiology scientific expert panel

Radiology | Kimberly Feigin, Hedvig Hricak, Hebert Vargas Alvarez, Rocio Perez Johnston. Katherine Gallagher, Randy Yeh, Marius Mayerhoefer, Anton Becker, Maria El Homsi, Ahmet Ilica



Lung epithelial and endothelial damage, loss of tissue repair, inhibition of fibrinolysis, and cellular senescence in fatal COVID-19 Science Translational Medicine | William D. Travis



SARS-CoV-2 simulations go exascale to predict dramatic spike opening and cryptic pockets across the proteome Nature Chemistry | John Chodera, Rafal Wiewiora



Inborn errors of OAS-RNase L in SARS-CoV-2-related multisystem inflammatory syndrome in children

Science | Frederic Geissmann, Tomi Lazarov



Common human genetic variants of APOE impact murine COVID-19 mortality

Nature | Sebastian Carrasco



A molecular single-cell lung atlas of lethal COVID-19

Nature | Samuel Bakhoum

*Altmetric Attention Scores occur in real time and can fluctuate based on new mentions or new sources added to the calculation. The scores shown are current as of 3/17/2023.

Highly Cited Papers

The following represent the most highly-cited COVID-19 papers with an MSK affiliation according to data retrieved from Dimensions on 03/16/2023. (note: Only the MSK authors on the papers are shown).



SARS-CoV-2 entry factors are highly expressed in nasal epithelial cells together with innate immune genes

Nature Medicine | Dana Pe'er



Safety recommendations for evaluation and surgery of the head and neck during the COVID-19 pandemic

JAMA Otolaryngology - Head and Neck Surgery | Luc Morris



Complement associated microvascular injury and thrombosis in the pathogenesis of severe COVID-19 infection: A report of five cases

Translational Research | Joseph Justin Mulvey



The many faces of the anti-COVID immune response

Journal of Experimental Medicine | Jedd D. Wolchok, Santosha Adipudi Vardhana



<u>Circulating SARS-CoV-2 spike N439K variants maintain</u> <u>fitness while evading antibody-mediated immunity</u>

Cell | John D. Chodera, William Glass, Ivy Zhang



TMPRSS2 and COVID-19: Serendipity or opportunity for intervention?

Cancer Discovery | Philip W. Kantoff, Konrad H. Stopsack



Efficacy of the BNT162b2 mRNA COVID-19 vaccine in patients with chronic lymphocytic leukemia

Blood | Erel Joffe



Report from the American Society for Microbiology COVID-19 International Summit, 23 March 2020: Value of diagnostic testing for SARS—CoV-2/COVID-19

mBio | Ngolela E. Babady



A human pluripotent stem cell-based platform to study SARS-CoV-2 tropism and model virus infection in human cells and organoids

Cell Stem Cell | Lorenz Studer, Sudha Ragavalli Guttikonda, Gabriele Ciceri, Taewan Kim, Oliver Harschnitz



<u>Shedding of viable SARS-COV-2 after</u> <u>immunosuppressive therapy for cancer</u>

New England Journal of Medicine | Ngolela E. Babady, Kent A. Sepkowitz, Tobias M. Hohl, Genovefa A Papanicolaou, Mini Kamboj, Miguel-Angel Perales, Gunjan Lalitchandra Shah

Top Journals

The following chart shows the top 10 journal titles that MSK authors published their COVID-19 publications in (includes journal articles, reviews, research letters, correspondence, editorials, and guidelines, but not preprints or meeting abstracts).

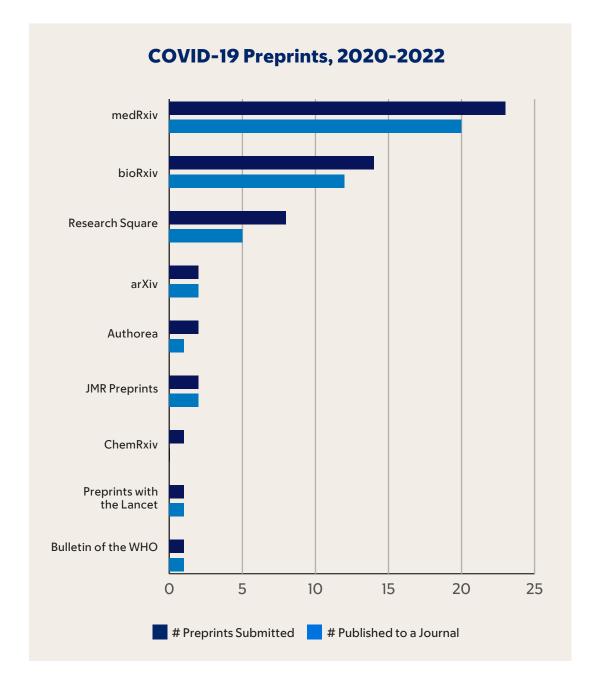
Journal Title	# of works	Impact Factor
JCO Oncology Practice	10	3.487
JAMA Oncology	10	33.012
Advances in Radiation Oncology	10	0.82
Cancer	8	6.921
Journal of Geriatric Oncology	7	3.929
Palliative and Supportive Care	7	3.733
Transplantation and Cellular Therapy	7	n/a
International Journal of Radiation Oncology Biology Physics	6	8.013
Pediatric Blood and Cancer	5	3.838
Journal of Nuclear Medicine	3	11.082

^{*}Impact factors were retrieved on 3/16/2023 from Journal Citation Reports, a product of Clarivate Analytics.

From 2020 to 2022, we identified **54** preprints related to COVID-19 with an MSK author. As of 3/17/2023, 44 of them, **81%**, have since been published to a peer-reviewed journal.

Preprints

The number of preprints escalated during the pandemic and represented one way in which scientists could disseminate their research findings quickly. By definition, a preprint is a draft manuscript that is shared publicly (often via a preprint server) before it has been peer reviewed. The National Institutes of Health (NIH) Preprint Pilot, a project of the National Library of Medicine, made NIH-funded preprints available in PubMed Central and included references to NIHfunded preprints in PubMed to further expose these research findings and increase their discoverability. 37% of the **COVID-19 preprints we tracked** from our MSK authors were available in PubMed Central.



Open Access

Types of Open Access Journals

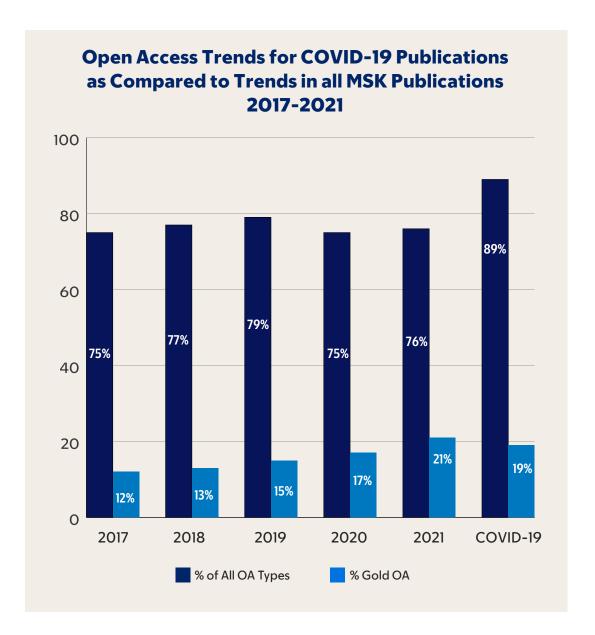
Gold: Fully open access journals with a Creative Commons (CC) license.

Hybrid gold: Journals which provide authors the choice of publishing open access and including the Creative Commons license.

Bronze: The publisher has chosen to provide temporary or permanent free access to the publication, but without a license.

Green: Published or manuscript version accepted for publication and available on an institutional or other open repository

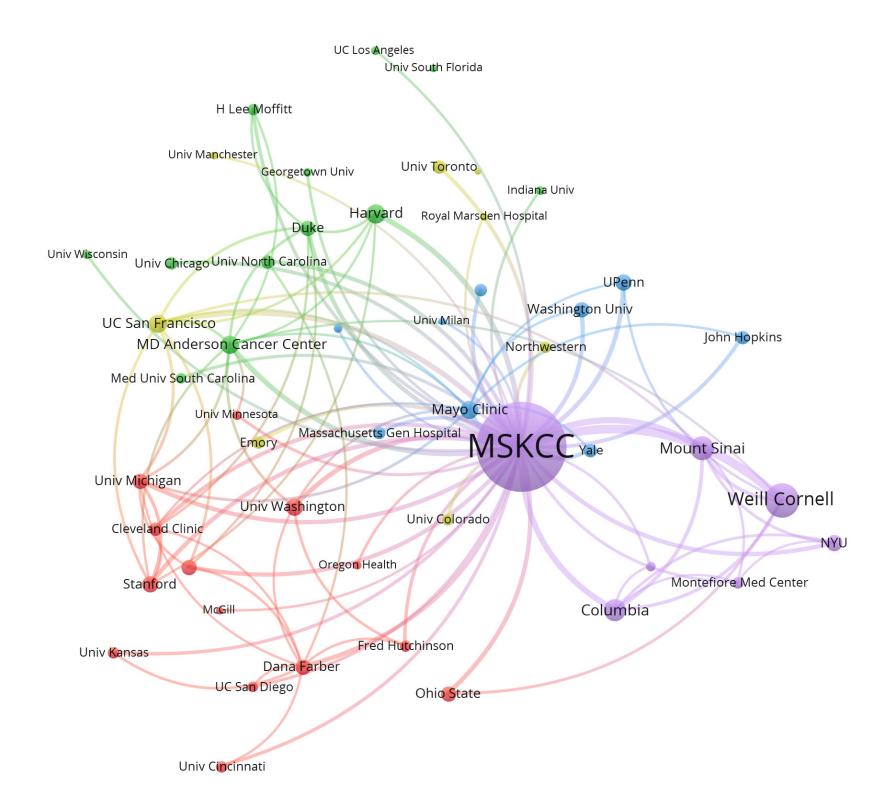
% of COVID-19 papers that were fully Open Access (Gold) was not significantly higher than OA publication trends in previous years, however the % of papers that included ALL open access types increased by an average of 13 percentage points.



Research Collaborations

VOSviewer is a software tool for constructing and visualizing bibliometric networks. Those networks can include relationships between authors, journals, institutions, or keywords/subjects, and are based on citation information from research publications. Here, we used the citations of all MSK-authored COVID-19 publications from 2020 to 2022 and analyzed the author affiliations of all co-authors using the VOSviewer tool. The map on the following page shows the 50 organizations our MSK authors most frequently collaborated with on publications. The larger the circles (nodes), the greater the frequency of occurrence of shared authorships with MSK. The different colors further indicate the clusters of organizations that appeared most frequently together on papers. Looking at the purple group in our map, you will see that publications co-authored with Weill Cornell will also frequently have authors from Columbia, NYU, and Mount Sinai. Publications clustered in the red group frequently include authors from Stanford, University of Michigan, Cleveland Clinic, etc.

Learn more about the VOSviewer tool



Research Collaborations

63% of papers were collaborations within the United States, while 37% were International. Overall, 19% of papers had no outside collaborators (MSK authors only).

Top 15 Collaborating Institutions				
Weill Cornell Medicine (New York, NY)	99			
Icahn School of Medicine, Mt Sinai (New York, NY)				
University of Texas MD Anderson Cancer Center (Houston, TX)	40			
Dana-Farber Cancer Institute (Boston, MA)	36			
Harvard Medical School (Cambridge, MA)	34			
University of California California, San Francisco (San Francisco, CA)	32			
Massachusets General Hospital (Boston, MA)	30			
Mayo Clinic (Rochester, MN)				
Brigham and Women's Hospital (Boston, MA)	28			
Albert Einstein College of Medicine of Yeshiva University (Bronx, NY)	27			
Columbia University (New York, NY)	52			
University of Washington (Seattle, WA)	23			
Cleveland Clinic Foundation (Cleveland, OH)	23			
NYU Langone Health (New York, NY)	23			
University of Michigan, Ann Arbor (Ann Arbor, MI)	22			

Resources for COVID-19 Literature

Research Informationists at the library developed a <u>COVID-19 LibGuide</u> in 2020 to help navigate the growing body of COVID-19 literature and resources. Navigating to the three tabs shown here provides extensive resources on finding COVID-specific literature, databases, data repositories, and research initiatives.

Memorial Sloan Kettering Library



Memorial Sloan Kettering Cancer Center Library / LibGuides / COVID-19 / Welcome

COVID-19: Welcome

COVID-19 resources for the MSK community.

Welcome	Local Resources	Data, Visualizations, and Trackers		Literature	Pul	oMed Papers Me		ntal Health and Workplace Safety	Equity, Ethics, and Communication	
Guiding Clinical and Cancer Care		Vaccines and Treatment	Post-	COVID Condition	ns	Research Effo	orts	Information for Cancer Patients and Caregive		
Purpose of G	ıide									

This guide was created by the MSK Library in support of the medical, research, and patient communities at Memorial Sloan Kettering Cancer Center (MSK).

It began in 2020 as a list of resources for finding and accessing information about COVID-19 and has grown to encompass curated collections across various areas, with sites vetted by library staff and organized by topic. Care was taken to place sites appropriately, but some in scope span multiple tabs.

This is not a comprehensive list, but a selection of general and cancer-specific COVID-19 resources that we think will be most useful to our oncology community. Depending on your role and need, and as the pandemic evolves, some resources may be more helpful than others. We hope you're able to use this as a platform for understanding the complex and ongoing nature of the COVID-19 pandemic.

Disclaimer: Information sources are routinely monitored to keep content current, but inclusion of a resource does not mean a full endorsement by MSK, nor does information replace the advice of a health care professional.

Bibliography of Works

The following annotated bibliography consists of 607 MSK-authored COVID-19-related works that were tracked by the library staff from April 2020 to December 2022.

The bibliography is divided into 8 sections:

Articles

Presentation of original research investigations that are likely, but not always, peer-reviewed, including the following:

- · Clinical trials, meta-analyses, laboratory investigations
- Case reports and brief reports
- White papers
- Chapters from a monographic series

Reviews

Comprehensive literature, topic, or subject summaries, including systematic reviews.

Research Letters

Original research presented in journals as correspondence.

Editorials

Editorials, viewpoints, commentaries, and other opinion type pieces published in journals.

Guidelines

A set of guidelines/recommendations written on behalf of a professional group or society.

Correspondence

Letters to the editor, replies, and other items included in the correspondence sections of journals.

Preprints

Preliminary versions of scientific manuscripts that researchers share by posting to online platforms known as preprint servers before peer-review and publication in an academic journal.

Meeting Abstracts

Published abstracts of presentations held at a conference, symposium, or other professional gathering including, (but not limited to):

- Poster presentations
- Oral presentations
- Panel discussions

Adelhoefer S, Berning P, **Solomon SB**, **Maybody M**, Whelton SP, Blaha MJ, Dzaye O. Decreased public pursuit of cancer-related information during the COVID-19 pandemic in the United States. Cancer Causes Control. 2021;32(6):577-585. **PMCID: PMC7938033**

This study describes the decrease in cancer-related searches during the COVID-19 pandemic, beginning in March 2020. This decline mirrors the decline in cancer diagnoses during the same time frame.

Alboraie M, Piscoya A, Tran QT, **Mendelsohn RB**, Butt AS, Lenz L, Alavinejad P, Emara MH, Samlani Z, Altonbary A, Monged A, Lemmers A, Sudovykh I, Ho DQD, Ghazanfar S, Kamau E, Iqbal S, Tan DMY, Liao WC, Vignesh S, On behalf of "The Global Endo-COVID working group". The global impact of COVID-19 on gastrointestinal endoscopy units: An international survey of endoscopists. Journal of Gastroenterology. 2020 Sep;21(3):156-161.

PMCID: PMC7448955

A survey of 163 endoscopists in 48 countries found significant COVID-related declines in endoscopic procedures and a need to improve training on the use of personal protective equipment.

Algado-Sellés N, Gras-Valentí P, Chico-Sánchez P, Mora-Muriel JG, Soler-Molina VM, Hernández-Maldonado M, Lameiras-Azevedo AS, Jiménez-Sepúlveda NJ, Gómez-Sotero IL, Villanueva-Ruiz CO, Barrenengoa-Sañudo J, Fuster-Pérez M, Cánovas-Javega S, Cerezo-Milan P, Monerris-Palmer M, Esclapez A, Cartagena-Llopis L, García-Rivera C, Martínez-Tornero I, Nadal-Morante V, Merino-Lucas E, Rodriguez-Diaz JC, Vidal-Catala I,

Llorens-Soriano P, San Inocencio D, Gil-Carbonell J, Montiel-Higuero I, **Sánchez-Vela P**, Sánchez-Payá J. Frequency, associated risk factors, and characteristics of covid-19 among healthcare personnel in a Spanish health department. American Journal of Preventive Medicine. 2020;59(6):e221-e229. **PMCID: PMC7434331**

An observational study of 3,900 health-care personnel in a Spanish health department who showed symptoms or were in contact with a COVID-19 patient between March 2, 2020 and April 19, 2020.

Almassi N. Mulhall JP. Funt SA. Sheinfeld

J. 'Case of the Month' from Memorial Sloan Kettering Cancer Center, New York, NY, USA: Managing newly diagnosed metastatic testicular germ cell tumour in a COVID-19-positive patient. BJU International. 2020;126(3):333-335. PMCID: PMC7362031

A case report of a patient whose surgery was postponed due to a positive COVID screening test and the disease management considerations that followed.

Applebaum AJ, Sannes T, Mitchell HR, McAndrew NS, Wiener L, Knight JM, Nelson AJ, Gray TF, Fank PM, Lahijani SC, Pozo-Kaderman C, Rueda-Lara M, Miran DM, Landau H, Amonoo HL. Fit for duty: Lessons learned from outpatient and homebound hematopoietic cell transplantation to prepare family caregivers for home-based care. Transplant and Cellular Therapy. 2023;29(3):143-150. PMCID: PMC9780643

Background and recommendations for supporting and preparing caregivers delivering home-based care to hematopoietic cell transplantation (HCT) patients, informed by the COVID-19 pandemic.

Ardon O, Reuter VE, Hameed M, Corsale L, Manzo A, Sirintrapun SJ, Ntiamoah P, Stamelos E, Schueffler PJ, England C, Klimstra DS, Hanna MG. Digital pathology operations at an NYC tertiary cancer center during the first 4 months of COVID-19 pandemic response. Academic Pathology. 2021;8. PMCID:

PMC8819741

A description of how the pandemic impacted MSK's digital pathology workflow from March-June 2020.

Aslam A, Singh J, Robilotti E, Chow K, Bist T, Reidy-Lagunes D, Shah M, Korenstein D, Babady NE, Kamboj M. Severe acute respiratory syndrome coronavirus 2 surveillance and exposure in the perioperative setting with universal testing and personal protective equipment policies. Clinical Infectious Diseases. 2021;73(9):e3013-e3018. PMCID: PMC7665395

From a study conducted at MSKCC, this paper gives guidance on conducting pre-procedural COVID-19 testing. The article also highlights how critical personal protective equipment are in procedural settings.

Babady NE, Cohen B, McClure T, Chow K, Caldararo M, Jani K, McMillen T, Taur Y, Shah M, Robilotti E, Aslam A, Kamboj M. Variable duration of viral shedding in cancer patients with coronavirus disease 2019 (COVID-19). Infection Control and Hospital Epidemiology. 2022;43(10):1413-1415. PMCID: PMC8458847

A retrospective study of 105 cancer patients with COVID-19 infections found that patients with hematological cancers took longer to clear the infection and were likely infectious for longer than patients with solid tumors.

Babady NE, McMillen T, Jani K, Viale A, Robilotti EV, Aslam A, Diver M, Sokoli D, Mason G, Shah MK, Korenstein D, Kamboj M. Performance of severe acute respiratory syndrome coronavirus 2 real-time RT-PCR tests on oral rinses and saliva samples. Journal of Molecular Diagnostics. 2021;23(1):3-9. PMCID: PMC7670901

Between April and May 2020, the researchers compared COVID screening methods in MSK employees who were either showing symptoms or who had known disease exposure. They found SARS-CoV-2 detection from posterior oropharyngeal saliva, but not from oral rinses or mouthwashes, equivalent to detection from nasopharyngeal swabs.

Bakouny Z, Labaki C, Grover P, Awosika J, Gulati S, Hsu CY, Alimohamed SI, Bashir B, Berg S, Bilen MA, Bowles D, Castellano C, Desai A, Elkrief A, Eton OE, Fecher LA, Flora D, Galsky MD, Gatti-Mays ME, Gesenhues A, Glover MJ, Gopalakrishnan D, Gupta S, Halfdanarson TR, Hayes-Lattin B, Hendawi M, Hsu E, Hwang C, Jandarov R, Jani C, Johnson DB, Joshi M, Khan H, Khan SA, Knox N, Koshkin VS, Kulkarni AA, Kwon DH, Matar S, McKay RR, Mishra S, Moria FA, Nizam A, Nock NL, Nonato TK, Panasci J, Pomerantz L, Portuguese AJ, Provenzano D, Puc M, Rao YJ, Rhodes TD, Riely GJ, Ripp JJ, Rivera AV, Ruiz-Garcia E, Schmidt AL, Schoenfeld AJ, Schwartz GK, Shah SA, Shaya J, Subbiah S, Tachiki LM, Tucker MD, Valdez-Reyes M, Weissmann LB, Wotman MT, Wulff-Burchfield EM, Xie Z, Yang YJ, Thompson MA, Shah DP, Warner JL, Shyr Y, Choueiri TK, Wise-Draper TM, COVID-19 and Cancer Consortium. Interplay of immunosuppression and immunotherapy among patients with cancer and COVID-19. JAMA Oncology. 2023;9(1):128-134. **PMCID: PMC9634600**

A cohort study of 12,046 patients with cancer and COVID-19, with authors noting that findings suggest patients with baseline immunosuppression as well may experience worse outcomes when treated with immunotherapy or non-immunotherapy systemic anticancer therapy.

Bange EM, Han NA, Wileyto P, Kim JY, Gouma S, Robinson J, Greenplate AR, Hwee MA, Porterfield F, Owoyemi O, Naik K, Zheng C, Galantino M, Weisman AR, Ittner CAG, Kugler EM, Baxter AE, Onivide O, Agyekum RS, Dunn TG, Jones TK, Giannini HM, Weirick ME, McAllister CM, Babady NE, Kumar A, Widman AJ, DeWolf S, Boutemine SR, Roberts C, Budzik KR, Tollett S, Wright C, Perloff T, Sun L, Mathew D, Giles JR, Oldridge DA, Wu JE, Alanio C, Adamski S, Garfall AL, Vella LA, Kerr SJ, Cohen JV, Over RA, Massa R, Maillard IP, Maxwell KN, Reilly JP, Maslak PG, Vonderheide RH, Wolchok JD, Hensley SE, Wherry EJ, Meyer NJ, DeMichele AM, Vardhana SA, Mamtani R, Huang AC. CD8+ T cells contribute to survival in patients with COVID-19 and hematologic cancer. Nature Medicine. 2021;27(7):1280-1289. PMCID: PMC8291091

This study reports on a prospective observational cohort study of patients with cancer hospitalized with COVID-19 that found that CD8 T cells might influence recovery from COVID-19 when humoral immunity is deficient,

suggesting that CD8 T cell responses to vaccination might provide protection in patients with hematologic cancer in this situation.

Bates DDB, Vintonyak A, Mohabir R, Mahmood U, Soto P, Groeger JS, Ginsberg MS, Gollub MJ. Use of a portable computed tomography scanner for chest imaging of COVID-19 patients in the urgent care at a tertiary cancer center. Emergency Radiology. 2020;27(6):597-600. PMCID: PMC7280689

This article describes how MSK's urgent care used a portable CT scanner to get chest images of patients for evaluation of COVID-19.

Belkhatir Z, Estépar RSJ, **Tannenbaum AR**. Wasserstein-based texture analysis in radiomic studies. Computerized Medical Imaging and Graphics. 2022;102:102129.

A guidance document in the form of frequently asked questions that is based on current knowledge about COVID-19 vaccination in hematopoietic cell transplantation and chimeric antigen receptor T-cell recipients.

Bergstrom KL, Brander TE, **Breen KE**, Naik H. Experiences from the epicenter: Professional impact of the COVID-19 pandemic on genetic counselors in New York. American Journal of Medical Genetics. 2021;187(1):28-36.

PMCID: PMC7753596

In this study the authors anonymously surveyed 165 genetic counselors to assess the impact of the COVID-19 pandemic on their services. The article highlights the rapid shift to telegenetics and future recommendations, such as implementing a hybrid model.

Bethea TN, Zhai W, Zhou X, **Ahles TA**, Ahn J, Cohen HJ, Dilawari AA, Graham DMA, Jim HSL,

McDonald BC, Nakamura ZM, Patel SK, Rent-scher KE, **Root J**, Saykin AJ, Small BJ, Van Dyk KM, Mandelblatt JS, Carroll JE. Associations between longitudinal changes in sleep disturbance and depressive and anxiety symptoms during the COVID-19 virus pandemic among older women with and without breast cancer in the thinking and living with breast cancer study. Cancer Medicine. 2022;11(17):3352-3363. **PMCID: PMC9110906**

In this paper, the authors analyzed if older women with breast cancers and women without cancer had a similar response to lack of sleep because of the COVID-19 pandemic.

Bjerre Real C, Dhawan V, Sharma M, Seier K, Tan KS, Matsoukas K, Maloy M, Voigt L, Alici Y, Chawla S. Delirium in critically ill cancer patients with COVID-19. Journal of the Academy of Consultation-Liaison Psychiatry. 2022;63(6):539-547. PMCID: PMC9162788

This retrospective cohort single-center study looked at 70 critically ill cancer patients with a confirmed COVID-19 diagnosis over an approximate 4-month period early in the pandemic to evaluate their delirium frequency and outcomes. Results showed this study population had a high incidence of delirium and patients with delirium had higher hospital and ICU stays and ventilation days, however, no statistically significant difference in hospital mortality.

Bliss JW, Lavery JA, Underwood WP, Chun SS, Fickera GA, Lee CP, Corcoran S, Maloy MA, Polubriaginof FC, Kelly DW, Scott JM, Boutros PC, Moskowitz CS, Jones LW. Impact of exercise on susceptibility and severity of COVID-19 in patients with cancer: A retrospec-

tive study. Cancer Epidemiology Biomarkers and Prevention. 2022;31(5):1036-1042. **PMCID: PMC9135110**

Self-questionnaires of a mixed sample of cancer patients and survivors suggest that moderate exercise may lessen the risk of COVID-19 diagnosis compared to a more sedentary lifestyle, but does not impact disease severity.

Bolton KL, Koh Y, Foote MB, Im H, Jee J, Sun CH, Safonov A, Ptashkin R, Moon JH, Lee JY, Jung J, Kang CK, Song KH, Choe PG, Park WB, Kim HB, Oh MD, Song H, Kim S, Patel M, Derkach A, Gedvilaite E, Tkachuk KA, Wiley BJ, Chan IC, Braunstein LZ, Gao T, Papaemmanuil E, Esther Babady N, Pessin MS, Kamboj M, Diaz LA Jr, Ladanyi M, Rauh MJ, Natarajan P, Machiela MJ, Awadalla P, Joseph V, Offit K, Norton L, Berger MF, Levine RL, Kim ES, Kim NJ, Zehir A. Clonal hematopoiesis is associated with risk of severe COVID-19. Nature Communications. 2021;12:5975. PMCID: PMC8514469

This study used the sequencing data of CH (Clonal hematopoiesis)-associated genes and COVID-19 infection data of two patient cohorts: one composed of patients with solid tumors treated at MSK, and the other of previously healthy individuals without cancer who were hospitalized for COVID-19 at four tertiary hospitals in South Korea (KoCH cohort). The results suggested that there is a relationship between CH and risk of different types of severe infections, including risk of severe COVID-19.

Bradic M, Taleb S, Thomas B, Chidiac O, Robay A, Hassan N, Malek J, Ait Hssain A, Abi Khalil C. DNA methylation predicts the outcome of COVID-19 patients with acute respi-

ratory distress syndrome. Journal of Translational Medicine. 2022;20(1):526.

PMCID: PMC9652914

A study of 133 patients with acute respiratory distress syndrome (100 COVID-19 patients and 33 non-COVID-19 controls) to assess if COVID-19 infection could be complicated by this syndrome.

Breen KE, Tuman M, Bertelsen CE, Sheehan M, Wylie D, Fleischut MH, Offit K, Stadler ZK, Salo-Mullen EE, Hamilton JG. Factors influencing patient preferences for telehealth cancer genetic counseling during the COVID-19 pandemic. JCO Oncology Practice. 2022;18(4):e462-e471. PMCID: PMC9014422

This study surveyed 380 patients during the first 6 months of the pandemic about their experiences and preferences regarding their cancer genetic counseling clinic appointments provided as telehealth visits. Overall findings illustrated "...that as the pandemic progressed, patients expressed less concern regarding the quality of telehealth care and an increasing preference for and satisfaction with telehealth."

BrintzenhofeSzoc K, Krok-Schoen JI, Pisegna JL, MacKenzie AR, Canin B, Plotkin E, Boehmer LM, **Shahrokni A**. Survey of cancer care providers' attitude toward care for older adults with cancer during the COVID-19 pandemic. Journal of Geriatric Oncology. 2021;12(2):196-205. **PMCID: PMC7534786**

This study looks at the attitudes and barriers toward the care of older adults with cancer during COVID-19.

Bryan A, Tatem K, Diuguid-Gerber J, Cooke C, **Romanoff A**, Choudhury N, Scanlon M, Kishore P, Sydney E, Masci J, Bakshi P, Pemmasani S, Davis NJ, Maru D. Cross-sectional study evaluating the seroprevalence of SARS-CoV-2 antibodies among healthcare workers and factors associated with exposure during the first wave of the COVID-19 pandemic in New York. BMJ Open. 2021;11(11):e053158. **PMCID: PMC8572359**

This paper reports on the results of serological testing of 19,107 staff members (from 30 April to 30 June 2020) employed at New York City Health and Hospitals (NYC H+H) who also responded to a survey to assess demographic and occupational factors associated with serostatus.

Bunzli S, O'Brien P, Aston W, Ayerza MA, Chan L, Cherix S, de las Heras J, Donati D, Eyesan U, **Fabbri N**, Ghert M, Hilton T, Idowu OK, Imanishi J, Puri A, Rose P, Sabah D, Turcotte R, Weber K, Dowsey MM, Choong PFM. Life or limb: An international qualitative study on decision making in sarcoma surgery during the COVID-19 pandemic. BMJ Open. 2021;11(9):e04 7175. **PMCID: PMC8413468**

A survey of 18 sarcoma surgeons from 14 countries led to the development of a COVID-informed decision-making framework for patient care.

Burnett GW, Shah A, Fried EA, **Shah R**, Lai CY, Levin M. Using simulation to develop solutions for ventilator shortages from the epicenter. *Journal* of the Society for *Simulation* in *Healthcare*. 2021;16(1):78-79. **PMCID: PMC7853722**

This publication describes the work carried

out by the Mount Sinai Department of Anesthesiology's Human Emulation, Education and Evaluation Lab for Patient Safety and Professional Study (HELPS) in NYC. The authors make a strong case for the value of using the safe environment of simulation for testing devices and protocols before use on patients, especially during unprecedented emergency situations.

Burnett GW, Zhou G, Fried EA, **Shah RS**, Park C, Katz D. Intraoperative aerosol box use: Does an educational visual aid reduce contamination? Korean Journal of Anesthesiology. 2021;74(2):158-164. **PMCID: PMC8024202**

This paper reports on a randomized study of forty-four anesthesiology trainees and faculty who completed a simulated anesthetic case in order to determine if a preoperative educational visual aid led to improved decontamination practices during their use of an aerosol box (which was developed to minimize viral exposure during aerosolizing procedures during the COVID-19 pandemic).

Cazeau N. Interprofessional communication: Integrating evidence to enhance systems during a pandemic. Clinical Journal of Oncology Nursing. 2021;25(1):56-60.

This paper reviews the communication models and technologies that can be used to enhance interprofessional communication among teams, with a particular focus on the unique challenges presented by the COVID-19 pandemic.

Cazeau N. Social isolation: Managing psychological distress in hospitalized patients during the COVID-19 pandemic. Clinical Journal of

Oncology Nursing. 2020;24(5):472-474.

This article discusses the importance of assessing and managing the psychological distress of cancer inpatients receiving treatment during the COVID-19 pandemic, when social isolation may be exacerbated by visitation restrictions.

Chen M, Mohd Said N, Mohd Rais NC, Ho F, Ling N, Chun M, Ng YS, Eng WN, Yao Y, **Korc-Grodzicki B**, Pang A. Remaining agile in the COVID-19 pandemic healthcare landscape – How we adopted a hybrid telemedicine geriatric oncology care model in an academic tertiary cancer center. Journal of Geriatric Oncology. 2022;13(6):856-861. **PMCID: PMC9005364**

Nearly 85 percent of a cohort of 250 patients aged 65 and above of the National University Cancer Institute, Singapore (NCIS) were satisfied with a hybrid telemedicine care model.

Chen Y, Fei W, Wang Q, Zeng D, Wang Y. Dynamic COVID risk assessment accounting for community virus exposure from a spatial-temporal transmission model. Advances in Neural Information Processing Systems. 2021;34:27747-27760. **PMCID: PMC9394187**

This article proposes models and methods to assist public health decision-making and the clinical management of COVID-19 patients.

Chow K, Aslam A, McClure T, Singh J, Burns J, McMillen T, Jani K, Lucca A, Bubb T, Robilotti E V, Babady NE, Kamboj M. Risk of healthcare-associated transmission of sever acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in hospital-

ized cancer patients. Clinical Infectious Diseases. 2022;74(9):1579-1585. **PMCID: PMC8385815**

This study aimed at assessing the risk of hospital SARS-Cov-2 infection included hospitalized cancer patients not sick with COVID-19 at admission but diagnosed with coronavirus during their hospitalization. The study found that there was low risk of getting infected in the inpatient setting.

Chow R, **Simone CB 2nd**, Prsic EH, Shin HJ. Cost-effectiveness analysis of statins for the treatment of hospitalized COVID-19 patients. Annals of Palliative Medicine. 2022;11(7):2285-2290.

The authors of this paper underwent a cost-effectiveness study on using statins to treat patients hospitalized with COVID-19. They conclude that additional randomized controlled trials should be done on statins as they appear to be cost-effective candidates.

Chung DJ, Shah GL, Devlin SM, Ramanathan LV, Doddi S, Pessin MS, Hoover E, Marcello LT, Young JC, Boutemine SR, Serrano E, Sharan S, Momotaj S, Margetich L, Bravo CD, Papanicolaou GA, Kamboj M, Mato AR, Roeker LE, Hultcrantz M, Mailankody S, Lesokhin AM, Vardhana SA, Knorr DA. Disease- and therapy-specific impact on humoral immune responses to COVID-19 vaccination in hematologic malignancies. Blood Cancer Discovery. 2021;2(6):568-576. PMCID:

PMC8580617

A cohort of 551 leukemia, lymphoma, and multiple myeloma patients showed suppressed responses to COVID-19 vaccination compared to healthy controls.

Conforti C, Lallas A, Argenziano G, Dianzani C, Di Meo N, Giuffrida R, Kittler H, Malvehy J, **Marghoob AA**, Soyer HP, Zalaudek I. Impact of the COVID-19 Pandemic on Dermatology Practice Worldwide: Results of a Survey Promoted by the International Dermoscopy Society (IDS). Dermatology Practical & Conceptual. 2021;11(1):e2021153. **PMCID: PMC7875667**

A survey of 678 dermatologists in 52 countries found a decrease in the number of working days and skin cancer diagnoses and an increase in telemedicine visits during the pandemic.

COVIDSurg Collaborative. Preoperative nasopharyngeal swab testing and postoperative pulmonary complications in patients undergoing elective surgery during the SARS-CoV-2 pandemic. British Journal of Surgery. 2021;108(1):88-96. **PMCID: PMC7717156**

An international cohort study of 8,784 adult patients undergoing elective cancer surgery to evaluate the association between preoperative SARS-CoV-2 testing and postoperative pulmonary complications.

COVIDSurg Collaborative. Machine learning risk prediction of mortality for patients undergoing surgery with perioperative SARS-CoV-2: The COVIDSurg mortality score. British Journal of Surgery. 2021;108(11):1274-1292. **PMCID: PMC8344569**

This large international study used artificial intelligence to create a COVIDsurg Morality Score, a predictive score for mortality in surgical patients infected with SARS-CoV-2. The study concluded that it would be safe to restart the wide range of elective surgeries for patients for whom the score predicts low risk.

Crawford JM, Aguero-Rosenfeld ME, Aifantis I, Cadoff EM, Cangiarella JF, Cordon-Cardo C, Cushing M, Firpo-Betancourt A, Fox AS, Furuya Y, Hacking S, Jhang J, Leonard DGB, Libien J, Loda M, Mendu DR, Mulligan MJ, Nasr MR, Pecora ND, **Pessin MS**, Prystowsky MB, **Ramanathan LV**, Rauch KR, Riddell S, Roach K, Roth KA, Shroyer KR, Smoller BR, Spitalnik SL, Spitzer ED, Tomaszewski JE, Waltman S, Willis L, Sumer-King Z. The New York State SARS-CoV-2 Testing Consortium: Regional communication in response to the COVID-19 pandemic. Academic Pathology. 2021;8. **PMCID: PMC8107494**

Eleven academic medical institutions formed the New York State SARS-CoV-2 Testing Consortium in April 2020 to establish and improve communication at the height of the pandemic.

D'Agnillo F, Walters KA, Xiao Y, Sheng ZM, Scherler K, Park J, Gygli S, Rosas LA, Sadtler K, Kalish H, Blatti CA 3rd, Zhu R, Gatzke L, Bushell C, Memoli MJ, O'Day SJ, Fischer TD, Hammond TC, Lee RC, Cash JC, Powers ME, O'Keefe GE, Butnor KJ, Rapkiewicz AV, **Travis WD**, Layne SP, Kash JC, Taubenberger JK. Lung epithelial and endothelial damage, loss of tissue repair, inhibition of fibrinolysis, and cellular senescence in fatal COVID-19. Science Translational Medicine. 2021;13(620):eabj7790.

This article reports on the molecular, immunological, and pathological findings of a study of lung autopsy samples from 18 patients with fatal COVID-19 that may support the "... development of relevant disease markers and urgently needed therapeutics."

Dalv B. Lauria TS. Holland JC. Garcia J, Majeed J, Walters CB, Zablocki M, Chow K. Strachna O. Giles CE. Kelly MF. Housen A, Canavan M, Maresca NM, Baser R, Salvaggio R, Robson ME, Reidy-Lagunes DL. Oncology patients' perspectives on remote patient monitoring for COVID-19. JCO Oncology Practice. 2021;17(9):e1278-e1285. **PMCID:** PMC8457795

This study describes patient perspectives on remote monitoring at home of oncology patients for COVID-19 infections.

Das JP, Yeh R, Schöder H. Clinical utility of perfusion (Q)-single-photon emission computed tomography (SPECT)/CT for diagnosing pulmonary embolus (PE) in COVID-19 patients with a moderate to high pre-test probability of PE. European Journal of Nuclear Medicine and Molecular Imaging. 2021;48(3):794-799. PMCID: PMC7505736

This paper describes a study that included 33 patients and investigated the utility of using Q-SPECT/CT as an "...imaging modality for diagnosing PE in COVID-19 patients with a medium to high probability of PE."

Dayan I, Roth HR, Zhong A, Harouni A, Gentili A. Abidin AZ. Liu A. Costa AB. Wood BJ. Tsai CS. Wang CH, Hsu CN, Lee CK, Ruan P, Xu D, Wu D, Huang E, Kitamura FC, Lacey G, de Antônio Corradi GC, Nino G, Shih HH, Obinata H, Ren H. Crane JC. Tetreault J. Guan J. Garrett JW. Kaggie JD, Park JG, Dreyer K, Juluru K, Kersten K, Rockenbach MABC, Linguraru MG, Haider MA, AbdelMaseeh M, Rieke N, Damasceno PF, e Silva PMC, Wang P, Xu S, Kawano S, Sriswasdi S, Park SY, Grist TM, Buch V, Jantarabenjakul W, Wang W, Tak WY, Li X, Lin X, Kwon YJ, Quraini

A, Feng A, Priest AN, Turkbey B, Glicksberg B, Bizzo B, Kim BS, Tor-Díez C, Lee CC, Hsu CJ, Lin C, Lai CL, Hess CP, Compas C, Bhatia D, Oermann EK, Leibovitz E, Sasaki H, Mori H, Yang I, Sohn JH, Keshava Murthy KN, Fu LC, de Mendonça MRF, Fralick M, Kang MK, Adil M, Gangai N, Vateekul P, Elnajjar P, Hickman S. Maiumdar S. McLeod SL. Reed S. Gräf S. Harmon S, Kodama T, Puthanakit T, Mazzulli T, de Lavor VL. Rakvongthai Y. Lee YR. Wen Y. Gilbert FJ, Flores MG, Li Q. Federated learning for predicting clinical outcomes in patients with COVID-19. Nature Medicine. 2021;27(10):1735-1743. **PMCID: PMC9157510**

In this study, data from 20 institutions worldwide was used to train artificial intelligence models using a method called federated learning to predict the future oxygen requirements of symptomatic patients with COVID-19.

de Almeida JR, Noel CW, Forner D, Zhang H, Nichols AC, Cohen MA, Wong RJ, McMullen C, Graboyes EM, Divi V, Shuman AG, Rosko AJ, Lewis CM, Hanna EY, Myers J, Paleri V, Miles B, Genden E, Eskander A, Enepekides DJ, Higgins KM, Brown D, Chepeha DB, Witterick IJ. Gullane PJ. Irish JC. Monteiro E. Goldstein DP, Gilbert R. Development and validation of a Surgical Prioritization and Ranking Tool and Navigation Aid for Head and Neck Cancer (SPARTAN-HN) in a scarce resource setting: Response to the COVID-19 pandemic. Cancer, 2020:126(22):4895-4904. PMCID:

PMC7436362

This study defines an algorithm to fairly and consistently triage head and neck cancer patients that require surgery.

Delgado J, Siow S, de Groot J, McLane B, Hedlin

M. Towards collective moral resilience: The potential of communities of practice during the COVID-19 pandemic and beyond. Journal of Medical Ethics. 2021;47(6):374-382. PMCID: PMC7992383

This article explores the increased potential for moral distress in healthcare professionals during the COVID-19 pandemic. It introduces the new term 'collective moral resilience' to help conceptualize the impact of group settings on addressing potential moral distress experienced by healthcare professionals during trying and challenging times.

Desai AV, Michael CL, Kuperman GJ, Jordan G. Mittelstaedt H. Epstein AS. Connor M. Villar RPB, Bernal C, Kramer D, Davis ME, Chen Y. Malisse C. Markose G. Nelson JE. A novel patient values tab for the electronic health record: A user-centered design approach. Journal of Medical Internet Research. 2021:23(2):e21615. PMCID: PMC7929751

This article describes a unique approach at Memorial Sloan Kettering Cancer Center to making each patient's personal values visible to and readily accessible by their care providers. Information about each patient's personal health-related values were derived from nurse-led discussions with patients into their electronic health records. It is an example of real steps taken by a health care institution to put the patient values principle into practice.

Desai N, Neyaz A, Szabolcs A, Shih AR, Chen JH, Thapar V, Nieman LT, Solovyov A, Mehta A, Lieb DJ, Kulkarni AS, Jaicks C, Xu KH, Raabe MJ, Pinto CJ, Juric D, Chebib I, Colvin RB, Kim AY, Monroe R, Warren SE, Danaher P, Reeves JW, Gong J, Rueckert EH, Greenbaum BD,

Hacohen N, Lagana SM, Rivera MN, Sholl LM, Stone JR, Ting DT, Deshpande V. Temporal and spatial heterogeneity of host response to SARS-CoV-2 pulmonary infection. Nature Communications. 2020;11:6319. **PMCID: PMC7725958**

This analysis of 24 autopsy lung samples of patients who died of COVID supports two disease phases: one with high viral RNA, and one with low or undetectable viral RNA. The authors believe these to be distinct disease phases rather than different forms of the disease.

Devkota K, Schapira M, Perveen S, Khalili Yazdi A, Li F, Chau I, Ghiabi P, Hajian T, Loppnau P, Bolotokova A, Satchell KJF, **Wang K**, **Li D**, Liu J, Smil D, **Luo M**, Jin J, Fish P V, Brown PJ, Vedadi M. Probing the SAM binding site of SARS-CoV-2 Nsp14 in vitro using SAM competitive inhibitors guides developing selective bisubstrate inhibitors. SLAS Discovery. 2021;26(9):1200-1211. **PMCID: PMC8458670**

In this article, the authors describe the development of an assay to screen S-adenosylmethionine (SAM) competitive MTase inhibitors and SAM analogs with the hope of developing future drugs against COVID-19.

Di Gioacchino A, Legendre R, Rahou Y, Najburg V, Charneau P, **Greenbaum BD**, Tangy F, van der Werf S, Cocco S, Komarova AV. sgDI-tector: Defective interfering viral genome bioinformatics for detection of coronavirus subgenomic RNAs. RNA. 2022;28(3):277-289.

PMCID: PMC8848934

This article presents the development of a new bioinformatics tool, the sgDI-tector to detect sgRNA expression levels in COVID-19. Di Gioacchino A, Šulc P, Komarova AV, **Greenbaum BD**, Monasson R, Cocco S. The heterogeneous landscape and early evolution of pathogen-associated CpG dinucleotides in SARS-CoV-2. Molecular Biology and Evolution. 2021;38(6):2428-2445. **PMCID: PMC7928797**

To better understand how COVID-19 can induce acute respiratory syndrome in some patients, the authors conducted a genomic study using a model.

Dilawari A, Rentscher KE, Zhai W, Zhou X, **Ahles TA**, Ahn J, Bethea TN, Carroll JE, Cohen HJ, Graham DA, Jim HSL, McDonald B, Nakamura ZM, Patel SK, **Root JC**, Small BJ, Saykin AJ, Tometich D, Van Dyk K, Mandelblatt JS, Thinking and Living with Cancer Study. Medical care disruptions during the first six months of the COVID-19 pandemic: The experience of older breast cancer survivors. Breast Cancer Research and Treatment. 2021;190(2):287-293. **PMCID: PMC8436022**

This study investigated the types and factors associated with medical care disruptions experienced by participants in a longitudinal cohort of non-metastatic breast cancer survivors (aged 60–98) across five US regions. The study showed that there was a high rate of disruptions for this cohort during the first 6 months of the pandemic.

Elkrief A, Hennessy C, Kuderer NM, Rubinstein SM, Wulff-Burchfield E, Rosovsky RP, Vega-Luna K, Thompson MA, Panagiotou OA, Desai A, Rivera DR, Khaki AR, Tachiki L, Lynch RC, Stratton C, Elias R, Batist G, Kasi A, Shah DP, Bakouny Z, Cabal A, Clement J, Crowell J, Dixon B, Friese CR, Fry SL, Grover P, Gulati S, Gupta

S, Hwang C, Khan H, **Kim SJ**, Klein EJ, Labaki C, McKay RR, Nizam A, Pennell NA, Puc M, Schmidt AL, **Shahrokni A**, Shaya JA, Su CT, Wall S, Williams N, Wise-Draper TM, Mishra S, Grivas P, French B, Warner JL, Wildes TM, on behalf of the COVID-19 and Cancer Consortium. Geriatric risk factors for serious COVID-19 outcomes among older adults with cancer: A cohort study from the COVID-19 and Cancer Consortium. The Lancet Healthy Longevity. 2022;3(3):e143-e152. **PMCID: PMC8843069**

This observational study aimed at quantifying the association of a novel geriatric risk index, comprising patient age and other parameters, with COVID-19 severity and outcomes. The index was found to be able to help clinicians in identifying older adults most at risk for severe COVID-19.

Elmunzer BJ, Spitzer RL, Foster LD, Merchant AA, Howard EF, Patel VA, West MK, Qayed E, Nustas R, Zakaria A, Piper MS, Taylor JR, Jaza L, Forbes N, Chau M, Lara LF, Papachristou GI, Volk ML, Hilson LG, Zhou S, Kushnir VM, Lenyo AM, McLeod CG, Amin S, Kuftinec GN, Yadav D, Fox C, Kolb JM, Pawa S, Pawa R, Canakis A, Huang C, Jamil LH, Aneese AM, Glamour BK, Smith ZL, Hanley KA, Wood J, Patel HK, Shah JN, Agarunov E, Sethi A, Fogel EL, McNulty G, Haseeb A, Trieu JA, Dixon RE, Yang JY, Mendelsohn RB, Calo D, Aroniadis OC, LaComb JF, Scheiman JM, Sauer BG, Dang DT, Piraka CR, Shah ED, Pohl H, Tierney WM, Mitchell S, Condon A, Lenhart A, Dua KS, Kanagala VS, Kamal A, Singh VK, Pinto-Sanchez MI, Hutchinson JM, Kwon RS, Korsnes SJ, Singh H, Solati Z, Willingham FF, Yachimski PS, Conwell DL, Mosier E, Azab M, Patel A, Buxbaum J, Wani S, Chak A, Hosmer AE, Keswani RN, DiMaio CJ, Bronze

MS, Muthusamy R, Canto MI, Gjeorgjievski VM, Imam Z, Odish F, Edhi AI, Orosey M, Tiwari A, Patwardhan S, Brown NG, Patel AA, Ordiah CO, Sloan IP, Cruz L, Koza CL, Okafor U, Hollander T, Furey N, Reykhart O, Zbib NH, Damianos JA, Esteban J, Hajidiacos N, Saul M, Mays M, Anderson G, Wood K, Mathews L, Diakova G, Caisse M, Wakefield L, Nitchie H, Waljee AK, Tang W, Zhang Y, Zhu J, Deshpande AR, Rockey DC, Alford TB, Durkalski V, for the North American Alliance for the Study of Digestive Manifestations of COVID-19. Digestive manifestations in patients hospitalized with Coronavirus disease 2019. Clinical Gastroenterology and Hepatology. 2021;19(7):1355-1365.e4. PMCID: PMC7527302

The authors studied gastrointestinal symptoms among 1992 patients hospitalized with COVID-19 and found that most symptoms were mild and not an indicator of the severity of the disease.

Elnadoury O, **Beattie J**, Lubinsky AS. Uninterrupted continuous and intermittent nebulizer therapy in a COVID-19 patient using sequential vibratory mesh nebulizers: A case report. *Journal of Aerosol Medicine and Pulmonary Drug Delivery*. 2020;33(6):357-360.

This case report describes how to deliver continuous and intermittent nebulizer treatment without interruption in patients infected with SARS-CoV2 using two Aerogen vibratory mesh nebulizers.

Elsayes KM, Marks RM, Kamel S, Towbin AJ, Kielar AZ, Patel P, Chernyak V, Fowler KJ, Nassar S, Soliman MA, Kamaya A, Mendiratta-Lala M, Borhani AA, Fetzer DT, Fung AW, **Do RKG**, Bashir MR, Lee J, Consul N, Olmsted R, Kambadone A, Taouli B, Furlan A, Sirlin CB, Hsieh P. Online liver imaging course; Pivoting to transform radiology education during the SARS-CoV-2 pandemic. Academic Radiology. 2021;28(1):119-127. **PMCID: PMC7538097**

In the time of the COVID-19 pandemic, conferences and workshops had to switch from in-person to online. This article reports on the successes and challenges of an Online Liver Imaging Course (OLIC).

Emard N, Lynch KA, Liou KT, Atkinson T, Green AK, Daly B, Trevino K, Mao JJ. Virtual mind-body programming for

JJ. Virtual mind-body programming for patients with cancer during the COVID-19 pandemic: Qualitative study. JMIR Cancer. 2021;7(2):e27384. **PMCID:**

PMC8189285

This article reports on a study of 30 cancer patients who participated in a virtual mind-body program during the COVID-19 pandemic to determine the program's impact on the patients' psychosocial well-being. It demonstrated the program's potential for addressing behavioral, psychological, and social challenges faced by cancer patients.

Fiore MC, Smith SS, Adsit RT, Bolt DM, Conner KL, Bernstein SL, Eng OD, Lazuk D, Gonzalez A, Jorenby DE, D'Angelo H, Kirsch JA, Williams B, Nolan MB, Hayes-Birchler T, Kent S, Kim H, Piasecki TM, Slutske WS, Lubanski S, Yu M, Suk Y, Cai Y, Kashyap N, Mathew JP, McMahan G, Rolland B, Tindle HA, Warren GW, An LC, Boyd AD, Brunzell DH, Carrillo V, Chen LS, Davis JM, **Dilip D**, Ellerbeck EF, Iturrate E, Jose T, Khanna N, King A, Klass E, Newman M, Shoenbill KA, Tong E, Tsoh JY, Wilson KM, Theobald WE, Baker TB. The first 20 months of the

COVID-19 pandemic: Mortality, intubation and ICU rates among 104,590 patients hospitalized at 21 United States health systems. PLoS One. 2022;17(9):e0274571. **PMCID: PMC9518859**

Results of a study of 104,590 hospitalized adult COVID-19 patients to characterize changes in mortality, intubation, and intensive care unit admission rates during the first 20 months of the pandemic.

Fischer JC, Schmidt AG, Bölke E, Uhrberg M, Keitel V, Feldt T, Jensen B, Häussinger D, Adams O, Schneider EM, Balz V, Enczmann J, Rox J, Hermsen D, Schulze-Bosse K, Kindgen-Milles D, Knoefel WT, van Griensven M, Haussmann J, Tamaskovics B, Plettenberg C, Scheckenbach K, Corradini S, **Pedoto A**, Maas K, Schmidt L, Grebe O, Esposito I, Ehrhardt A, Peiper M, Buhren BA, Calles C, Stöhr A, Lichtenberg A, Freise NF, Lutterbeck M, Rezazadeh A, Budach W, Matuschek C. Association of HLA genotypes, ABO blood type and chemokine receptor 5 mutant CD195 with the clinical course of COVID-19. European Journal of Medical Research. 2021;26:107. **PMCID:**

PMC8444184

This exploratory observational study followed 157 adult COVID-19 convalescent patients to try to better understand the immune mechanisms underlying the variability in COVID-19 clinical courses by identifying immunogenetic background characteristics and evaluating whether they are associated with reduced or increased severity of the disease.

Fisher CL, Wright KB, Hampton CN, Vasquez TS, Kastrinos A, **Applebaum AJ**, Sae-Hau M, Weiss ES, Lincoln G, Bylund CL. Blood cancer caregiving during COVID-19: understanding

caregivers' needs. Translational Behavioral Medicine. 2021;11(5):1187-1197. **PMCID: PMC8194588**

This article reports on the results of a survey of adult child caregivers caring for a parent diagnosed with a blood cancer during the COVID-19 pandemic. This study revealed the patterns of uncertainty caregivers experienced and established the need for the supportive services to help caregivers provide care and deal with the psychological burden experienced during the global health crisis.

Foote MB, White JR, Jee J, Argilés G, Wan JCM, Rousseau B, Pessin MS, Diaz LA Jr. Association of antineoplastic therapy

with decreased SARS-CoV-2 infection rates in patients with cancer. JAMA Oncology. 2021;7(11):1686-1691. **PMCID:**

PMC8377603

Cancer patients on mTOR/PI3K inhibitors and antimetabolites showed reduced SARS-CoV-2 positivity rates than those treated with other therapies.

Fotopoulou C, Khan T, Bracinik J, Glasbey J, **Abu-Rustum N**, Chiva L, Fagotti A, Fujiwara K, Ghebre R, Gutelkin M, Konney TO, Ng J, Pareja R, Seenivasagam RK, Sehouli J, Surappa S, Bhangu A, Leung E, Sundar S; CovidSurg Gynecological Cancer Collaborators. Outcomes of gynecologic cancer surgery during the COVID-19 pandemic: An international, multicenter, prospective CovidSurg-Gynecologic Oncology Cancer study. American Journal of Obstetrics and Gynecology. 2022;227(5):735. e1-735.e25. **PMCID: PMC9242690**

The CovidSurg-Cancer Consortium studied the impact of COVID-19 on delay-

ing surgeries for gynecologic cancer. The prospective cohort study was conducted internationally in 227 centers.

Frank MO, Blachere NE, Parveen S, Hacisuleyman E, Fak J, Luna JM, Michailidis E, Wright S, Stark P, Campbell A, Foo A, Sakmar TP, Huffman V, Bergh M, Goldfarb A, Mansisidor A, Patriotis AL, Palmquist KH, Poulton N, Leicher R, Vargas CDM, Duba I, Hurley A, Colagreco J, Pagane N, Orange DE, Mora K, Rakeman JL, Fowler RC, Fernandes H, Lamendola-Essel MF, Didkovsky N, Silvera L, Masci J, Allen M, Rice CM, Darnell RB. DRUL for school: Opening Pre-K with safe, simple, sensitive saliva testing for SARS-CoV-2. PLoS ONE. 2021;16(6):e0252949.

The authors report their results in this study on validating a PCR-based saliva assay, the Darnell Rockefeller University Laboratory (DRUL) saliva assay, in a preschool program setting.

Freise NF, Kivel M, Grebe O, Meyer C, Wafaisade B, Peiper M,Zeus T, Schmidt J, Neuwahl J, Jazmati D, Luedde T, Bölke E, Feldt T, Jensen BEO, Bode J, Keitel V, Haussmann J, Tamaskovics B, Budach W, Fischer JC, Knoefel WT, Schneider M, Gerber PA, **Pedoto A**, Häussinger D, van Griensven M, Rezazadeh A, Flaig Y, Kirchner J, Antoch G, Schelzig H, Matuschek C. Acute cardiac side effects after COVID-19 mRNA vaccination: A case series. European Journal of Medical Research. 2022;27:80.

PMCID: PMC9160507

This paper reports on "...a case series of eight consecutive patients with cardiac side effects after inoculation of either the first or the second dose of a mRNA vaccine against SARS-CoV-2." Study participants were young

and healthy with no pre-vaccination cardiac history, however, study results suggested that "...cardiac adverse events such as myocarditis or pericarditis shortly after SARS-CoV-2 mRNA vaccination are rare but possible and occur particularly in male patients."

Friedman DN, Blackler L, Alici Y, Scharf AE, Chin M, Chawla S, James MC, Voigt LP. COVID-19-related ethics consultations at a cancer center in New York City: A content review of ethics consultations during the early stages of the pandemic. JCO Oncology Practice. 2021;17(3):e369-e376. PMCID: PMC8258018

Clinical ethics consultations in a hospital setting are important at addressing ethical issues that occur in the course of patient care and which concerns clinicians, patients and/or patients' families. This article reviewed Memorial Sloan Kettering Cancer Center clinical ethics consultations that took place in the early and most difficult months of the COVID-19 pandemic, when totally new challenges faced society and cancer care.

Galindo-Vázquez O, Ramírez-Orozco M, **Costas-Muñiz R**, Mendoza-Contreras LA, Calderillo-Ruíz G, Meneses-García A. Symptoms of anxiety, depression and self-care behaviors during the COVID-19 pandemic in the general population. Gaceta Medica de Mexico. 2020;156(4):298-305. **PMCID:**

PMC8327400

This article studied the impact of COVID-19 on anxiety, depression, and self-care behaviors. The results were analyzed from online surveys answered by 1508 participants.

Gany F, Mirpuri S, Kim SY, Narang B, Ramirez J, Roberts-Eversley N, Ocampo A, Aragones A, Leng J. Predictors of health insurance, life insurance, and retirement savings among NYC's immigrant taxi and for-hire vehicle drivers. Journal of Community Health. 2020;45(6):1098-1110. PMCID: PMC7429200

Results of a survey of 422 taxi and for-hire vehicle drivers in the New York City metropolitan

area to examine health and financial planning behaviors, including the impact of COVID-19.

Generali D, Bosio G, Malberti F, Cuzzoli A, Testa S, Romanini L, Fioravanti A, Morandini A, Pianta L, Giannotti G, Viola EM, Pier-Franceschi MG, Foramitti M, Tira RA, Zangrandi I, Chiodelli G, Machiavelli A, Cappelletti MR, Giossi A, De Giuli V, Costanzi C, Campana C, Bernocchi O, Sirico M, Zoncada A, Molteni A, Venturini S, Giudici F, **Scaltriti M**, Pan A. Canakinumab as treatment for COVID-19-related pneumonia: A prospective case-control study. *International Journal of Infectious Diseases*. 2021;104:433-440.

PMCID: PMC7771302

This study evaluated the efficacy and safety of the drug canakinumab in patients with moderate COVID-19-related pneumonia. The drug showed promise in decreasing the need for invasive mechanical ventilation in prevention of clinical deterioration of patients with COVID-19 pneumonia, leading to earlier hospital discharge and better prognosis.

Givi B, Moore MG, Bewley AF, Coffey CS, **Cohen MA**, Hessel AC, Jalisi S, Kang S, Newman JG,
Puscas L, Shindo M, Shuman A, Thakkar P, Weed
DT, Chalian A. Advanced head and neck surgery
training during the COVID-19 pandemic. Head &
Neck. 2020;42(7):1411-1417. **PMCID: PMC8963463**

In this study, authors surveyed head and neck fellows and accredited program directors to assess the impact of COVID-19 on head and neck surgical training. They conclude that "... current trainees appear well-positioned to achieve expertise before entering practice."

Glance LG, Chandrasekar EK, Shippey E, Stone PW, Dutton R, **McCormick PJ**, Shang J, Lustik SJ, Wu IY, Eaton MP, Dick AW. Association between the COVID-19 pandemic and disparities in access to major surgery in the US. JAMA Network Open. 2022;5(5):e2213527. **PMCID: PMC9127559**

The Centers for Medicare & Medicaid Services (CMS) forced hospitals to stop performing nonessential surgeries during the first wave of COVID-19 in the United States. This study of nearly 3.5 million patients across 719 hospitals found that racial minority groups were not disproportionately impacted by the moratorium.

Glance LG, Dick AW, Shippey E, **McCormick PJ**, Dutton R, Stone PW, Shang J, Lustik SJ, Lander HL, Gosev I, Joynt Maddox KE. Association between the COVID-19 pandemic and insurance-based disparities in mortality after major surgery among US adults. JAMA Network Ope n. 2022;5(7):e2222360. **PMCID: PMC9294995**

A cross-sectional study of 2,950,147 adults undergoing major surgery to compare changes in mortality in this population across insurance types, with authors noting that findings suggest the early phase of the COVID-19 pandemic was not associated with increases in insurance-based disparities.

Glasbey JC, Nepogodiev D, Simoes JFF, Omar

O, Li E, Venn ML, Abou Chaar MK, Capizzi V, Chaudhry D, Desai A, Edwards JG, Evans JP, Fiore M, Videria JF, Ford SJ, **Ganly I**, Griffiths EA, Gujjuri RR, Kolias AG, Kaafarani HMA, Minaya-Bravo A, McKay SC, Mohan HM, Roberts KJ, Miguel-Méndez CS, Pockney P, Shaw R, Smart NJ, Stewart GD, Sundar S, Vidya R, Bhangu AA, on behalf of the COVIDSurg Collaborative. Elective cancer surgery in COVID-19-free surgical pathways during the SARS-cov-2 pandemic: An international, multicenter, comparative cohort study. Journal of Clinical Oncology. 2021;39(1):66-78. **PMCID:**

PMC8189635

This study analyzes pulmonary complication rates in elective cancer surgeries conducted in multiple centers internationally during the pandemic. Those centers were following surgical pathways.

Goldberg-Stein S, Fink A, **Paroder V**, Kobi M, Yee J, Chernyak V. Abdominopelvic CT findings in patients with novel coronavirus disease 2019 (COVID-19). Abdominal *Radiology*. 2020;45(9):2613-2623. **PMCID: PMC7406871**

According to this study, 57% of COVID-19-positive patients yielded positive findings on CT scans of the abdomen and pelvis. The hope is that this study will better be able to reveal why some COVID-19 patients experience abdominal symptoms and some do not.

Gonzalez AA, Olsen EL, Killeen SZ, Blair RV, Seshan SV, **Jaimes EA**, Roy CJ, Prieto MC. Elevated soluble urokinase plasminogen activator receptor is associated with renal dysfunction in a Chlorocebus atheiops COVID-19 model. Journal of Medical Primatology. 2023;52(2):131-134. **PMCID: PMC10023264**

A case report that describes the measurements of soluble urokinase plasminogen activator receptor in an African green monkey infected with SARS-CoV-2, with authors noting findings suggest elevated levels of this receptor may be associated with renal dysfunction and pathology in the context of COVID-19.

Gras-Valenti P, Mora-Muriel JG, Chico-Sánchez P. Algado-Sellés N. Soler-Molina VM. Hernández-Maldonado M, Lameiras-Azevedo AS. Jiménez Sepúlveda NJ. Gómez Sotero IL. Villanueva-Ruiz CO, Barrenengoa-Sañudo J, Fuster-Pérez M, Cánovas-Jávega S, Cerezo-Milan P, Monerris-Palmer M, Llorens-Soriano P, Merino-Lucas E. Rodríguez-Diaz JC. Gil-Carbonell J, Sánchez-Martínez R, Pastor-Cesteros R, Mena-Esquivias L, Galiana-Ivars M, Jaime-Sánchez FA, Margarit-Ferri C, Gonzalez-deDios J, Lloret G, García-Alonso MA, **Sánchez-Vela** P. Sánchez-Payá J. Effectivity of a program for the control and prevention of COVID-19 healthcare-associated infections in a Spanish academic hospital. Journal of Patient Safety. 2021;17(4):323-330. PMCID: PMC8132911

This study of healthcare worker exposure to COVID recommended the continuous wearing of surgical masks in both patient and staff areas of the hospital.

Halley MC, Mathews KS, **Diamond LC**, Linos E, Sarkar U, Mangurian C, Sabry H, Goyal MK, Olazo K, Miller EG, Jagsi R, Linos E. The intersection of work and home challenges faced by physician mothers during the coronavirus disease 2019 pandemic: A mixed-methods analysis. Journal of Women's Health. 2021;30(4):514-524. **PMCID: PMC8182656**

This study reports on the results of an online survey administered to the Physician Moms Group (PMG) and PMG COVID-19 Subgroup on Facebook, to understand their work-related and home life concerns during the COVID-19 pandemic. The survey results demonstrated that the concerns of physicians varied somewhat depending on their work settings (e.g. frontline vs non-frontline physicians) and family situation (e.g., children of certain ages).

Han Y, Tan L, **Zhou T**, Yang L, Carrau L, Lacko LA, Saeed M, Zhu J, Zhao Z, Nilsson-Payant BE, Lira Neto FT, Cahir C, Giani AM, Chai JC, Li Y, Dong X, Moroziewicz D; NYSCF Global Stem Cell Array Team, Paull D, Zhang T, Koo S, Tan C, Danziger R, Ba Q, Feng L, Chen Z, **Zhong A**, Wise GJ, Xiang JZ, Wang H, Schwartz RE, tenOever BR, Noggle SA, Rice CM, Qi Q, Evans T, Chen S. A human iPSC-array-based GWAS identifies a virus susceptibility locus in the NDUFA4 gene and functional variants. Cell Stem Cell. 2022;29(10):1475-1490.e6. **PMCID: PMC9550219**

A description of a screening strategy to link human genetics with viral infectivity using human-induced pluripotent stem cells (hiPSC) with SARS-CoV-2 infection were discussed.

Hanna MG, Reuter VE, Ardon O, Kim D, Sirintrapun SJ, Schüffler PJ, Busam KJ, Sauter JL, Brogi E, Tan LK, Xu B, Bale T, Agaram NP, Tang LH, Ellenson LH, Philip J, Corsale L, Stamelos E, Friedlander MA, Ntiamoah P, Labasin M, England C, Klimstra DS, Hameed M. Validation of a digital pathology system including remote review during the COVID-19 pandemic. Modern Pathology. 2020;33(11):2115-2127. PMCID: PMC7306935

This randomized, prospective study is the first validation of a digital pathology system from a remote non-CLIA (Clinical Laboratory Improvement Amendments) certified facility. Researchers found a major concordance rate of 100% comparing remote review and reporting of whole slide images to conventional microscopy.

Harrell Shreckengost CS, Foianini JE, Moron Encinas KM. Tola Guarachi H. Abril K. Amin D. Berkowitz D, Castater CA, Douglas JM, Grant AA. Khullar OV. Lane AN. Lin A. Niroula A. Nizam A, Rashied A, Reitz AW, Roser SM, Spychalski J. Arap SS. Bento RF. Ciaralo PPD. Imamura R. Kowalski LP, Mahmoud A, Mariani AW, Menegozzo CAM, Minamoto H, Montenegro FLM, Pêgo-Fernandes PM, Santos J Jr, Utiyama EM, Sreedharan JK. Kalchiem-Dekel O. Nguven J, Dhamsania RK, Allen K, Modzik A, Pathak V, White C, Blas J, Talal El-Abur I, Tirado G, Yánez Benítez C, Weiser TG, Barry M, Boeck M, Farrell M, Greenberg A, Miller P, Park P, Camazine M, Dillon D, Smith RN. Outcomes of early versus late tracheostomy in patients with COVID-19: A multinational cohort study. Critical Care Explorations. 2022;4(11):e0796. PMCID:

PMC9681622

Results of an international multi-institute retrospective cohort study of 549 hospitalized COVID-19 patients to compare outcomes in those who underwent tracheostomy within 14 days of intubation versus more than 14 days after intubation.

Harrington CA, Hsu M, Tan KS, Medina B, Boerner T, Adusumilli PS, Bains MS, Bott MJ, Isbell JM, Park BJ, Sihag S, Rusch VW, Jones DR, Rocco G, Molena D. Translating telemedicine to thoracic surgical oncological

care: Performance analysis and patient perceptions during the COVID-19 pandemic. Annals of Surgery. 2022. Epub ahead of print. PMCID: PMC9810766

This single-institution study compared patient characteristics, outcomes data, and survey data from a 4-month period (March-June) in 2019 and in 2020 to examine how the COVID-19 pandemic affected care for patients undergoing thoracic surgery for cancer, particularly with respect to the adoption of telemedicine.

Haynes RM, Sirintrapun SJ, Gao J, McKenzie AJ. Using technology to enhance cancer clinical trial participation. American Society of Clinical Oncology Educational Book. 2022;42:1-7.

A description of how the COVID-19 pandemic impacted cancer clinical trials at Memorial Sloan Kettering Cancer Center, the Sarah Cannon Research Institute, the U.S. Food and Drug Administration Oncology Center of Excellence, and for a patient diagnosed with early-stage breast cancer.

Herishanu Y, Avivi I, Aharon A, Shefer G, Levi S, Bronstein Y, Moshiashvili MM, Ziv-Baran T, Shorer Y, Scarfo L, Joffe E, Perry C, Ghia P. Efficacy of the BNT162b2 mRNA COVID-19 vaccine in patients with chronic lymphocytic leukemia. Blood. 2021:137(23):3165-3173. **PMCID: PMC8061088**

About 40% of patients with chronic lymphocytic leukemia (66/167) showed an immune response to the Pfizer mRNA vaccine. Those who had a response tended to be younger, at an earlier disease stage, treatment naïve, or a year or more post-treatment.

Hill M V, Ross EA, Crawford D, Lai L, Turaga K, Grubbs EG, Mullen J, Dineen S, D'Angelica M, Reddy S, Farma JM. Program and candidate experience with virtual interviews for the 2020 Complex General Surgical Oncology interview season during the COVID pandemic. American Journal of Surgery. 2021;222(1):99-103.

This article examines the virtual experience of program directors and candidates via surveys during the 2020 Complex General Surgical Oncology interview season.

Hoff NP. Freise NF. Schmidt AG. Firouzi-Memarpuri P, Reifenberger J, Luedde T, Bölke E, Meller S. Homey B. Feldt T. Jensen BEO. Keitel V, Schmidt L, Maas K, Haussmann J, Tamaskovics B, Budach W, Fischer JC, Buhren BA, Knoefel WT, Schneider M, Gerber PA, Pedoto A, Häussinger D, Grebe O, van Griensven M, Braun SA, Salzmann S, Rezazadeh A, Matuschek C. Delayed skin reaction after mRNA-1273 vaccine against SARS-CoV-2: A rare clinical reaction. European Journal of Medical Research. 2021;26:98. PMCID: PMC8386154

Delayed skin reactions, appearing days after the first or second dose of the Moderna vaccine, are rare, benign, and treatable with topical glucocorticosteroids or oral antihistamines.

Hoffmann HH. **Sànchez-Rivera FJ**. Schneider WM, Luna JM, Soto-Feliciano YM, Ashbrook AW. Le Pen J. Leal AA. Ricardo-Lax I. Michailidis E, Hao Y, Stenzel AF, Peace A, Zuber J, Allis CD, Lowe SW, MacDonald MR, Poirier JT, Rice CM. Functional interrogation of a SARS-CoV-2 host protein interactome identifies unique and shared coronavirus host factors. Cell Host & Microbe. 2021:29(2):267-280. PMCID: PMC7833927

In this article, the authors identified SARS-CoV-2 host proteins and their results were

organized in a library to help develop possible COVID-19 drug treatments.

Hohl SD. Shoenbill KA. Taylor KL. Minion M, Bates-Pappas GE, Hayes RB, Nolan MB, Simmons VN, Steinberg MB, Park ER, Ashing K, Beneventi D, Cox LS, Goldstein AO, King A, Kotsen C, Presant CA, Sherman SE, Sheffer CE, Warren GW, Adsit RT, Bird JE, D'Angelo H, Fiore MC, Nguyen CVT, Pauk D, Rolland B. Rigotti NA. The impact of the COVID-19 pandemic on tobacco treatment program implementation at National Cancer Institute-designated cancer centers. Nicotine & TobaccoResearch.2023;25(2):345-349.**PMCID:**

PMC9384385

This article reports how 34 centers participating in tobacco cessation treatments adapted to the changes needed because of COVID-19. As a result, they had to shift to telehealth services rapidly.

Horvat JV, Sevilimedu V, Becker AS, Perez-Johnston R, Yeh R, Feigin KN. Frequency and outcomes of MRI-detected axillary adenopathy following COVID-19 vaccination. European Radiology. 2022;32(8):5752-5758. PMCID: PMC8897548

A retrospective cohort study of 357 patients who underwent breast magnetic resonance imaging (MRI) following COVID-19 vaccination between January 22, 2021 and March 21, 2021.

Horvat N. Alves Pinto PV. Arauio-Filho JAB. Santos JMMM, Dias AB, Miranda JA, de Oliveira CV, Barbosa CS, Morais TC, AN Assuncao Jr, Nomura CH, Cavalcante Viana PC. Abdominal gastrointestinal imaging findings on computed tomography in patients with COVID-19 and

correlation with clinical outcomes. European Journal of Radiology Open. 2021;8:100326.

PMCID: PMC7816627

In this retrospective study, the authors studied abdominal imaging in 81 COVID-positive patients to study intestinal abnormalities and clinical outcomes.

Ikemura K, Bellin E, **Yagi Y**, Billett H, Saada M, Simone K, Stahl L, Szymanski J, Goldstein DY, Gil MR. Using automated machine learning to predict the mortality of patients with COVID-19: Prediction model development study. Journal of Medical Internet Research. 2021;23(2):e23458.

PMCID: PMC7919846

This research study looked at automated machine learning to create algorithms to predict a patient's chances of surviving COVID-19 infection, looking at a variety of variables including vital signs, comorbidities, and biomarkers.

luga AC, Marboe CC, Yilmaz MM, Lefkowitch JH, **Gauran C**, Lagana SM. Adrenal vascular changes in covid-19 autopsies. Archives of Pathology & Laboratory Medicine. 2020;144(10):1159-1160.

This article reports on the "...pathological findings in the adrenal glands of the first five post-mortem examinations of patients with COVID-19 diagnosed on clinical grounds with confirmatory real-time polymerase chain reaction testing of nasopharyngeal swab." The authors consider the potential role of adrenal function in the pathogenesis of COVID-19 disease.

Jacob RP, Flynn J, Devlin SM, Maloy M, Giralt SA, Maslak P, O'Reilly RJ, Tonon JA, Perales MA, Avecilla ST, Cho C. Universal engraftment after allogeneic hematopoietic cell transplantation using cryopreserved CD34-selected grafts. Transplantation and Cellular Therapy. 2021;27(8):697.e1-697.e5. PMCID: PMC8316317

Since the COVID-19 pandemic has resulted in most medical centers using cryopreserved grafts for allogeneic hematopoietic cell transplantation, this single-center analysis of adult patients with hematologic malignancies who underwent allo-HCT with cryopreserved CD34-selected allo-HCT grafts is timely as it demonstrates that cryopreservation of CD34+ HPC grafts used in allo-HCT is a safe and practical option during COVID-19 times.

Jee J, Stonestrom AJ, Devlin S, Nguyentran T, Wills B, Narendra V, Foote MB, Lumish M, Vardhana S, Pastores SM, Korde N, Patel D, Horwitz S, Scordo M, Daniyan A. Oncologic immunomodulatory agents in patients with cancer and COVID-19. Scientific Reports. 2021;11(1):4814. PMCID: PMC7921444

This study provides a retrospective analysis investigating the effects of oncologic immunomodulatory agents on 820 adult cancer patients (inpatient or outpatient) seen at MSK who were diagnosed with COVID-19 between March 8, 2020 and June 2, 2020.

Jee J, Foote MB, Lumish M, Stonestrom AJ, Wills B, Narendra V, Avutu V, Murciano-Goroff YR, Chan JE, Derkach A, Philip J, Belenkaya R, Kerpelev M, Maloy M, Watson A, Fong C, Janjigian Y, Diaz LA Jr, Bolton KL, Pessin MS. Chemotherapy and COVID-19 outcomes in patients with cancer. Journal of Clinical Oncology. 2020;38(30):3538-3546. PMCID: PMC7571792

In this retrospective study, the authors

analyzed the influence of receiving anti-cancer treatments and other cancer-related features on the severity of COVID-19.

Jeon H, You SC, Kang SY, Seo SI, Warner JL, **Belenkaya R**, Park RW. Characterizing the anticancer treatment trajectory and pattern in patients receiving chemotherapy for cancer using harmonized observational databases: Retrospective study. JMIR Medical Informatics. 2021;9(4):e25035. **PMCID: PMC8058693**

The authors present a technique to generate chemotherapy episodes to make data more discoverable so researchers can compare treatments for patients with cancer.

Jiang J, Tyagi N, Tringale K, Crane C, Veeraraghavan H. Self-supervised 3D anatomy segmentation using self-distilled masked image transformer (SMIT). Medical Image Computing and Computer Assisted Intervention. 2022;13434:556-566. PMCID: PMC9714226

This conference paper describes an image modeling method developed with 3,643 computed tomography scans arising from head and neck, lung, and kidney cancers as well as COVID-19.

Jimenez-Kurlander L, Antal Z, DeRosa A, Diotallevi D, Pottenger E, Wilson N, Corcoran S, Boulad F, Friedman DN. COVID-19 in pediatric survivors of childhood cancer and hematopoietic cell transplantation from a single center in New York City. Pediatric Blood & Cancer. 2021;68(3):e28857. PMCID: PMC7883208

In this paper, the authors analyzed COVID-19 infections among pediatric survivors of

childhood cancer followed at Memorial Sloan Kettering Cancer Center and concluded from their preliminary data that "...childhood cancer survivors appear to be at relatively low risk for COVID-19 complications."

Kalchiem-Dekel O, Schwalk AJ, Patel NM, Lin IH, Beattie JA, Husta BC, Chawla M, Sachdeva A, Akulian JA, Musani Al, Argento AC, Lee HJ, Mullon JJ, Desai NR, Hsia DW, Lee RP. COVID-19 impact on interventional pulmonology training. ATS Scholar. 2021;2(2):236-248. PMCID: PMC8362793

This article describes the challenges faced by such a hands-on area of medical education as interventional pulmonology. The analysis of the challenges and solutions found could be useful for addressing similar situations in the future.

Kim SJ, Fessele KL, Tin AL, Malling C, Litchfield H, Korc-Grodzicki B, Shahrokni A. The association between Memorial Sloan Kettering Frailty Index with 30-day survival among patients aged ≥ 75 with cancer and COVID-19. Journal of Geriatric Oncology. 2022;13(4):416-419. PMCID: PMC8687748

This study underscored the importance of frailty screening in the care management of older COVID-19 patients with cancer.

Kiviniemi MT, Orom H, **Hay JL**, Waters EA. Prevention is political: Political party affiliation predicts perceived risk and prevention behaviors for COVID-19. BMC Public Health. 2022;22:298. **PMCID: PMC8842925**

In this study, the authors surveyed 410 participants to assess if political affiliation impacted risk perception regarding COVID-19. They found that people affiliated with the

Republican party were most likely to have a lower perceived risk for themselves and others and less likely to engage in preventive behavior toward COVID-19.

Klima M, Yazdi AK, Li F, Chau I, Hajian T, Bolotokova A, Kaniskan HU, YHan Y, **Wang K**, **Li D**, **Luo M**, Jin J, Boura E, Vedadi M. Crystal structure of SARS-CoV-2 nsp10-nsp16 in complex with small molecule inhibitors, SS148 and WZ16. Protein Science. 2022 Sep;31(9):e4395. **PMCID: PMC9375521**

This article presents research on the crystal structure of SARS-CoV-2 that may help in the development of more potent antiviral therapeutics against coronaviruses.

Klugman M, **Patil S, Gany F, Blinder V**. Vulnerabilities in workplace features for essential workers with breast cancer: Implications for the COVID-19 pandemic. Work. 2022;71(4):815-823. **PMCID: PMC9578109**

In this study looking at the workplace environment of essential workers, data on a cohort of 563 women who underwent breast cancer treatment between 2010-2018 was analyzed based on whether they were essential or non-essential workers and other characteristics.

Kotsen C, Dilip D, Carter-Harris L, O'Brien M, Whitlock CW, de Leon-Sanchez S, Ostroff JS. Rapid scaling up of telehealth treatment for tobacco-dependent cancer patients during the COVID-19 outbreak in New York City. Telemedicine and e-Health. 2021;27(1):20-29. PMCID: PMC7815064

This article describes Memorial Sloan Ket-

tering Cancer Center's successful transitioning from in-person smoking cessation counseling, to telehealth treatment for tobacco dependent cancer patients during COVID-19 pandemic.

Krebs S, Petkovska I, Ho AL, Ulaner GA. Laboratory-proven asymptomatic SARS-CoV-2 (COVID-19) infection on (18)F-FDG PET/CT. Clinical Nuclear Medicine. 2020;45(8):654-655. PMCID: PMC7268849

This case report describes a cancer patient in an outpatient setting whose COVID-19 infection diagnosis was made during a cancer imaging procedure. The accidental finding of COVID-19-related pneumonia in a cancer patient without COVID-19 symptoms stresses the necessity to test outpatient cancer patients, even those not displaying COVID symptoms.

Krok-Schoen JL, Pisegna JL, BrintzenhofeSzoc K, MacKenzie AR, Canin B, Plotkin E, Boehmer LM, **Shahrokni A**. Experiences of healthcare providers of older adults with cancer during the COVID-19 pandemic. Journal of Geriatric Oncology. 2021;12(2):190-195. **PMCID**:

PMC7500913

This article examines the experiences and challenges of healthcare providers to care for older adults with cancer during COVID-19.

Kushnir VM, Berzin TM, Elmunzer BJ, **Mendelsohn RB**, Patel V, Pawa S, Smith ZL, Keswani RN, on behalf of North American Alliance for the Study of Digestive Manifestations of Covid-19. Plans to reactivate gastroenterology practices following the COVID-19 pandemic: A survey of North American centers. Clinical Gastroenterology

and Hepatology. 2020;18(10):2287-2294. el. **PMCID: PMC7242181**

In this study, 123 gastroenterology practices located in North America answered a survey designed by the authors to identify reactivation barriers and strategies during the COVID-19 pandemic.

Kutner A, Love D, Markova A, Rossi A, Lee E, Nehal K, Lacouture M, Rotemberg V. Supporting virtual dermatology consultation in the setting of COVID-19. *Journal of Digital Imaging*. 2021;34(2):284-289. PMCID: PMC7945608

This experience report details the teledermatology consultations at MSKCC and how this can impact future improvements to the service.

Kwok G, Reese S, **Dugad S**, Donovan KA, Tsui J, Sahler OJZ, Levonyan-Radloff K, **Barnett ME**, Manne S, Ohman-Strickland P, Devine KA. Factors associated with COVID 19 vaccine uptake among adolescents and young adults recently diagnosed with cancer. Journal of Adolescent and Young Adult Oncology. 2022. Epub ahead of print.

Results of a survey of 144 patients aged 18-39 who were recently diagnosed with and being treated for cancer; responses were evaluated to understand factors associated with COVID-19 vaccine uptake and intention.

Lambert B, Stopard IJ, **Boroujeni A**, Mendoza R, Zuretti A. Using patient biomarker time series to determine mortality risk in hospitalized COVID-19 patients: A comparative analysis across two New York hospitals. PLoS One. 2022:17(8):e0272442. **PMCID: PMC9387798**

The authors used a mathematical model to quantify the mortality risk in patients hospitalized for COVID-19.

Lara OD, Smith M, Wang Y, **O'Cearbhaill RE**, Blank SV, Kolev V, Carr C, Knisely A, McEachron J, Gabor L, Chapman-Davis E, Cohen S, Fehniger J, Lee YC, Isani S, Liu M, Wright JD, Pothuri B. COVID-19 outcomes of patients with gynecologic cancer in New York City: An updated analysis from the initial surge of the pandemic. Gynecologic Oncology. 2022;164(2):304-310. **PMCID: PMC8648583**

This article offers an update on COVID-19 outcomes among patients with gynecologic cancers in 8 New York City hospital systems during the initial surge of COVID-19.

Lara OD, Smith MJ, Wang Y, **O'Cearbhaill R**, Blank SV, Kolev V, Carr C, Knisely A, McEachron J, Gabor L, Chapman-Davis E, Jee J, Fehniger J, Lee YC, Isani S, Liu M, Wright JD, Pothuri B. Racial disparities in patients with coronavirus disease 2019 infection and gynecologic malignancy. Cancer. 2021;127(7):1057-1067.

PMCID: PMC8504148

A retrospective, observational cohort study of 193 patients with gynecologic cancer and COVID-19 infection at eight New York Cityarea hospital systems, where Black patients had disproportionate rates of hospitalization and death than non-Black patients.

Lara OD, **O'Cearbhaill RE**, Smith MJ, Sutter ME, Knisely A, McEachron J, Gabor LR, Jee J, Fehniger JE, Lee YC, Isani SS, Wright JD, Pothuri B. COVID-19 outcomes of patients with gynecologic cancer in New York City. Cancer. 2020;126(19):4294-4303. **PMCID: PMC8654115**

This study found that immunotherapy treatments negatively affect the infection severity and patient survival while cancer che

motherapy and surgery don't. These findings inform treatment decisions that also allow for continuing chemotherapy and surgery.

Laracy JC, Robilotti EV, Yan J, Lucca A, Aslam A, Babady NE, Kamboj M. Comparison of coronavirus disease 2019 (COVID-19) symptoms at diagnosis among healthcare personnel before and after the emergence of the omicron variant. Infection Control & Hospital Epidemiology. 2022. Epub ahead of print. PMCID: PMC9068496

During the omicron surge of COVID-19 in December 2021-January 2022, healthcare professionals at MSK were more likely to have asymptomatic disease at the time of diagnosis compared to those who had COVID from May to October 2021.

Laszkowska M, Faye AS, Kim J, Truong H, Silver ER, Ingram M, May B, Ascherman B, Bartram L, Zucker J, Sobieszczyk ME, Abrams JA, Lebwohl B, Freedberg DE, Hur C. Disease course and outcomes of COVID-19 among hospitalized patients with gastrointestinal manifestations. Clinical Gastroenterology and Hepatology. 2021;19(7):1402-1409.e1. PMCID: PMC7525451

This retrospective study looked at gastrointestinal (GI) symptoms among 2804 hospitalized patients with COVID-19. The authors observed that patients with GI symptoms had less severe COVID-19 disease.

Laszkowska M, Kim J, Faye AS, Joelson AM, Ingram M, Truong H, Silver ER, May B, Greendyke WG, Zucker J, Lebwohl B, Hur C, Freedberg DE. Prevalence of Clostridioides difficile and other gastrointestinal pathogens in patients with COVID-19. Digestive Diseases

and Sciences. 2021;66(12):4398-4405. **PMCID: PMC7819769**

In this study, 4973 hospitalized adult patients at two institutions were tested for COVID-19 and for gastrointestinal infections (from March 11 through April 28, 2020) in order to estimate the prevalence of co-infection with enteric pathogens of COVID-19 positive patients.

Laurence J, Nuovo G, Racine-Brzostek SE, Seshadri M, Elhadad S, Crowson AN, **Mulvey** JJ, Harp J, Ahamed J, Magro C. Premortem skin biopsy assessing microthrombi, interferon type I antiviral and regulatory proteins, and complement deposition correlates with coronavirus disease 2019 clinical stage. American Journal of Pathology. 2022;192(9):1282-1294. **PMCID: 35640675**

An investigator-initiated, prospective case series of 21 patients (15 with severe/critical COVID-19 and six with mild/moderate COVID-19) who had cutaneous punch biopsy specimens collected between April 1, 2020 and December 31, 2020 at a single institution.

Laurence J, **Mulvey JJ**, Seshadri M, Racanelli A, Harp J, Schenck EJ, Zappetti D, Horn EM, Magro CM. Anti-complement C5 therapy with eculizumab in three cases of critical COVID-19. Clinical Immunology. 2020;219:108555.

PMCID: PMC7410014

This article reports on the effects of the administration of the anti-C5 monoclonal anti-body eculizumab to three critically ill COVID-19 patients who had failed to respond to multiple other interventions, including steroids, remdesivir, and tociluzimab.

Lee CY, Shah MK, Hoyos D, Solovyov

A, Douglas M, Taur Y, Maslak PG, Esther Babady N, Greenbaum B, Kamboj M, Vardhana SA. Prolonged SARS-CoV-2 infection in patients with lymphoid malignancies. Cancer Discovery. 2022;12(1):62-73. PMCID: PMC8758535

The article describes persistent symptomatic COVID-19 infection in patients with lymphoid malignancies. It identifies B-cell depletion as the key immunologic driver of persistent infection and demonstrates viral evolution in these patients.

Lee D, Le Pen J, Yatim A, Dong B, Aguino Y, Ogishi M, Pescarmona R, Talouarn E, Rinchai D, Zhang P, Perret M, Liu Z, Jordan I, Elmas Bozdemir S, Bayhan GI, Beaufils C, Bizien L, Bisiaux A, Lei W, Hasan M, Chen J, Gaughan C, Asthana A, Libri V, Luna JM, Jaffré F, Hoffmann HH, Michailidis E, Moreews M, Seeleuthner Y, Bilguvar K, Mane S, Flores C, Zhang Y, Arias AA, Bailey R, Schlüter A, Milisavljevic B, Bigio B, Le Voyer T, Materna M, Gervais A, Moncada-Velez M, Pala F, Lazarov T, Levy R, Neehus AL, Rosain J, Peel J, Chan YH, Morin MP, Pino-Ramirez RM, Belkaya S, Lorenzo L, Anton J, Delafontaine S, Toubiana J, Bajolle F, Fumadó V, DeDiego ML, Fidouh N, Rozenberg F, Pérez-Tur J, Chen S, Evans T, Geissmann F, Lebon P, Weiss SR, Bonnet D, Duval X; CoV-Contact Cohort, Covid HGE, Pan-Hammarström Q, Planas AM, Meyts I, Haerynck F, Pujol A, Sancho-Shimizu V, Dalgard C, Bustamante J, Puel A, Boisson-Dupuis S, Boisson B, Maniatis T, Zhang Q, Bastard P, Notarangelo L, Béziat V, Perez de Diego R, Rodriguez-Gallego C, Su HC, Lifton RP, Jouanguy E, Cobat A, Alsina L, Keles S, Haddad E, Abel L, Belot A, Quintana-Murci L, Rice CM, Silverman RH, Zhang SY, Casanova JL. Inborn

errors of OAS-RNase L in SARS-CoV-2-related multisystem inflammatory syndrome in children. Science. 2023;379(6632):eabo3627.

A study of 558 patients with multisystem inflammatory syndrome in children (MIS-C) from the international COVID Human Genetic Effort (CHGE) cohort, as this is a rare and severe condition that can follow benign COVID-19 infection.

Lewicka M, **Hay JL**, Waters EA, **Schofield E**, Orom H, Kiviniemi MT. Worldview orientations and personal and social risk perceptions for COVID-19 in a U.S. population-based sample. Journal of Prevention. 2023;44(1):53-68.

PMCID: PMC9670042

Results of a study of 410 adults in the United States to examine associations between worldview orientations and six facets of risk for COVID-19.

Lewicka M, Hamilton JG, Waters EA, Orom H, Schofield E, Kiviniemi MT, Kanetsky PA, **Hay JL**. Associations between social COVID-19 exposure and psychological functioning. Journal of Behavioral Medicine. 2022 5:1–11. Epub ahead of print. **PMCID: PMC9638199**

Results of a survey of 343 participants who were enrolled in skin cancer prevention intervention studies to examine associations between social COVID-19 exposure and psychological functioning.

Li F, Han M, Dai P, Xu W, He J, Tao X, Wu Y, Tong X, Xia X, Guo W, Zhou Y, Li Y, Zhu Y, Zhang X, Liu Z, Aji R, Cai X, Li Y, Qu D, **Chen Y**, Jiang S, Wang Q, Ji H, Xie Y, Sun Y, Lu L, Gao D. Distinct mechanisms for TMPRSS2 expression explain organ-specific inhibition of SARS-CoV-2

infection by enzalutamide. Nature Communications. 2021;12(1):866. PMCID: PMC7870838

This study evaluated an existing drug, enzalutamide, for possible repurposing as an anti-COVID-19 agent. This thoroughly designed study concludes that this drug cannot be used for COVID-19 treatment, contrary to some previous studies that suggested such possibility.

Li Y, Wu J, Wang S, Li X, Zhou J, Huang B, Luo D, Cao Q, Chen Y, Chen S, Ma L, Peng L, Pan H, **Travis WD**, Nie X. Progression to fibrosing diffuse alveolar damage in a series of 30 minimally invasive autopsies with COVID-19 pneumonia in Wuhan, China. Histopathology. 2021;78(4):542-555. **PMCID: PMC8848295**

An autopsy study of COVID-19 patients to determine the clinical course related to and patterns of damaged lung tissue.

Lo Gullo R, Cloutier Lambert C, **Lin O**, **Jochelson MS**, **D'Alessio D**. Yield of flow cytometry in addition to cytology for lymph node sampling in patients with incidental axillary adenopathy without a concurrent diagnosis of primary breast malignancy. Breast Cancer Research and Treatment. 2022;191(3):677-683. **PMCID: PMC8747879**

This retrospective study looked at 222 patients being screened for suspicious lymphadenopathy to analyze the accuracy of fine-needle aspiration biopsy alone versus fine-needle aspiration biopsy combined with other tools such as flow cytometry.

Luo J, Rizvi H, Egger JV, Preeshagul IR, Wolchok JD, Hellmann MD. Impact of PD-1 blockade on severity of COVID-19 in patients with lung cancers. Cancer Discovery.

2020;10(8):1121-1128. PMCID: PMC7416461

The authors found that a small sample of lung cancer patients who had previously received PD-1 blockade immune therapy did not experience statistically significant increased COVID symptom severity, but smoking history did make an impact.

Luo J, Rizvi H, Preeshagul IR, Egger JV, Hoyos D, Bandlamudi C, McCarthy CG, Falcon CJ, Schoenfeld AJ, Arbour KC, Chaft JE, Daly RM, Drilon A, Eng J, Iqbal A, Lai WV, Li BT, Lito P, Namakydoust A, Ng K, Offin M, Paik PK, Riely GJ, Rudin CM, Yu HA, Zauderer MG, Donoghue MTA, Luksza M, Greenbaum BD, Kris MG, Hellmann MD. COVID-19 in patients with lung cancer. Annals of Oncology. 2020;31(10):1386-1396. PMCID: PMC7297689

While the current pandemic demonstrated an increased severity of COVID-19 infection course in lung cancer patients, the study reported in this article established that this severity is a result of patient characteristics and behaviors that were the risk factors for lung cancer (e.g., smoking status and chronic obstructive pulmonary disease) rather than cancer itself.

Lynch KA, Green A, Saltz L, Epstein AS, Romano DR, Vera J, Nelson JE. The hardest weeks of my life: A qualitative study of experiences, practice changes, and emotional burden of New York City oncology physicians during the COVID-19 surge in 2020. JCO Oncology Practice. 2022;18(5):e669-e676. PMCID: PMC9797244

Eighteen physicians were surveyed to share their experience as oncologists providing care

during the 2020 COVID-19 surge. The authors hope to give guidance for future pandemics.

Lyudovyk O, Kim JY, Qualls D, Hwee MA, Lin YH, Boutemine SR, Elhanati Y, Solovyov A, Douglas M, Chen E, Babady NE, Ramanathan L, Vedantam P, Bandlamudi C, Gouma S, Wong P, Hensley SE, Greenbaum B, Huang AC, Vardhana SA. Impaired humoral immunity is associated with prolonged COVID-19 despite robust CD8 T cell responses. Cancer Cell. 2022;40(7):738-753.e5. PMCID: PMC9149241

This important study analyzed cellular and humoral immune responses in 103 cancer patients with prior COVID-19 infection (based on SARS-CoV-2 positive PCR test, between March 1, 2020 and January 20, 2021) to establish whether B and CD4+ T cell immunity are key factors associated with delayed viral infection clearance and incidence of prolonged COVID-19 disease.

Madhusoodhan PP, Pierro J, Musante J, **Kothari P**, Gampel B, Appel B, Levy A, Tal A, Hogan L, Sharma A, Feinberg S, Kahn A, Pinchinat A, Bhatla T, Glasser CL, Satwani P, Raetz EA, Onel K, Carroll WL. Characterization of COVID-19 disease in pediatric oncology patients: The New York-New Jersey regional experience. Pediatric Blood & Cancer. 2021;68(3):e28843.

PMCID: PMC7883045

In this 13-institution, multicenter, retrospective study, 578 pediatric oncology patients were tested for COVID-19, with 98 found to be positive, 73 of which were symptomatic. Their clinical and laboratory information was collected and analyzed, from which it was concluded that although COVID-related morbidity and mortality were

low in pediatric oncology patients overall, they were higher than in the general pediatric population, with some subgroups more at risk for severe COVID disease.

Magro CM, Mulvey JJ, Laurence J, Sanders S, Crowson N, Grossman M, Harp J, Nuovo G. The differing pathophysiologies that underlie COVID-19-associated perniosis and thrombotic retiform purpura: A case series. British Journal of Dermatology. 2021;184(1):141-150. PMCID: PMC7405151

The authors compare two skin manifestations of COVID, one that arises in mild disease and one in severe illness, and the distinct immune responses behind them.

Magro CM, Mulvey JJ, Laurence J, Seshan S, Crowson AN, Dannenberg AJ, Salvatore S, Harp J, Nuovo GJ. Docked severe acute respiratory syndrome coronavirus 2 proteins within the cutaneous and subcutaneous microvasculature and their role in the pathogenesis of severe coronavirus disease 2019. Human Pathology. 2020;106:106-116. PMCID: PMC7550120

This study, conducted on 23 patients with COVID-19, investigated the possible complement activation of cutaneous and subcutaneous microvessels and SARS-CoV-2 docked protein within the endothelium.

Magro CM, Mulvey J, Kubiak J, Mikhail S, Suster D, Crowson AN, Laurence J, Nuovo G. Severe COVID-19: A multifaceted viral vasculopathy syndrome. Annals of Diagnostic Pathology. 2021 Feb;50:151645. PMCID: PMC7553104

This article contributes to the knowledge of mechanisms causing a severe course of COVID-19 infection and lays the foundation for creating new therapies targeting those mechanisms.

Mahadev S, Aroniadis OC, Barraza LH, Agarunov E, Smith MS, Goodman AJ, Beniass PC, Buscaglia JM, Gross SA, Kasmin F, Cohen J, Carr-Locke DL, Greenwald D, Mendelsohn R, Sethi A, Gonda TA, on behalf of NYSGE research committee. Gastrointestinal endoscopy during the coronavirus pandemic in the New York area: Results from a multi-institutional survey. Endoscopy International Open. 2 020;08(12):E1865-E1871. PMCID: PMC7695511

A survey of 11 endoscopy units in the New York area found an overall pandemic-related decline in procedural volume and a general agreement of which situations indicated urgent endoscopic procedures during the pandemic. The 11 units reported notably different pre-procedural COVID testing policies.

Majeed J, Garcia J, Holland J, Daly B, Robson ME, Reidy-Lagunes D. When a cancer patient tests positive for covid-19. Harvard Business Review. 2021.

This article reports on the successes and challenges of an MSKCC program that remotely monitors cancer patients who test positive to COVID-19. The program involves five digital platforms.

Maki KR, Steiger SN, Su Y, Boumiza A, Tan CA, Kerpelev M, Seo SK, Cohen N. Bacterial infections and antibiotic utilization varies by coronavirus disease 19 (COVID-19) severity in hospitalized cancer patients: Analysis from the first phase of the pandemic. Infection Control & Hospital Epidemiology. 2023;44(3):413-419. PMCID: PMC9203359

This observational study looked at hospital-

ized cancer patients with COVID-19 and bacterial co-infections. The results of this study can inform antibiotics use in this patient population.

Maruthur M, Lee E, Dusza S, Nehal K, Rossi A. Pilot survey of adoption of telemedicine in Mohs surgery during the COVID-19 pandemic. Dermatologic Surgery. 2022;48(2):187-190.

The article reports on the results of an online survey on telemedicine adoption distributed to the American College of Mohs Surgeons. The survey responses demonstrated that the COVID-19 pandemic triggered the use of telemedicine in managing patients undergoing Mohs surgery and identified the most common uses, barriers, and future plans for telemedicine in these settings.

Mato AR, Roeker LE, Lamanna N, Allan J, Leslie LA, Pagel JM, Patel K, Osterborg A, Wojenski D, Kamdar M, Huntington SF, Davids MS, Brown JR, Antic D, Jacobs RW, Ahn IE, Pu JJ, Isaac K, Barr PM, Ujjani C, Geyer MB, Berman E, **Zelenetz AD**, Malakhov N, Furman RR, Koropsak M, Bailey N, Hansson L, Perini GF, Ma S, Ryan CE, Wiestner A, Portell CA, Shadman M, Chong EA, Brander DM, Sundaram S, Seddon AN, Seymour E, Patel M, Martinez-Calle N, Munir T, Walewska R, Broom A, Walter HS, El-Sharkawi D, Parry H, Wilson MR, Patten PE, Hernández-Rivas JÂ, Miras F, Fernández Escalada N, Ghione P, Nabhan C, Lebowitz S, Bhavsar EB, López-Jiménez J, Nava D, Garcia-Marco JA, Skånland SS, Cordoba R, Eyre TA. Outcomes of COVID-19 in patients with CLL: A multicenter international experience. Blood. 2020;136(10):1134-1143. PMCID: PMC7472711

This study of nearly 200 chronic lymphocytic leukemia patients with symptomatic

COVID infections found that patients requiring hospitalization had high mortality rates.

Matos LL, Forster CHQ, Marta GN, Castro Junior G, Ridge JA, Hirata D, Miranda-Filho A, Hosny A, Sanabria A, Gregoire V, **Patel SG**, Fagan JJ, D'Cruz AK, Licitra L, Mehanna H, Hao SP, Psyrri A, Porceddu S, Galloway TJ, Golusinski W, **Lee NY**, Shiguemori EH, Matieli JE, Shiguemori APAC, Diamantino LR, Schiaveto LF, Leão L, Castro AF, Carvalho AL, Kowalski LP. The hidden curve behind COVID-19 outbreak: The impact of delay in treatment initiation in cancer patients and how to mitigate the additional risk of dying-the head and neck cancer model. Cancer Causes Control. 2021;32(5):459-471.

PMCID: PMC7950430

The authors used a model of head and neck squamous cell carcinoma progression to estimate the increased mortality burden of the pandemic on cancer patients.

Matuschek C, Fischer JC, Combs SE, Fietkau R, Corradini S, Zanker K, Bolke E, Djiepmo-Njanang FJ, Tamaskovics B, Fischer JE, Stuschke M, Pottgen C, Forster R, Zwahlen DR, Papachristofilou A, Ganswindt U, Pelka R, Schneider EM, Feldt T, Jensen BEO, Haussinger D, Knoefel WT, Kindgen-Milles D, **Pedoto A**, Grebe O, van Griensven M, Budach W, Haussmann J. Measures of infection prevention and incidence of SARS-CoV-2 infections in cancer patients undergoing radiotherapy in Germany, Austria and Switzerland. Strahlentherapie und Onkologie. 2020;196(12):1068-1079. **PMCID**:

PMC7483062

The authors analyzed 106 responses to a survey sent to radiation oncology institutions in Germany, Austria, and Switzerland. Cancer

treatments, often on modified schedules, continued with the implementation of additional safety measures.

McMillen T, Jani K, Babady NE. Evaluation of sample pooling for SARS-CoV-2 RNA detection in nasopharyngeal swabs and salivas on the Roche Cobas 6800. Journal of Clinical Virology. 2021;138:104790. PMCID: PMC7944801

This work reports on the results of a study (that used a pool of 8 samples) evaluating sample pooling for SARS-CoV-2 testing. It was found to be a viable option worth investigating further.

McMillen T, Jani K, Robilotti EV, Kamboj M, Babady NE. The spike gene target failure (SGTF) genomic signature is highly accurate for the identification of Alpha and Omicron SARS-CoV-2 variants. Scientific Reports. 2022;12:18968. PMCID: PMC9641688

Results of a study to investigate the detection accuracy of the spike gene target failure genomic signature for Alpha and Omicron variants by analyzing positive SARS-CoV-2 samples tested on a widely used, commercial test between December 2020 and July 2022.

Medjeral-Thomas NR, Troldborg A, Hanse AG, **Pihl R**, Clarke CL, Peters JE, Thomas DC, Willicombe M, Palarasah Y, Botto M, Pickering MC, Thiel S. Protease inhibitor plasma concentrations associate with COVID-19 infection. Oxford Open Immunology. 2021;2(1):iqab014. **PMCID: PMC8371939**

This study measured and compared the level of protease inhibitors in hemodialysis patients infected with COVID-19 and non-infected patients. The authors observed different

inhibitors' levels. Therefore, additional studies are needed to understand the mechanisms.

Melms JC, Biermann J, Huang H, Wang Y, Nair A, Tagore S, Katsyv I, Rendeiro AF, Amin AD, Schapiro D, Frangieh CJ, Luoma AM, Filliol A, Fang Y, Ravichandran H, Clausi MG, Alba GA, Rogava M, Chen SW, Ho P, Montoro DT, Kornberg AE, Han AS, **Bakhoum MF**, Anandasabapathy N, Suárez-Fariñas M, Bakhoum SF, Bram Y, Borczuk A, Guo XV, Lefkowitch JH, Marboe C, Lagana SM, Del Portillo A, Zorn E, Markowitz GS, Schwabe RF, Schwartz RE, Elemento O, Saqi A, Hibshoosh H, Que J, Izar B. A molecular single-cell lung atlas of lethal COVID-19. Nature. 2021;595(7865):114-119.

By comparing samples from COVID-19-infected lungs to samples from control lungs, the researchers developed an atlas of lethal COVID-19 on a cellular level.

PMCID: PMC8814825

Mendoza R, **Saha N**, Momeni A, Gabutan E, Alawad M, Dehghani A, Diks J, Lin B, Wang D, Alshal M, Fyke W, Wang B, **Himanen JP**, Premsrirut P, **Nikolov DB**. Ephrin-Al and the sheddase ADAM12 are upregulated in COVID-19. Heliyon. 2021;7(6):e07200. **PMCID: PMC8165044**

This research article describes a potential pharmacological target for treating COVID-19-related inflammation.

Mendoza RP, Fyke W, Daniel D, Gabutan E, Das B, Bajaj H, Easy M, Vasileva A, Colbourn R, Alawad M, Dehghani A, Lin B, Emechebe D, Patel P, Jabbar A, **Nikolov DB**, Giovaniello D, Kang S, Tatem L, Bromberg K, Augenbraun M, Premsrirut P, Libien J, Norin AJ. Administration of high titer convalescent anti-SARS-CoV-2 plasma:

From donor selection to monitoring recipient outcomes. Human Immunology. 2021;82(4):255-263. **PMCID: PMC7885628**

A description of the process and outcomes of the convalescent plasma program at University Hospital Brooklyn from April to June 2020.

Migliacci J, Rodavitch A, Riely G, Sabbatini P, Houston C, Hanley S. One committee to review it all: A single, multi-disciplinary COVID-19 Research Committee. Contemporary Clinical Trials. 2022;117:106760. PMCID: PMC9020641

This article describes the creation of a COVID-19 Research Committee at MSK that reviewed research protocols with the aim of minimizing bottlenecks, reducing redundancies, and boosting transparency through an internal portal.

Min JY, Williams N, Simmons W, Banerjee S, Wang F, Zhang Y, Reese AB, Mushlin Al, **Flory JH**. Baseline haemoglobin Alc and the risk of COVID-19 hospitalization among patients with diabetes in the INSIGHT Clinical Research Network. Diabetic Medicine. 2022;39(5):e14815. **PMCID: PMC9111874**

This research examined the association between the risk of COVID-19 hospitalization in diabetic patients with higher baseline HbA1c. Diabetic patients with poor glucose control are at significantly increased risk for hospitalization from COVID-19.

Mitchell B, Sarfati D, Stewart M. COVID-19 and beyond: A prototype for remote/virtual social work field placement. Clinical Social Work Journal. 2022;50(1):3-10. PMCID: PMC7874988

The COVID-19 pandemic affected both

clinical practice and education. This article describes how clinical education for students in social work adjusted to the COVID-19 pandemic, and specifically, how an educational program for oncology social work interns from the graduate school was redesigned for remote/virtual learning.

Montano M, Victor AR, Griffin DK, Duong T, Bolduc N, Farmer A, **Garg V**, **Hadjantonakis AK**, Coates A, Barnes FL, Zouves CG, Greene WC, Viotti M. SARS-CoV-2 can infect human embryos. Scientific Reports. 2022;12:15451. **PMCID: PMC9472724**

A study of human embryos preimplantation to explore the factors required for SARS-CoV-2 entry into cells, with findings confirming that these embryos at the blastocyst stage are susceptible to SARS-CoV-2 infection.

Morjaria S, Zhang AW, Kaltsas A, Parameswaran R, Patel D, Zhou W, Predmore J, Perez-Johnston R, Jee J, Perales MA, Daniyan AF, Taur Y, Mailankody S. The effect of neutropenia and filgrastim (G-CSF) on cancer patients with coronavirus disease 2019 (COVID-19) infection. Clinical Infectious Diseases. 2022;74(4):567-574. PMCID: PMC8406899

The study looked at hospitalized cancer patients with neutropenia who also had COVID-19 infection. The retrospective study found that neutropenia did not affect the course of COVID-19 infection in such patients, but CSF administration did. The authors recommended exercising caution and weighing risks vs benefits of SCF treatment of neutropenic patients with COVID-19 infection.

Morris A, McCorkindale W, **The COVID**

Moonshot Consortium, Drayman N, Chodera JD, Tay S, London N, Lee AA. Discovery of SARS-CoV-2 main protease inhibitors using a synthesis-directed de novo design model. Chemical Communications. 2021;57(48):5909-5912. PMCID: PMC8204246

This paper reports on the work of researchers participating in the COVID Moonshot initiative and their use of machine learning to make predictions about chemical targets in their attempt to "...develop patent-free antivirals with open science and open data."

Moya EM, **Zamore C**, Perez LM, **Tellez K**, Avila A, **Aragones A**. COVID-19 imperils access to health and human services in El Paso, Texas and New York City: Perspectives from Hispanic parents. Journal of Racial and Ethnic Health Disparities. 2022;9(3):1024-1029. **PMCID: PMC8074725**

A comparison of the impact of COVID-19 on low-income Mexican-born parents in New York City and El Paso, TX, including financial, mental health, and healthcare access repercussions.

Mullangi S, Aviki EM, Chen Y, Robson M, Hershman DL. Factors associated with cancer treatment delay among patients diagnosed with COVID-19. JAMA Network Open. 2022;5(7): e2224296. PMCID: PMC9335143

A cohort study of 3,028 patients within the American Society of Clinical Oncology COVID-19 Oncology Data Registry, with authors noting that findings suggest some health disparities may have been exacerbated during the COVID-19 pandemic as an effect of cancer treatment delay.

Müller C, Obermann W, Karl N, Wendel HG,

Taroncher-Oldenburg G, Pleschka S, Hartmann RK, Grünweller A, Ziebuhr J. The rocaglate CR-31-B (-) inhibits SARS-CoV-2 replication at non-cytotoxic, low nanomolar concentrations in vitro and ex vivo. Antiviral Research. 2021;186:105012. **PMCID: PMC7791309**

Researchers found that a synthetic rocaglate molecule had antiviral effects against SARS-CoV-2 in human bronchial cells.

Mulvey JJ, Magro CM, Ma LX, Nuovo GJ, Baergen RN. Analysis of complement deposition and viral RNA in placentas of COVID-19 patients. Annals of Diagnostic Pathology. 2020;46:151530. **PMCID: PMC7182529**

This article reports on the placental pathology of five full-term babies that were delivered from COVID-19 infected patients without significant morbidity or mortality to the mothers or their newborns.

Nath SS, Yadav NU, Derkach A, Perez-Johnston R, Tachiki L, Maguire K, Babar A, Maloy MA, Klotz A, Jee J, Taur Y, Chawla S, Babady E, Khaki AR, Madeleine MM, Grivas P, Henning DJ, Aaltonen L, Lyman GH, Groeger J. Outcomes of patients with COVID-19 from a specialized cancer care emergency room. Cancer Investigation. 2022;40(1):17-25. PMCID: PMC9480619

This retrospective analysis followed 255 adult patients with a history of cancer who presented to Memorial Sloan Kettering Cancer Center urgent care center with concurrent COVID-19 infection (from March 1, 2020 to May 31, 2020) to try to identify "...vital signs, labs, and imaging at presentation" that can help predict outcomes and "...have implications in

triage and disposition planning in the urgent care and emergency settings."

Navlakha S, **Morjaria S**, **Perez-Johnston R**, Zhang A, **Taur Y**. Projecting COVID-19 disease severity in cancer patients using purposefully-designed machine learning. BMC Infectious Diseases. 2021;21:391. **PMCID: PMC8092998**

The authors developed and used a machine learning algorithm based on 267 clinical variables to identify cancer patients at high risk of severe COVID-19 outcomes.

Nawas MT, Shah GL, Feldman DR, Ruiz JD, Robilotti E V, Aslam AA, Dundas M, Kamboj M, Barker JN, Cho C, Chung DJ, Dahi PB, Giralt SA, Gyurkocza B, Lahoud OB, Landau HJ, Lin RJ, Mailankody S, Palomba ML, Papadopoulos EB, Politikos I, Ponce DM, Sauter CS, Shaffer BC, Scordo M, van den Brink MRM, Perales MA, Tamari R. Cellular therapy during COVID-19: Lessons learned and preparing for subsequent waves. Transplantation and Cellular Therapy. 2021;27(5):438. e1-438.e6. PMCID: PMC7952254

The study at Memorial Sloan Kettering Cancer Center evaluated the impact of delays in scheduling hematopoietic cell transplantation (HCT) or chimeric antigen receptor T-cell (CAR-T) therapy caused by the COVID-19 pandemic and found that for patients with high-risk disease treatment, delay could be devastating and should be avoided as much as possible.

Nelson BA, **Lapen K**, Schultz O, Nangachiveettil J, Braunstein SE, Fernandez C, Fields EC, Gunther JR, Jeans E, Jimenez RB, Kharofa JR, Laucis A, Yechieli RL, **Gillespie EF**, Golden

DW. The Radiation Oncology Education Collaborative Study Group 2020 Spring Symposium: Is virtual the new reality? International Journal of Radiation Oncology, Biology, Physics. 2021;110(2):315-321. **PMCID: PMC8122018**

This report shares the advantages and limits of conducting the 2020 ROECSG symposium virtually because of the pandemic. The authors' discussion will help with planning future scientific meetings.

Neuberger M, **Jungbluth A**, Irlbeck M, Streitparth F, Burian M, Kirchner T, Werner J, Rudelius M, Knösel T. Duodenal tropism of SARS-CoV-2 and clinical findings in critically ill COVID-19 patients. Infection. 2022;50(5):1111-1120.

PMCID: PMC8857399

In this retrospective study, the authors show that 8% of critically ill COVID-19 patients could develop a duodenal infection as an adverse event of COVID-19 infection.

Nguyenla X, Wehri E, Van Dis E, Biering SB, Yamashiro LH, Zhu C, Stroumza J, Dugast-Darzacq C, Graham TGW, Wang X, Jockusch S, Tao C, Chien M, Xie W, **Patel DJ**, Meyer C, Garzia A, Tuschl T, Russo JJ, Ju J, Näär AM, Stanley S, Schaletzky J. Discovery of SARS-CoV-2 antiviral synergy between remdesivir and approved drugs in human lung cells. Scientific Reports. 2022;12:18506. **PMCID: PMC9628577**

Results of a study to identify compounds that act synergistically with remdesivir, which the authors note is the only FDA-approved therapeutic for COVID-19, in preventing SARS-CoV-2 replication.

Nolan MB, Piasecki TM, Smith SS, Baker TB,

Fiore MC, Adsit RT, Bolt DM, Conner KL, Bernstein SL, Eng OD, Lazuk D, Gonzalez A, Hayes-Birchler T, Jorenby DE, D'Angelo H, Kirsch JA, Williams BS, Kent S, Kim H, Lubanski SA, Yu M, Suk Y, Cai Y, Kashyap N, Mathew J, McMahan G, Rolland B, Tindle HA, Warren GW, Abu-El-Rub N, An LC, Boyd AD, Brunzell DH, Carrillo VA, Chen LS, Davis JM, Deshmukh VG. **Dilip D.** Goldstein A. Ha PK. Iturrate E. Jose T, Khanna N, King A, Klass E, Lui M, Mermelstein RJ, Poon C, Tong E, Wilson KM, Theobald WE, Slutske WS. Relations of current and past cancer with severe outcomes among 104,590 hospitalized COVID-19 patients: The COVID EHR Cohort at the University of Wisconsin. Cancer Epidemiol Biomarkers & Prevention. 2023;32(1):12-21. PMCID: PMC9827105

This article reports on a study that uses the electronic health record data of over 100,000 adult hospitalized patients with COVID-19, obtained from 21 United States health systems from February 2020 through September 2021. The findings demonstrate that cancer patients with COVID-19 were at risk of severe COVID-19 outcomes (mitigated to a degree by prior COVID-19 vaccination), while history of cancer was not associated with such risk.

Noy A, Vardhana SA. Discordant SARS-CoV-2 spike protein receptor binding domain IgG and neutralization after B-cell depletion. Haematologica. 2022;107(12):2988-2989. **PMCID: PMC9713547**

This case study reports on the immune response and efficacy of vaccination in a cancer patient with a history of chemotherapy treatment. The patient contracted COVID-19 shortly after beginning chemotherapy and received several rounds of vaccination with

SARS-CoV-2 mRNA vaccine six months following treatment.

Oh D, Haffey P, Patel A, **Gulati A**. Intravenous ketamine for cancer pain management, including flares during the COVID-19 pandemic: A retrospective study. Pain Medicine. 2021;22(7):1642-1650. **PMCID: PMC8195210**

This study looks at intravenous ketamine for cancer-related neuropathy. The study was conducted during the COVID-19 pandemic.

Oh JH, Tannenbaum A, **Deasy JO**. Identification of biological correlates associated with respiratory failure in COVID-19. BMC Medical Genomics. 2020;13:186. **PMCID: PMC7729705**

This study re-analyzed data, originally collected for a genome-wide association study (GWAS) of Italian and Spanish participants by an international consortium group. They used gene ontology analysis and protein-protein interaction analysis to determine which biological processes were most implicated in respiratory failure in COVID-19 patients.

Olshen AB, Garcia A, Kapphahn KI, Weng Y, Vargo J, Pugliese JA, Crow D, Wesson PD, Rutherford GW, **Gonen M**, Desai M. COVID-NearTerm: A simple method to forecast COVID-19 hospitalizations. Journal of Clinical and Translational Science. 2022;6:e59. **PMCID: PMC9161046**

A method for predicting hospitalizations from COVID-19 two to four weeks from the time of prediction, evaluated on San Francisco Bay Area hospitalizations.

Orom H, Allard NC, Kiviniemi MT, Hay JL, Waters

EA, **Schofield E**, Thomas SN, **Tuman M**. Racial/ ethnic differences in prosocial beliefs and prevention behavior during the COVID-19 pandemic. Journal of Racial and Ethnic Health Disparities. 2022;9(5):1807-1817. **PMCID: PMC8405041**

A June 2020 survey of 50,000 adults in the United States found that Black and Latinx participants were more likely than whites to perceive COVID-19 as a higher risk and to take precautionary measures, like social distancing and masking, to prevent its spread.

Orsini EM, Sacha GL, Han X, Wang X, Duggal A, **Rajendram P**. Risk factors associated with development of coinfection in critically III patients with COVID-19. Acute Critical Care. 2022;37(3):312-321. **PMCID: PMC9475158**

A retrospective, observational case-control study of 900 adult patients critically ill with COVID-19 admitted to the intensive care units of the Cleveland Clinic Health System between March 15, 2020 and August 31, 2020.

Ostendorf BN, Patel MA, Bilanovic J, Hoffmann HH, **Carrasco SE**, Rice CM, Tavazoie SF. Common human genetic variants of APOE impact murine COVID-19 mortality. Nature. 2022;611(7935):346-351.

Results of a study of prevalent variants of the apolipoprotein E (APOE) gene in COVID-19-infected mice, to determine the impact these genetic markers have on viral susceptibility and host survival rates.

Paffenholz P, Peine A, Hellmich M, **Paffenholz SV**, Martin L, Luedde M, Haverkamp M, Roderburg C, Marx G, Heidenreich A, Trautwein C, Luedde T, Loosen SH. Perception of the

2020 SARS-CoV-2 pandemic among medical professionals in Germany: Results from a nationwide online survey. Emerging Microbes & Infections. 2020;9(1):1590-1599. **PMCID: PMC7473195**

This article reports the results of an online survey addressed to medical professionals in Germany to measure the COVID-19 pandemic impact. The results outline differences between subgroups, such as ambulatory centers versus university hospitals.

Pagano A, Finkelstein M, Overbey J, Steinberger S, Ellison T, Manna S, Toussie D, Cedillo M, Jacobi A, Gupta YS, Bernheim A, Chung M, Eber C, Fayad ZA, Concepcion J. Portable chest radiography as an exclusionary test for adverse clinical outcomes during the COVID-19 pandemic. Chest. 2021;160(1):238-248. **PMCID: PMC7844357**

This study looked at whether chest radiography can be used as an exclusionary test for adverse outcomes in patients with suspected COVID-19.

Paice JA, Wholihan D, Dahlin C, **Rosa WE**, Mazanec P, Long CO, Thaxton C, Greer K. Palliative nursing: The core of COVID-19 care. Journal of Hospice & Palliative Nursing. 2021;23(1):6-8. **PMCID: PMC7780934**

This article highlights the important role and scope of palliative nursing and how essential to care the palliative nurse is in the COVID-19 era.

Pan D, Ip A, Zhan S, Wasserman I, Snyder DJ, Agathis AZ, Shamapant N, Yang JY, Pai A, Mazumdar M, Poor H. Pre-hospital anti-

platelet medication use on COVID-19 disease severity. Heart and Lung. 2021;50(5):618-621. **PMCID: PMC8156906**

This retrospective study looked at pre-hospitalization use of antiplatelet medications in a sample of patients hospitalized with COVID-19 infection in March-April 2020. The study found that although patients on antiplatelet drugs were older and had more comorbidities, severity of COVID-19 disease course was not significantly different between users and non-users of antiplatelet drugs.

Park KU, Gregory M, Bazan J, Lustberg M, Rosenberg S, **Blinder V**, Sharma P, Pusztai L, Shen C, Partridge A, Thompson A. Neoadjuvant endocrine therapy use in early stage breast cancer during the covid-19 pandemic. Breast Cancer Research and Treatment. 2021;188(1):249-258. **PMCID: PMC7921279**

This study explored the pandemic-related changes in the practice patterns of medical oncologists, radiation oncologists, and surgeons with regards to their use of neoadjuvant endocrine therapy (NET) for early-stage breast cancer. Physicians were surveyed during the initial phase of the pandemic, in May-June2020, when NET was being recommended as an option that made possible the safe deferral of surgery.

Peerschke El, Valentino A, So RJ, Shulman S, Ravinder. Thromboinflammation supports complement activation in cancer patients with COVID-19. Frontiers in Immunology. 2021;12:716361. PMCID: PMC8416543

Researchers evaluated certain plasma markers in cancer patients and found that COVID-19 increased complement activation, the stimulation of plasma proteins that can lead to inflammatory reactions.

Perez-Johnston R, Araujo-Filho J, Mckenney AS, Gangai N, Plodkowski AJ, Liu CC, Sawan P, Taur Y, Morjaria SM, Ginsberg MS. Can baseline radiologic severity and early evolution predict clinical outcomes? European Radiology. 2022;32(4):2661-2671. PMCID: PMC8556839

In this retrospective study of 627 COVID-19-positive cancer patients, the researchers looked at the results of chest radiographs to analyze if there is an association with COVID-19 adverse outcomes in cancer patients.

Pillarsetty N, Carter LM, Lewis JS, Reiner T. Oncology-inspired treatment options for COVID-19. Journal of Nuclear Medicine. 2020;61(12):1720-1723. PMCID: PMC8679628

Researchers used a human antibody that binds to SARS-CoV-2 in a proof-of-concept study, concluding that molecularly targeting the virus is a potential therapeutic approach.

Pirovano G, Ordonez AA, Jain SK, **Reiner T**, Carroll LS, **Pillarsetty NVK**. Rapid detection of SARS-CoV-2 using a radiolabeled antibody. Nuclear Medicine and Biology. 2021;98-99:69-75. **PMCID: PMC8144098**

The authors of this report used their experience with radiolabeled antibodies for oncology applications to develop a SARS-CoV-2 detection system based on "... the combination of a specific radiolabeled antibody and a separation membrane."

Pisegna JL, BrintzenhofeSzoc K, Shahrokni

A, Canin B, Plotkin E, Boehmer LM, Chien L, Malone MV, MacKenzie AR, Krok-Schoen JL. Differences in urban and suburban/rural settings regarding care provision and barriers of cancer care for older adults during COVID-19. Support Care Cancer. 2022;31(1):78. PMCID: PMC9780617

Results of a survey of 271 multidisciplinary healthcare providers to examine the differences in cancer care for older adults between urban and suburban/rural settings during COVID-19.

Popowitch EB, **Kaplan S**, **Wu Z**, **Tang YW**, Miller MB. Comparative performance of the Luminex NxTAG Respiratory Pathogen Panel, GenMark eSensor Respiratory Viral Panel, and BioFire FilmArray Respiratory Panel. Microbiology Spectrum. 2022;10(4):e0124822. **PMCID: PMC9431521**

In this article, the authors compare the accuracy of 3 tests for detecting non-COVID-19 respiratory pathogens such as rhinovirus/enterovirus or influenza.

Rausen MS, Nahass TA, Halpern NA. Novel technology deployed for remote ventilator management by respiratory therapists during the COVID-19 pandemic: Lessons learned. Journal of Intensive Care Medicine. 2022 Dec:37(12):1662-1666. PMCID: PMC9490388

A description of the experience of deploying Omnitool, a novel remote ventilator management control technology, for use with intensive care unit patients in the latter half of 2020 during the COVID-19 pandemic.

Rebeiz T, Lim-Hing K, Khazanehdari S, **Rebeiz K**. Behavioral changes without respiratory symptoms as a presenting sign of COVID-19

encephalitis. Cureus. 2020;12(9):e10469. **PMCID: PMC7566981**

This case report describes a febrile patient without respiratory symptoms who presented to the emergency department due to isolated behavioral disturbances and was diagnosed with COVID-19 encephalitis after evaluation.

Reidy-Lagunes D, Saltz LB, Postow M, Scordo M, Moskowitz A, Tew W, Zamarin D, Redelman-Sidi G. Recommendations for testing and treating outpatient cancer patients in the era of COVID-19. Journal of the National Cancer Institute. 2021;113(7):820-822. PMCID: PMC7454724

This article reports guidelines for COVID-19 patients receiving anti-cancer treatment (chemotherapy, targeted therapy, or immunotherapy). An MSK task force wrote those guidelines and hopes it will be useful to oncologists in other institutions.

Remsik J, Wilcox JA, Babady NE, McMillen TA, Vachha BA, Halpern NA, Dhawan V, Rosenblum M, Iacobuzio-Donahue CA, Avila EK, Santomasso B, Boire A. Inflammatory leptomeningeal cytokines mediate COVID-19 neurologic symptoms in cancer patients. Cancer Cell. 2021;39(2):276-283.e3. PMCID: PMC7833316

This research article details how cancer patients with COVID who exhibit neurological symptoms weeks after acute infection have increased inflammatory cytokines in the cerebrospinal fluid, which lead to long term neurological dysfunction. Their findings suggest that anti-inflammatory treatments should be used to manage neurological symptoms in COVID patients.

Rentscher KE, Zhou X, Small BJ, Cohen HJ, Dilawari AA, Patel SK, Bethea TN, Van Dyk KM, Nakamura ZM, Ahn J, Zhai W, **Ahles TA**, Jim HSL, McDonald BC, Saykin AJ, **Root JC**, Graham DMA, Carroll JE, Mandelblatt JS. Loneliness and mental health during the COVID-19 pandemic in older breast cancer survivors and noncancer controls. Cancer. 2021;127(19):3671-3679. **PMCID: PMC8419003**

This original article describes the impact of COVID-19 loneliness and mental health on older breast cancer survivors but found that both cancer survivors and women without cancer experienced similar changes to their mental health. They concluded that screening for loneliness is important for all older women at risk during the pandemic.

Ricardo-Lax I, Luna JM, Thao TTN, Le Pen J, Yu Y, Hoffmann HH, Schneider WM, Razooky BS, Fernandez-Martinez J, Schmidt F, Weisblum Y, Trüeb BS, Veiga IB, Schmied K, Ebert N, Michailidis E, Peace A, **Sánchez-Rivera FJ**, **Lowe SW**, Rout MP, Hatziioannou T, Bieniasz PD, Poirier JT, MacDonald MR, Thiel V, Rice CM. Replication and single-cycle delivery of SARS-CoV2 replicons. Science. 2021;374(6571):1099-1106. **PMCID: PMC9007107**

The authors created a system that allows for the study of SARS-CoV-2, including the development of new therapeutics, without the need for high-level biocontainment.

Robilotti EV, Whiting K, Lucca A, Poon C, Guest R, McMillen T, Jani K, Solovyov A, Kelson S, Browne K, Freeswick S, Hohl TM, Korenstein D, Ruchnewitz D, Lässig M, Łuksza M, Greenbaum B, Seshan VE, Babady

NE, **Kamboj M**. Clinical and genomic characterization of severe acute respiratory syndrome coronavirus 2 (SARS CoV-2) infections in mRNA vaccinated health care personnel in New York City. Clinical Infectious Diseases. 2022;75(1):e774-e782. **PMCID: PMC9612794**

This study explored SARS CoV-2 infection in vaccinated and unvaccinated healthcare professionals during an 8-month follow-up period after the initial COVID-19 vaccine rollout. Researchers investigated the effectiveness and durability of the vaccine in the context of new variants of the virus.

Robilotti EV, Whiting K, Lucca A, Poon C, Jani K, McMillen T, Freeswick S, Babady NE, Seshan VE, Kamboj M. Effectiveness of MRNA booster vaccine among healthcare workers in New York City during the Omicron surge, December 2021 to January 2022. Clinical Microbiology and Infection. 2022;28(12):1624-1628. PMCID: PMC9345790

In this retrospective study, the authors compared the effectiveness of receiving two doses of mRNA vaccines versus three doses in 21,557 healthcare workers employed at MSKCC. The study looked at the data from December 15, 2020 to January 15, 2022.

Rocco N, **Montagna G**, Di Micco R, Benson J, Criscitiello C, Chen L, Di Pace B, Colmenarejo AJE, Harder Y, Karakatsanis A, Maglia A, Mele M, Nafissi N, Ferreira PS, Taher W, Tejerina A, Vinci A, Nava M, Catanuto G. The Impact of the COVID-19 pandemic on surgical management of breast cancer: Global trends and future perspectives. Oncologist. 2021 Jan;26(1):e66-e77. **PMCID: PMC7675306**

This paper reports on the findings of a panel of 12 breast surgeons and a Web-based poll created to investigate the changes in surgical practice due to the COVID-19 pandemic among breast surgeons from several countries worldwide.

Rodino KG, Peaper DR, Kelly BJ, Bushman F, Marques A, Adhikari H, Tu ZJ, Marrero Rolon R, Westblade LF, Green DA, Berry GJ, Wu F, Annavajhala MK, Uhlemann AC, Parikh BA, **McMillen T**, **Jani K**, **Babady NE**, Hahn AM, Koch RT, Grubaugh ND, Yale SARS-CoV-2 Genomic Surveillance Initiative, Rhoads DD. Partial ORFlab gene target failure with Omicron BA.2.12.1. Journal of Clinical Microbiology. 2022;60(6):e0060022. **PMCID: PMC9199403**

This article describes a particular indicator of a SARS-CoV-2 variant (Omicron BA.2.12.1) with both high diagnostic sensitivity and specificity, that may provide a method for rapid detection of the variant.

Rognvaldsson S, Eythorsson E, Thorsteinsdottir S, Vidarsson B, Onundarson PT, Agnarsson BA, Sigurdardottir M, Thorsteinsdóttir I, Olafsson I, Runolfsdottir HL, Helgason D, Emilsdottir AR, Agustsson AS, Bjornsson AH, Kristjansdottir G, Thordardottir AR, Indridason OS, Jonsson A, Gislason GK, Olafsson A, Steingrimsdottir H, Kampanis P, **Hultcrantz M**, Durie BGM, Harding S, Landgren O, Palsson R, Love TJ, Kristinsson SY. Monoclonal gammopathy of undetermined significance and COVID-19: A population-based cohort study. Blood Cancer Journal. 2021;11(12):191. **PMCID: PMC8635472**

In this cohort study of 75,422 Icelandic patients, the authors studied the impact of

monoclonal gammopathy of undetermined significance (MGUS) on being infected with COVID-19 and the severity of the disease.

Roman A, Pineiro AV. Nursing communication skills training: Added importance during crises. Journal for Nurses in Professional Development. 2022. Epub ahead of print.

This article describes how nursing communication and communication skills training are vital during times of crisis such as during the COVID-19 pandemic, and how the pandemic impacted the design of a communication skills training program.

Romano K, Rodrigue D. The demand for change: How nurse leaders reframed the nurse orientation process during the COVID 'Great Resignation Era'. Nurse Leader. 2022. Epub ahead of print.

A description of how nurse leaders modified traditional orientation methods in response to the COVID pandemic and staff turnover, with examples of quotes from preceptees and preceptors.

Rosa WE, Ferrell BR, Mazanec P. Global integration of palliative nursing education to improve health crisis preparedness. Journal of Continuing Education in Nursing. 2021;52(3):130-135.

PMCID: PMC8051640

The authors use the framework of the National Consensus Project Clinical Practice Guidelines for Quality Palliative Care to explore ways to improve nurse education about palliative care.

Rosa WE, Karanja V, Kpoeh JDN, McMahon C, Booth J. A virtual coaching workshop for a

nurse-led community-based palliative care team in Liberia, West Africa, to promote staff well-being during COVID-19. Nursing Education Perspectives. 2021;42(6):E194-E196. **PMCID: PMC8574983**

The authors describe their experiences with a 90-minute Partners in Health teleconference with Liberian nurses on challenges and fears related to working during the pandemic.

Rosa WE, Lynch KA, Hadler RA, Mahoney C, Parker PA. "Doing palliative care with my hands tied behind my back": Telepalliative care delivery for oncology inpatients during a COVID-19 surge. Translational Behavioral Medicine. 2022;12(7):816-824. PMCID: PMC9214169

In this study, the authors interviewed 11 palliative specialists from diverse roles, such as "... social workers, pharmacists, chaplaincy services, physicians, and advanced practice providers," providing telehealth care. The participants shared their experience with telepalliative care, reporting on challenges and facilitators.

Rosa WE, Lynch KA, Hadler RA, Mahoney C, Parker PA. "It took away and stripped a part of myself": Clinician distress and recommendations for future telepalliative care delivery in the cancer context. American Journal of Hospice & Palliative Medicine. 2023;40(2):235-243. PMCID: PMC9663759

This study explored the experiences of a multidisciplinary palliative care team delivering telepalliative care for oncology inpatients during the peak of the COVID-19 pandemic in New York City. The interviews conducted during the study identified clinician distress as a primary experience stemming from the chal-

lenges of the situation. Participants provided detailed recommendations to improve telepalliative care delivery for hospitalized oncology patients in the future.

Rubenstein RN, Stern CS, Plotsker EL, Haglich K, Tadros AB, Mehrara BJ, Matros E, Nelson JA. Effects of COVID-19 on mastectomy and breast reconstruction rates: A national surgical sample. Journal of Surgical Oncology. 2022;126(2):205-213. PMCID: PMC9088456

Using the National Surgical Quality Improvement Program, the authors show that during the first year of the COVID-19 pandemic there was an 11% decline in breast cancer surgeries.

Rusch VW, Wexner SD, in collaboration with the American College of Surgeons COVID-19 Communications Committee, Board of Regents, and Officers. The American College of Surgeons Responds to COVID-19. Journal of the American College of Surgeons. 2020;231(4):490-496. **PMCID: PMC7358152**

This article describes the efforts made by the American College of Surgeons and its multiple divisions to support medical professionals in addressing the challenges presented by the COVID-19 pandemic. These efforts also included support to cancer programs by creating guidelines on managing cancer patients during the pandemic.

Sacramento CQ, Fintelman-Rodrigues N, Temerozo JR, Da Silva APD, Dias SDSG, da Silva CDS, Ferreira AC, Mattos M, Pão CRR, de Freitas CS, Soares VC, Hoelz LVB, Fernandes TVA, Branco FSC, Bastos MM, Boechat N, Saraiva FB, Ferreira MA, Jockusch S, Wang X, Tao C, Chien M, Xie W, Patel D, Garzia A, Tuschl T, Russo JJ, Rajoli RKR, Pedrosa CSG, Vitória G, Souza LRQ, Goto-Silva L, Guimarães MZ, Rehen SK, Owen A, Bozza FA, Bou-Habib DC, Ju J, Bozza PT, Souza TML. In vitro antiviral activity of the anti-HCV drugs daclatasvir and sofosbuvir against SARS-CoV-2, the aetiological agent of COVID-19. Journal of Antimicrobial Chemotherapy. 2021;76(7):1874-1885. PMCID: PMC8083231

This article reports on the research into 2 drugs, sofosbuvir and daclatasvir, that belong to the anti-HCV class of drugs. The laboratory research confirmed that the drugs in question have potential for treating COVID-19 infection, but that further research is needed.

Samson P, Ning MS, **Shaverdian N**, **Shepherd AF**, **Gomez DR**, McGinnis GJ, Nitsch PL, Chmura S, O'Reilly MS, Lee P, Chang JY, Robinson C, Lin SH. Clinical and radiographic presentations of COVID-19 among patients receiving radiation therapy for thoracic malignancies. Advances in Radiation Oncology. 2020;5(4):700-704. **PMCID: PMC7212983**

A case series of how COVID-19 presented in three lung cancer patients receiving radiation therapy.

Sarfaty M, Feldman DR, Morris MJ, Motzer RJ, Rathkopf DE, Regazzi AM, Iyer G, Voss MH, Bajorin DF, Rosenberg JE. Genitourinary medical oncology expert opinion survey regarding treatment management in the COVID-19 pandemic. Clinical Genitourinary Cancer. 2021;19(3):e178-e183. PMCID:

PMC7787909

This article reports the results of a survey sent to experts involved in the management of genitourinary cancers in Europe and North

America. The survey was intended to collect information about the changes in practice patterns that occurred because of the pandemic.

Satyanarayana G, Enriquez KT, Sun T, Klein EJ, Abidi M, Advani SM, Awosika J, Bakouny Z, Bashir B, Berg S, Bernardes M, Egan PC, Elkrief A, Feldman LE, Friese CR, Goel S, Gomez CG, Grant KL, Griffiths EA, Gulati S, Gupta S, Hwang C, Jain J, Jani C, **Kaltsas A**, Kasi A, Khan H, Knox N, Koshkin VS, Kwon DH, Labaki C, Lyman GH, McKay RR, McNair C, Nagaraj G, Nakasone ES, Nguyen R, Nonato TK, Olszewski AJ, Panagiotou OA, Puc M, Razavi P, Robilotti EV, Santos-Dutra M, Schmidt AL, Shah DP, Shah SA, Vieira K, Weissmann LB, Wise-Draper TM, Wu U, Wu JTY, Choueiri TK, Mishra S, Warner JL, French B, Farmakiotis D, on behalf of the COVID-19 and Cancer Consortium (CCC19). Coinfections in patients with cancer and COVID-19: A COVID-19 and Cancer Consortium (CCC19) Study. Open Forum Infectious Diseases. 2022;9(3):ofac037. PMCID: PMC8860152

This study identified factors associated with the risk of coinfection in cancer patients with COVID-19 with other infections (bacterial, viral, and fungal). Clinical and laboratory indicators can guide antimicrobial therapy, which may improve clinical outcomes.

Sauter JL, Baine MK, Butnor KJ, Buonocore DJ, Chang JC, Jungbluth AA, Szabolcs MJ, Morjaria S, Mount SL, Rekhtman N, Selbs E, Sheng ZM, Xiao Y, Kleiner DE, Pittaluga S, Taubenberger JK, Rapkiewicz AV, Travis WD. Insights into pathogenesis of fatal COVID-19 pneumonia from histopathology with immunohistochemical and viral RNA studies. Histopathology. 2020;77(6):915-925. PMCID: PMC7361244

This article describes post-mortem pathology findings from patients who died of COVID-19 pneumonia, including the wide spectrum of progression from rapid to prolonged disease course.

Savitt AG, Manimala S, White T, Fandaros M, Yin W, Duan H, Xu X, Geisbrecht BV, Rubenstein DA, Kaplan AP, **Peerschke EI**, Ghebrehiwet B. SARS-CoV-2 exacerbates COVID-19 pathology through activation of the complement and kinin systems. Frontiers in Immunology. 2021;12:767347. **PMCID: PMC8602850**

In this paper, the researchers analyzed four major proteins from the genome of SARS-CoV-2 to understand if they were all involved in triggering the life-threatening cytokine storm.

Sayman HB, Toplutas KN, Tunick J, **Aras O**. (99m)Tc-Vitamin C SPECT/CT imaging in SARS-CoV-2 associated pneumonia. Nuclear Medicine Review. 2022;25(2):127-128. **PMCID: PMC9878461**

The authors present imaging using lung 99mTc-Vitamin C SPECT/CT from two patients. Those images may help identify lung damage and its potential progression.

Scarci M, Raveglia F, Bortolotti L, Benvenuti M, Merlo L, Petrella L, Cardillo G, **Rocco G**. COVID-19 after lung resection in northern Italy. Seminars in Thoracic and Cardiovascular Surgery. 2022;34(2):726-732. **PMCID: PMC8111882**

This multicenter study looked at the impact of COVID-19 on thoracic surgical patients, exploring the postoperative and recovery time outcomes of 107 patients who underwent lung resection from December 2019 to March 2020, twelve of which devel-

oped COVID-19. Patients who developed symptoms were at a possible higher risk of death, and factors such as BMI, smoking history, DLCO/VA%, number of resected segments and duration of surgery possibly put thoracic surgical patients at greater risk.

Schluter C, Fefer M, Lee G, Alty IG, **Dee EC**. Investigation of the readability and reliability of online health information for cancer patients during the coronavirus pandemic. Journal of Cancer Education. 2022. Epub ahead of print.

PMCID: PMC9038169

Online health information relating to COVID-19 and cancer was found to be of good quality but received readability scores significantly above the recommended grade level 6.

Schmidt AL, Tucker MD, Bakouny Z, Labaki C, Hsu CY, Shyr Y, Armstrong AJ, Beer TM, Bijjula RR, Bilen MA, Connell CF, Dawsey SJ, Faller B, Gao X, Gartrell BA, Gill D, Gulati S, Halabi S, Hwang C, Joshi M, Khaki AR, Menon H, Morris MJ, Puc M, Russell KB, Shah NJ, Sharifi N, Shaya J, Schweizer MT, Steinharter J, Wulff-Burchfield EM, Xu W, Zhu J, Mishra S, Grivas P, Rini BI, Warner JL, Zhang T, Choueiri TK, Gupta S, McKay RR. Association between androgen deprivation therapy and mortality among patients with prostate cancer and COVID-19. JAMA Network Open. 2021;4(11):e2134330.

PMCID: PMC8590166

This study investigated whether being on androgen deprivation therapy (ADT) is associated with decreased rate of 30-day mortality from COVID-19 among patients with prostate cancer. Findings based on a cohort of 1106 male patients did "...not support the hypothesis that ADT may be useful in reducing

the mortality or severity of SARS-CoV-2 infection" as no statistically significant difference was observed. Further ongoing prospective trials will explore the potential role for ADT in affecting the course or outcomes of COVID-19 infection.

Schneider WM, Luna JM, Hoffmann HH, Sàn-chez-Rivera FJ, Leal AA, Ashbrook AW, Le Pen J, Ricardo-Lax I, Michailidis E, Peace A, Stenzel AF, Lowe SW, MacDonald MR, Rice CM, Poirier JT. Genome-scale identification of SARS-CoV-2 and pan-coronavirus host factor networks. Cell. 2021;184(1):120-132.e14. PMCID: PMC7796900

This article reports on a study into the cellular level of processes associated with SARS-CoV-2 and other coronavirus infections. It contributes to the knowledge base of the biology of coronavirus infections.

Schuler BA, Habermann AC, Plosa EJ, Taylor CJ, Jetter C, Negretti NM, Kapp ME, Benjamin JT, Gulleman P, Nichols DS, **Braunstein LZ**, Hackett A, Koval M, Guttentag SH, Blackwell TS, Webber SA, Banovich NE, Vanderbilt COVID-19 Consortium Cohort, **Human Cell Atlas Biological Network**, Kropski JA, Sucre JMS. Age-determined expression of priming protease TMPRSS2 and localization of SARS-CoV-2 in lung epithelium. Journal of Clinical Investigation. 2021;131(1):e140766. **PMCID: PMC7773394**

The authors researched whether genes involved in a person's susceptibility to SARS-COV-2 change their expression during development, and if this might impact the growing seriousness of COVID-19 over the age span.

Sciubba DM, Ehresman J, Pennington Z, Lubelski D, Feghali J, Bydon A, Chou D, Elder BD, Elsamadicy AA, Goodwin CR, Goodwin ML, Harrop J, Klineberg E, **Laufer I**, Lo SL, Neuman BJ, Passias PG, Protopsaltis T, Shin JH, Theodore N, Witham TF, Benzel EC. Scoring system to triage patients for spine surgery in the setting of limited resources: Application to the coronavirus disease 2019 (COVID-19) pandemic and beyond. World Neurosurgery. 2020;140:e373-e380. **PMCID: PMC7256646**

The authors describe a quantitative urgency scoring system that was generated to guide the triage and prioritizing of spine surgery cases in resource-limited settings, both during the COVID pandemic and post-COVID period.

Shah GL, DeWolf S, Lee YJ, Tamari R, Dahi PB, Lavery JA, Ruiz J, Devlin SM, Cho C, Peled JU, Politikos I, Scordo M, Babady NE, Jain T, Vardhana S, Daniyan AF, Sauter CS, Barker JN, Giralt SA, Goss C, Maslak P, Hohl TM, Kamboj M, Ramanathan L, van den Brink MR, Papadopoulos E, Papanicolaou G, Perales MA. Favorable outcomes of COVID-19 in recipients of hematopoietic cell transplantation. Journal of Clinical Investigation. 2020;130(12):6656-6667. PMCID: PMC7685738

In this study, the authors report favorable clinical outcomes for COVID-19-positive patients who received cellular therapies (Allo, Auto, or CAR T therapy). Their research will help other transplant centers with decision-making.

Shah N, Dahi PB, Ponce DM, Sauter CS, Shaffer BC, Chung DJ, Politikos I, Lin RJ, Giralt SA, Papanicolaou G, Ramanathan L V, Perales MA, Kamboj M, Shah GL, Gyurkocza B. Hematopoietic cell transplantation is feasible in patients with prior COVID-19 infection. Transplantation and Cellular Therapy. 2022;28(1):55. e1-55.e5. **PMCID: PMC8503970**

A retrospective study of 15 patients with past COVID-19 infections finds that subsequent hematopoietic cell transplantations can be performed safely.

Shah NJ, Patel VG, Zhong X, Pina L, Hawley JE, Lin E, Gartrell BA, Febles VA, Wise DR, Qin Q, Mellgard G, Joshi H, Nauseef JT, Green DA, Vlachostergios PJ, Kwon DH, Huang F, Liaw B, Tagawa S, **Kantoff P**, **Morris MJ**, Oh WK. The impact of androgen deprivation therapy on COVID-19 illness in men with prostate cancer. JNCI Cancer Spectrum. 2022;6(3):pkac035.

PMCID: PMC9165550

This retrospective cohort multicenter study (7 US medical centers) looked at prostate cancer patients with a confirmed COVID-19 diagnosis over a 3-month period early in the pandemic. Clinical data was collected on 465 patients and analyzed but no statistically significant relationship was found to exist between androgen deprivation therapy use and more severe COVID-19 illness outcomes.

Sharma A, Bhatt NS, St Martin A, Abid MB, Bloomquist J, Chemaly RF, Dandoy C, Gauthier J, Gowda L, **Perales MA**, Seropian S, Shaw BE, Tuschl EE, Zeidan AM, Riches ML, **Shah GL**. Clinical characteristics and outcomes of COVID-19 in haematopoietic stem-cell transplantation recipients: An observational cohort study. Lancet Haematology. 2021;8(3):e185-e193.

PMCID: PMC7816949

This study analyzes data collected across multiple institutions by the Center for Interna-

tional Blood and Marrow Transplant Research (CIBMTR) using a special form created to capture COVID-19-related data on HSCT recipients between March 27, 2020 and Aug 12. 2020. The authors reported a "...30 day survival from COVID-19 of only approximately 70%" in this patient group.

Shaverdian N. Gillespie EF. Cha E. Kim SY, Benvengo S, Chino F, Kang JJ, Li Y, Atkinson TM, Lee N, Washington CM, Cahlon O, Gomez DR. Impact of telemedicine on patient satisfaction and perceptions of care quality in radiation oncology. Journal of the National Comprehensive Cancer Network. 2021;19(10):1174-1180. PMCID: PMC8254817

This study, conducted at Memorial Sloan Kettering Cancer Center, compared patient satisfaction with office visits in Radiation Oncology practice before the pandemic with telemedicine consultations during the pandemic (specifically, the first half of 2020). Patient preferences for office and telemedicine consultations and identified predictors of patient preferences for either of these types of visits were assessed.

Shi R, Zhang H, Morris Q. PAN-cODE: COVID-19 forecasting using conditional latent ODEs. Journal of the American Medical Informatics Association, 2022;29(12):2089-2095, PMCID: PMC9667190

Using COVID-19 as an example, the authors present PAN-cODE, an artificial intelligence method to forecast daily increases in pandemic infections and mortality. Such forecasting facilitates informed policy decisions on the introduction of non-pharmaceutical interventions to reduce infection spread.

Siddig MM, Chan AT, Miorin L, Yadaw AS, Beaumont KG, Kehrer T, Cupic A, White KM, Tolentino RE, Hu B, Stern AD, Tavassoly I. Hansen J. Sebra R. Martinez P. Prabha S. Dubois N. Schaniel C. Ivengar-Kapuganti R, Kukar N, Giustino G, Sud K, Nirenberg S, Kovatch P. Albrecht RA. Goldfarb J. Croft L. McLaughlin MA, Argulian E, Lerakis S, Narula J, García-Sastre A, Iyengar R. Functional effects of cardiomyocyte injury in COVID-19. Journal of Virology, 2022;96(2):e01063-21. PMCID:

PMC8791272

This article reports on a study which explored how COVID-19 affects heart health, specifically cardiomyocytes (cardiac muscle cells), of people without a history of heart disease.

Siegler JE, Boreskie PE, Strowd R, Rook R, Goss A, Al-Mufti F, Rossow B, Miller A, Chamberlain A, London Z, Hurley J, Geocadin R, Richie M, Isaacson R, Rybinnik I, Chan TM. Neurology podcast utilization during the COVID-19 pandemic. Neurological Sciences. 2021;42(11):4437-4445. PMCID: PMC8357627

This study looked at academic neurology-themed podcasts, and whether the COVID-19 pandemic impacted the utilization of these podcasts. The study found that there was no significant increase in downloads during the early months of the pandemic, but that more general and other subspecialty podcasts would be analyzed.

Silverberg JI, Zyskind I, Naiditch H, Zimmerman J, Glatt AE, Pinter A, Theel ES, Joyner MJ, Hill DA, Lieberman MR, Bigajer E, Stok D, Frank E, Rosenberg AZ. Association of varying clinical

manifestations and positive anti-SARS-CoV-2 IgG antibodies: A cross-sectional observational study. Journal of Allergy and Clinical Immunology: In Practice. 2021;9(9):3331-3338. e2. **PMCID: PMC8279919**

This research paper surveyed 9507 adults to look at the association between COVID-19 symptoms and the antibody response.

Silverberg JI, Zyskind I, Naiditch H, Zimmerman J, Glatt AE, Pinter A, Theel ES, Joyner MJ, Hill DA, Lieberman MR, Bigajer E, Stok D, Frank E, Rosenberg AZ. Predictors of chronic COVID-19 symptoms in a community-based cohort of adults. PLoS One. 2022;17(8):e0271310.

PMCID: PMC9352033

In this longitudinal observational study conducted before COVID-19 vaccines' availability, the authors studied chronic COVID-19 symptoms among 390 adults from 5 U.S. states.

Singh A, Garg A, Mandlik D, Vander Poorten V. Patel SG. O'Neill JP. Spriano G. Shaha A. Chaturvedi P, Cernea C, Shah J. Assessing the quality of life of head and neck healthcare workers during the COVID-19 pandemic - A self-reported global cross-sectional questionnaire study by the International Federation of Head and Neck Oncologic Societies. Journal of Surgical Oncology. 2021;124(4):476-482.

This paper reports on a cross-sectional self-reported QOL assessment administered between July and September 2020 to 979 individuals (from 53 countries), including surgeons, physicians, dentists, and nurses who see patients with head and neck diseases. Factors that adversely influenced the QOL of head and neck healthcare workers during

the early period of the COVID pandemic were characterized.

Singh A, Garg A, Mandlik D, Vander Poorten V, Patel SG, O'Neill JP, Spriano G, Shaha A, Chaturvedi P, Cernea C, Shah J. Assessing the quality of life of head and neck healthcare workers during the COVID-19 pandemic - A self-reported global cross-sectional questionnaire study by the International Federation of Head and Neck Oncologic Societies. Journal of Surgical Oncology. 2021;124(4):476-482.

This article reports on the results of an international survey on the quality of life among health practitioners caring for Head and Neck Cancer patients during the COVID-19 pandemic.

Siotos C, Ferraro J, Horen SR, Siotou K, **Lopez** J, Dorafshar AH. Plastic surgeons and their financial relationships with the industry in the era of COVID: Insights from the Physician Payments Sunshine Act. Aesthetic Plastic Surgery. 2022;46(6):3111-3116. **PMCID:**

PMC9122547

The study compared industry payments to plastic surgeons before and during the COVID-19 pandemic and found that the pandemic had a significant impact on such payments.

Smith M, Lara OD, O'Cearbhaill R, Knisely A, McEachron J, Gabor L, Carr C, Blank S, Prasad-Hayes M, Frey M, Jee J, Fehniger J, Wang Y, Lee YC, Isani S, Wright JD, Pothuri B. Inflammatory markers in gynecologic oncology patients hospitalized with COVID-19 infection. Gynecologic Oncology. 2020;159(3):618-622. PMCID: PMC7518173

This article assessed a variety of inflam-

matory markers to see if any were predictive of COVID-19 in gynecological cancer patients. They found that ferritin, procalcitonin, and CRP may have prognostic value, as well as elevated white blood cell count, lactate, and creatinine at admission, whereas D-dimers were not found to be predictive of severe COVID-19 infection.

Sobrado LF, Nahas CSR, Margues CFS, de Castro Cotti GC, Imperiale AR, Averbach P, de Meira Júnior JD, Horvat N, Ribeiro-Júnior U, Cecconello I, Nahas SC. Is it safe to perform elective colorectal surgical procedures during the COVID-19 pandemic? A single institution experience with 103 patients. Clinics. 2021;76:e2507. PMCID: PMC7955150

The study was conducted by a group of researchers from Brazil to evaluate the safety of performing elective surgery for colorectal cancer and Inflammatory Bowel Disease at the time of the COVID-19 pandemic. This retrospective study evaluated the outcomes of elective laparoscopic, open, and robotic colorectal surgeries performed at a single tertiary oncological hospital between March 10 and September 9, 2020. The study established those elective colorectal surgeries could be safely performed during the pandemic but preoperative screening for SARS-CoV-2 should be done to decrease the risk of in-hospital cross infection.

Stahl M, Narendra V, Jee J, Derkach A, Maloy M, Geyer MB, Mato AR, Roeker LE, Tallman MS, Shah GL, Daniyan A, Goldberg AD. Neutropenia in adult acute myeloid leukemia patients represents a powerful risk factor for COVID-19 related mortality. Leukemia and Lymphoma. 2021;62(8):1940-1948.

This research article found that patients with hematological cancers were at significantly higher risk for poorer outcomes when diagnosed with COVID-19. They found that a diagnosis of AML, active treatment in the previous 3 months, neutropenia within 7 days prior to and within 28 days after COVID-19 diagnosis, or more than 3 comorbidities, all increased odds of death.

Starr TN, Czudnochowski N, Liu Z, Zatta F, Park YJ, Addetia A, Pinto D, Beltramello M, Hernandez P, Greaney AJ, Marzi R, Glass WG, Zhang I, Dingens AS, Bowen JE, Tortorici MA, Walls AC, Wojcechowskyj JA, De Marco A, Rosen LE, Zhou J, Montiel-Ruiz M, Kaiser H, Dillen JR, Tucker H, Bassi J, Silacci-Fregni C, Housley MP, di Iulio J, Lombardo G, Agostini M, Sprugasci N, Culap K, Jaconi S, Meury M, Dellota E Jr, Abdelnabi R, Foo SYC, Cameroni E, Stumpf S, Croll TI, Nix JC, Havenar-Daughton C, Piccoli L, Benigni F, Neyts J, Telenti A, Lempp FA, Pizzuto MS, Chodera JD, Hebner CM, Virgin HW, Whelan SPJ, Veesler D, Corti D, Bloom JD, Snell G. SARS-CoV-2 RBD antibodies that maximize breadth and resistance to escape. Nature. 2021;597(7874):97-

102. PMCID: PMC9282883

This article describes how antibodies are used to neutralize the SARS-CoV-2 virus by targeting their receptor-binding domain. The data reported shows how these antibodies work, and how this research can be used for therapeutics against both SARS-CoV-2 infection as well as potential future pandemics.

Stavrou E, Qiu J, Zafar A, Tramontano AC, Isakoff S, Winer E, Schrag D, Manz C. Breast medical oncologists' perspectives of telemedi-

cine for breast cancer care: A survey study. JCO Oncology Practice. 2022;18(9):e1447-e1453. **PMCID: PMC9509057**

Results of an electronically administered survey of 51 breast medical oncology clinicians to evaluate their perspectives on the use of telemedicine for outpatient breast cancer care, given its rise during the COVID-19 pandemic.

Steffanoni S, Calimeri T, Laurenge A, Fox CP, Soussain C, **Grommes C**, Tisi MC, Boot J, Crosbie N, Visco C, Arcaini L, Chaganti S, Sassone MC, Alencar A, Armiento D, Romano I, Dietrich J, Itchaki G, Bruna R, Fracchiolla NS, Arletti L, Venditti A, Booth S, Musto P, Hoang Xuan K, Batchelor TT, Cwynarski K, Ferreri AJM. Impact of severe acute respiratory syndrome coronavirus-2 infection on the outcome of primary central nervous system lymphoma treatment: A study of the International PCNSL Collaborative Group. British Journal of Haematology. 2022;199(4):507-519. **PMCID: PMC9538907**

The authors studied the presentation, management, and outcomes in patients with primary central nervous system lymphoma and SARS-CoV-2 infection.

Steinberger S, Finkelstein M, **Pagano A**, Manna S, Toussie D, Chung M, Bernheim A, Concepcion J, Gupta S, Eber C, Dua S, Jacobi AH. Barotrauma in COVID 19: Incidence, pathophysiology, and effect on prognosis. Clinical Imaging. 2022;90:71-77. **PMCID: PMC9238026**

A retrospective study of 363 patients with COVID-19 between March 1, 2020, and April 8, 2020, with authors noting barotrauma is a frequent complication of mechanically ventilated COVID-19 patients and those with barotrauma

have a higher rate of pneumothorax and an increased risk of death.

Su C, Zhang Y, **Flory JH**, Weiner MG, Kaushal R, Schenck EJ, Wang F. Clinical subphenotypes in COVID-19: Derivation, validation, prediction, temporal patterns, and interaction with social determinants of health. npj Digital Medicine. 2021;4:110. **PMCID: PMC8280198**

This retrospective study looked at nearly 15,000 COVID-19 patients in NYC in the early surge of the pandemic. The authors identified four biologically distinct subphenotypes which were highly predictive of clinical outcomes. For one subphenotype (IV) it was found that mortality was highly correlated to social determinants of health, specifically age, comorbidities, and clinical manifestation of disease. The findings provide a more complete understanding of how COVID-19 impacts different populations.

Sungnak W, Huang N, Bécavin C, Berg M, Queen R, Litvinukova M, Talavera-López C, Maatz H, Reichart D, Sampaziotis F, Worlock KB, Yoshida M, Barnes JL; **HCA Lung Biological Network**. SARS-CoV-2 entry factors are highly expressed in nasal epithelial cells together with innate immune genes. Nature Medicine. 2020;26(5):681-687. **PMCID: PMC8637938**

An investigation of how the virus that causes COVID-19 binds to a person's cells, and how genetic expression in cells throughout the body impacts this process and disease transmission.

Magro C, **Mulvey JJ**, Berlin D, Nuovo G, Salvatore S, Harp J, Baxter-Stoltzfus A, Laurence J. Complement associated microvascular injury

and thrombosis in the pathogenesis of severe COVID-19 infection: A report of five cases. Translational Research. 2020;220:1-13. **PMCID: PMC7158248**

The researchers compared the pathology of COVID-19 to the more familiar acute respiratory distress syndrome.

Szabolcs M, Sauter JL, Frosina D, Geronimo JA, Hernandez E, Selbs E, Rapkiewicz AV, Rekhtman N, Baine MK, Jäger E, Travis WD, Jungbluth AA. Identification of immunohistochemical reagents for in situ protein expression analysis of coronavirus-associated changes in human tissues. Applied Immunohistochemistry & Molecular Morphology. 2021;29(1):5-12. PMCID: PMC7713639

SARS-CoV2 is known to cause severe pulmonary disease but may also involve other organs, making the proper assessment of virus-related pathomorphological changes in specimens valuable for better understanding COVID-19. This study investigated the usefulness of commercially available monoclonal antibodies for detecting viral antigens in standard archival pathological specimens.

Szenes V, Bright R, Diotallevi D, Melendez G, Martinez C, Zakak N, Killinger J, Gilheeney S, Roberts SS, Kamboj M, Bender JG, Kung AL, Boulad F. Stepwise strategic mitigation planning in a pediatric oncology center during the COVID-19 pandemic. Journal of Pediatric Oncology Nursing. 2021;38(3):176-184. PMCID: PMC9274116

This paper describes a model developed by MSK Kids during the COVID-19 pandemic for planning continued preparedness that will anticipate "...the need to develop plans for the

screening, testing, and treating of patients, as well as specific mitigation plans."

Taghvaei A, Georgiou TT, **Norton L**, Tannenbaum A. Fractional SIR epidemiological models. Scientific Reports. 2020;10:20882. **PMCID: PMC7705759**

The authors recommend a change to epidemiological models to better represent transmission dynamics.

Tamari R, Politikos I, Knorr DA, Vardhana SA, Young JC, Marcello LT, Doddi S, Devlin SM, Ramanathan LV, Pessin MS, Dunn E, Palazzo M, Bravo CD, Papanicolaou GA, Kamboj M, Perales MA, Chung DJ, Shah GL. Predictors of humoral response to SARS-CoV-2 vaccination after hematopoietic cell transplantation and CAR T-cell therapy. Blood Cancer Discovery. 2021;2(6):577-585. PMCID: PMC8580614

The immune response to mRNA COVID vaccines in 217 cancer patients receiving cellular therapies was high. The timing of vaccination after treatment impacted the response.

Taya M, Paroder V, Redelman-Sidi G, Gangai N, Golia Pernicka JS, Gollub MJ, Javed-Tayyab S, Petkovska I, Bates DDB. Abdominal imaging findings on computed tomography in patients acutely infected with SARS-CoV-2: What are the findings? Emergency Radiology. 2021;28(6):1087-1096. PMCID: PMC8487449

This retrospective cross-sectional study conducted at a tertiary oncologic center looked at the contrast-enhanced CT of the abdomen and pelvis of 63 patients with COVID-19. The most common new imaging abnormality found in this study's cohort was "...features of gastric

or bowel thickening, followed by small volume ascites, gallbladder distention, and isolated cases of pancreatitis and portal vein thrombosis."

Tevaarwerk AJ, Chandereng T, Osterman T, Arafat W, Smerage J, **Polubriaginof FCG**, Heinrichs T, Sugalski J, Martin DB. Oncologist perspectives on telemedicine for patients with cancer: A National Comprehensive Cancer Network survey. JCO Oncology Practice. 2021;17(9):e1318-e1326. **PMCID: PMC9810123**

With the COVID-19 pandemic accelerating the adoption of telemedicine, this survey of over one thousand oncologists from 26 institutions investigated the providers' assessment of telemedicine used with cancer patients. The results suggested that respondents viewed telemedicine "... as safe and effective for cancer care within certain clinical scenarios" and demonstrated "... an ongoing role for telemedicine in oncology."

Thom B, Benedict C, **Friedman DN**, Watson SE, Zeitler MS, **Chino F**. Economic distress, financial toxicity, and medical cost-coping in young adult cancer survivors during the COVID-19 pandemic: Findings from an online sample. Cancer. 2021;127(23):4481-4491. **PMCID: PMC8426858**

This study used a survey to look at the financial situation of young adult cancer survivors in the COVID-19 pandemic. The study found that the pandemic significantly worsened cancer-related financial toxicity and overall financial hardship in this category of patients and led to test or treatment skipping and other such behaviors that jeopardized survivorship care and health outcomes.

Thompson MA, Henderson JP, Shah PK, Rubinstein SM, Joyner MJ, Choueiri TK, Flora DB, Griffiths EA, Gulati AP, Hwang C, Koshkin VS, **Papadopoulos EB, Robilotti EV**, Su CT, Wulff-Burchfield EM, Xie Z, Yu PP, Mishra S, Senefeld JW, Shah DP, Warner JL. Association of convalescent plasma therapy with survival in patients with hematologic cancers and COVID-19. JAMA Oncology. 2021;7(8):1167-1175. **PMCID: PMC8377563**

This original research describes the potential benefit of convalescent plasma for patients with hematological cancer and COVID-19 infection.

Thomson EC, Rosen LE, Shepherd JG, Spreafico R, da Silva Filipe A, Wojcechowskyj JA, Davis C, Piccoli L, Pascall DJ, Dillen J, Lytras S, Czudnochowski N, Shah R, Meury M, Jesudason N, De Marco A, Li K, Bassi J, O'Toole A, Pinto D, Colquhoun RM, Culap K, Jackson B, Zatta F, Rambaut A, Jaconi S, Sreenu VB, Nix J, Zhang I, Jarrett RF, Glass WG, Beltramello M, Nomikou K, Pizzuto M, Tong L, Cameroni E, Croll TI, Johnson N, Di Iulio J, Wickenhagen A, Ceschi A, Harbison AM, Mair D, Ferrari P, Smollett K, Sallusto F, Carmichael S, Garzoni C, Nichols J, Galli M, Hughes J, Riva A, Ho A, Schiuma M, Semple MG, Openshaw PJM, Fadda E, Baillie JK, Chodera JD, The ISARIC4C Investigators, the COVID-19 Genomics UK (COG-UK) consortium, Rihn SJ, Lycett SJ, Virgin HW, Telenti A, Corti D, Robertson DL, Snell G. Circulating SARS-CoV-2 spike N439K variants maintain fitness while evading antibody-mediated immunity. Cell. 2021;184(5):1171-1187.e20.

PMCID: PMC7843029

This research article demonstrates how the COVID-19 mutation N439K has resistance to

several of the monoclonal antibody treatments being used and reduces the activity of some the immune responses from persons who have recovered from COVID-19 infection. This research shows why ongoing molecular surveillance is necessary as vaccines and treatments are being developed.

Tiutan T, Wallins JS, Brown S, Gonen M, Korenstein D. Prognostic value of procalcitonin in cancer patients with coronavirus disease 2019. Clinical Chemistry and Laboratory Medicine. 2022;61(2):339-348. PMCID: PMC9747503

A retrospective study of 209 cancer patients hospitalized with COVID-19 who had procalcitonin recorded on admission in order to evaluate the utility of procalcitonin in predicting disease severity and death from COVID-19 in this population.

Tkacik PT, Dahlberg JL, Johnson JE, Hoth JJ, Szer RA, **Hellman SE**. Sizing of airborne particles in an operating room. PLoS One. 2021;16(4):e0249586. **PMCID: PMC8021156**

A study of the size and quantity of aerosolized particles resulting from surgery. The authors developed a method for measuring the airborne particles in an operating room setting.

Urakawa S, Hirashita T, Momose K, **Nishimura M**, Nakajima K, Milsom JW. Intraluminal gas escape from biopsy valves and endoscopic devices during endoscopy: Caution advised during the COVID-19 era. Endoscopy International Open. 2021;09(03):E443-E449. **PMCID: PMC7895664**

The authors make recommendations for endoscopic procedures based on their

research into the amount of gas leakage that occurs from a range of devices and use cases.

van den Puttelaar R, Lansdorp-Vogelaar I, **Hahn AI**, Rutter CM, Levin TR, **Zauber AG**, Meester RGS. Impact and recovery from COVID-19-related disruptions in colorectal cancer screening and care in the US: A scenario analysis. Cancer Epidemiology Biomarkers Prevention. 2023 Jan;32(1):22-29. **PMCID: PMC9827109**

Results of a study to predict the impact of COVID-19 pandemic-related delays in screening and diagnosis on colorectal cancer–related outcomes.

Vignesh S, Butt AS, Alboraie M, Martins BC, Piscoya A, Tran QT, Meng Yew DT, Ghazanfar S, Alavinejad P, Kamau E, Verma AM, **Mendelsohn RB**, Khor C, Moss A, Chih Liao DW, Huang CS, Tsai FC. Impact of COVID-19 on endoscopy training: Perspectives from a global survey of program directors and endoscopy trainers. Clinical Endoscopy. 2021;54(5):678-687. **PMCID: PMC8505182**

This study surveyed teaching faculty in gastroenterology training programs on how the COVID-19 pandemic impacted their training programs and various aspects of endoscopy training.

Wagner MJ, Hennessy C, Beeghly A, French B, Shah DP, Croessmann S, Vilar-Compte D, Ruiz-Garcia E, Ingham M, Schwartz GK, Painter CA, Chugh R, Fecher L, Park C, Zamulko O, Trent JC, Subbiah V, Khaki AR, Tachiki L, Nakasone ES, Loggers ET, Labaki C, Saliby RM, McKay RR, Ajmera A, Griffiths EA, Puzanov I, **Tap WD**, Hwang C, Tejwani S, Jhawar SR, Hayes-Lattin B, Wulff-Burchfield E, Kasi A, Reuben DY, Nagaraj G, Joshi M, Polimera H, Kulkarni AA, Esfahani K, Kwon DH, Paoluzzi L, Bilen MA, Durbin EB, Grivas P, Warner JL, Davis EJ, COVID-19 and Cancer Consortium. Demographics, outcomes, and risk factors for patients with sarcoma and COVID-19: A CCC19-registry based retrospective cohort study. Cancers. 2022;14(17):4334.

PMCID: PMC9454925

A retrospective cohort study of 281 patients with sarcoma and COVID-19 reported to the COVID-19 and Cancer Consortium (CCC19) registry between March 17, 2020 and September 30, 2021.

Wang JM, Henry C, **Lynch KA**, Nisa NA, Basabe NC, **Hernández R**, Lubetkin El. Examining the impact of COVID-19 on upper Manhattan community-based organizations: A qualitative analysis of employee focus groups. International Journal of Community Well-Being. 2022;5(4):733-751. **PMCID: PMC9396569**

The researchers examined community-based organizations (CBO) and employee perceptions of COVID-19's impact on CBO health-related services. The CBOs participating in this study were in Upper Manhattan, New York City (serving East Harlem, Central Harlem, Morningside Heights and Hamilton Heights, and Washington Heights and Inwood).

Wang JY, Roehrl MW, Roehrl VB, **Roehrl MH**. A master autoantigen-ome links alternative splicing, female predilection, and COVID-19 to autoimmune diseases. Journal of Translational Autoimmunity. 2022;5:100147. **PMCID: PMC887271**

This article describes a model of how viral infections, and specifically SARS-Cov-2 infection, can lead to autoimmune disease.

The authors identified a database of over 700 candidate autoantigens that can be further investigated regarding the large number of auto-immune-related adverse events due to COVID-19.

Wang JY, Zhang W, Roehrl MW, Roehrl VB, **Roehrl MH**. An autoantigen profile of human A549 lung cells reveals viral and host etiologic molecular attributes of autoimmunity in COVID-19. Journal of Autoimmunity. 2021;120:102644. **PMCID: PMC8075847**

The research reported in this article was aimed at exploring autoimmune symptoms caused by SARS-CoV-2 infection. The researchers created a comprehensive resource and atlas for the investigation of autoimmune sequelae of COVID-19 ("long COVID"). This is a second study resulting from this research with new contribution to the knowledge of the relationships between COVID infection and autoimmunity.

Wang JY, Zhang W, Roehrl VB, Roehrl MW, **Roehrl MH**. An autoantigen atlas from human lung HFL1 cells offers clues to neurological and diverse autoimmune manifestations of COVID-19. Frontiers in Immunology. 2022;13:831849. **PMCID: PMC8987778**

This article describes a COVID autoantigen atlas developed from the proteins from human fetal lung fibroblast HFL11 cells. This autoantigenome information contributes to a detailed molecular map that can be used to investigate neurological and autoimmune manifestations of COVID-19.

Wang X, Sacramento CQ, Jockusch S, Chaves

OA, Tao C, Fintelman-Rodrigues N, Chien M, Temerozo JR, Li X, Kumar S, **Xie W, Patel DJ**, Meyer C, Garzia A, Tuschl T, Bozza PT, Russo JJ, Souza TML, Ju J. Combination of antiviral drugs inhibits SARS-CoV-2 polymerase and exonuclease and demonstrates COVID-19 therapeutic potential in viral cell culture. Communications Biology. 2022;5:154. **PMCID: PMC8863796**

This study provides further evidence to the use of combination drugs that work against SARS-Cov-2 polymerase and exonuclease to provide better therapeutic responses for effective COVID-19 treatment.

Whisenant JG, Baena J, Cortellini A, Huang LC, Lo Russo G, Porcu L, Wong SK, Bestvina CM, Hellmann MD, Roca E, Rizvi H, Monnet I, Boudjemaa A, Rogado J, Pasello G, Leighl NB, Arrieta O, Aujayeb A, Batra U, Azzam AY, Unk M, Azab MA, Zhumagaliyeva AN, Gomez-Martin C, Blaquier JB, Geraedts E, Mountzios G, Serrano-Montero G, Reinmuth N, Coate L, Marmarelis M, Presley CJ, Hirsch FR, Garrido P, Khan H, Baggi A, Mascaux C, Halmos B, Ceresoli GL. Fidler MJ. Scotti V. Métivier AC. Falchero L, Felip E, Genova C, Mazieres J, Tapan U, Brahmer J, Bria E, Puri S, Popat S, Reckamp KL, Morgillo F, Nadal E, Mazzoni F, Agustoni F, Bar J, Grosso F, Avrillon V, Patel JD, Gomes F, Ibrahim E, Trama A, Bettini AC, Barlesi F, Dingemans AM, Wakelee H, Peters S, Horn L, Garassino MC, Torri V, On behalf of the TERAVOLT study group. A definitive prognostication system for patients with thoracic malignancies diagnosed with Coronavirus disease 2019: An update from the TERAVOLT registry. Journal of Thoracic Oncology. 2022;17(5):661-674. PMCID: PMC8804493

An international study of 1,491 patients from 18 countries found that COVID outcomes for patients with thoracic cancers depended on seven main factors, including age, cancer stage, and whether the patient developed pneumonia.

Widman AJ, Cohen B, Park V, McClure T, Wolchok J, Kamboj M. Immune-related adverse events among COVID-19-vaccinated patients with cancer receiving immune checkpoint blockade. Journal of the National Comprehensive Cancer Network. 2022;20(10):1134-1138.

Results of an electronic health record analysis of 408 cancer patients receiving immune checkpoint inhibition therapy who were vaccinated for COVID-19 between January 16 and March 27, 2021 to see whether this vaccination increases susceptibility to immune-related adverse events.

Wilson BN, Aleisa A, Menzer C, Rossi

AM. Bimatoprost drug delivery with fractional laser and microneedling for the management of COVID-19 prone positioning-induced facial atrophy and hypopigmentation. JAAD Case Reports. 2021;15:26-29. **PMCID: PMC8280367**

This case report describes a novel treatment for facial atrophy and depigmentation in a COVID-19 patient who was in prone position. The authors used a Co2 laser delivery system of the drug bimatoprost and microneedling to achieve repigmentation of the facial skin.

Wood WA, Neuberg DS, Thompson JC, **Tallman MS**, Sekeres MA, Sehn LH, Anderson KC, **Goldberg AD**, Pennell NA, Niemeyer CM, Tucker E, Hewitt K, Plovnick RM, Hicks LK. Outcomes of patients with hematologic malignancies

and COVID-19: A report from the ASH Research Collaborative Data Hub. Blood Advances. 2020;4(23):5966-5975. **PMCID: PMC7724912**

This article refers to a global public tool, ASH Research Collaborative (ASH RC) COVID-19 Registry, created to compile the data on COVID-19 in patients with leukemia and other blood cancers. The article describes the outcomes and the patterns of coronavirus disease progression as discerned from this data.

Wu JTY, de la Hoz MAA, Kuo PC, Paguio JA, Yao JS, **Dee EC**, Yeung W, Jurado J, Moulick A, Milazzo C, Peinado P, Villares P, Cubillo A, Varona JF, Lee HC, Estirado A, Castellano JM, Celi LA. Developing and validating multi-modal models for mortality prediction in COVID-19 patients: A multi-center retrospective study. Journal of Digital Imaging. 2022;35(6):1514-1529. **PMCID: PMC9255527**

This study reports on an international, multi-center effort that originated at MIT. Retrospective data was used to develop COVID-19 mortality prediction models using the "...best machine learning practices for clinical model development." These models were then tested but found to perform differently across different institutions, clinical settings, and populations.

Yan J, Steiger SN, Kodama R, Fender J, Tan C, Laracy J, Cohen N, McMillen T, Jani K, Robilotti EV, Babady NE, Seo SK, Kamboj M. Predictors of COVID-19 hospitalization after sotrovimab in hematologic malignancy patients during the BA.1 Omicron surge. Clinical Infectious Diseases. 2022:ciac916. Epub ahead of print.

Results of an observational study of 156 patients who received sotrovimab at Memorial Sloan Kettering Cancer Center in New York City during the BA.1 Omicron surge of the pandemic.

Yang L, Han Y, Nilsson-Payant BE, Gupta V, Wang P, Duan X, Tang X, Zhu J, Zhao Z, Jaffré F, Zhang T, **Kim TW**, **Harschnitz O**, Redmond D, Houghton S, Liu C, Naji A, **Ciceri G, Guttikonda S**, Bram Y, Nguyen DT, Cioffi M, Chandar V, Hoagland DA, Huang Y, Xiang J, Wang H, Lyden D, Borczuk A, Chen HJ, **Studer L**, Pan FC, Ho DD, tenOever BR, Evans T, Schwartz RE, Chen S. A human pluripotent stem cell-based platform to study SARS-CoV-2 tropism and model virus infection in human cells and organoids. Cell Stem Cell. 2020;27(1):125-136.e7. **PMCID: PMC7303620**

The article presents a platform of cell and organoid derivatives from human pluripotent stem cells (hPSCs) to study tissue tropism. The authors underline that these models are needed to understand how human cells respond to SARS-CoV-2 infection.

Yang N, Garcia A, Meyer C, Tuschl T, Merghoub T, Wolchok JD, Deng L. Heat-inactivated modified vaccinia virus Ankara boosts Th1 cellular and humoral immunity as a vaccine adjuvant. NPJ Vaccines. 2022;7:120. PMCID: PMC9580433

Results of a study to explore the potential of a virus as a cancer or SARS-CoV-2 vaccine adjuvant to create a stronger immune response in those being vaccinated.

Yeh R, Elsakka A, Wray R, Perez Johnston R, Gangai NC, Yarmohammadi H, Schoder H, Pandit-Taskar N. FDG PET/CT imaging features and clinical utility in COVID-19. Clinical Imaging. 2021;80:262-267. PMCID: PMC8349436

Researchers retrospectively read FDG PET/ CT scans from 31 patients and had a SARS- CoV-2 detection rate of 41.9%. Patients with FDG PET/CT-detectable infection were more likely to be symptomatic and hospitalized.

Yeoh CB, Seier KP, Francis J, Abramson DH, Tan KS, Tollinche LE. Perioperative corneal injury: An unseen casualty of COVID-19. JOJ Ophthalmology. 2022;9(2):555757. PMCID: PMC9455800

A retrospective cross-sectional observational study of all Reporting to Improve Safety and Quality (RISQ) corneal injury reports at Memorial Sloan Kettering Cancer Center between January 1, 2015 and April 30, 2021, with authors noting an increased incidence in perioperative corneal injuries during the COVID-19 pandemic.

Yerram P, Thackray J, Modelevsky
LR, Land JD, Reiss SN, Spatz KH, Levoir
AC, Pak TK, Dao PH, Buege MJ, DeRespiris
LM, Lau C, Orozco JS, Boparai M, Koranteng LA, Reichert KE, Yan SQ, Daukshus
NP, Mathew S, Buie LW, Tizon RF, Freeswick
S, Liu D, Harnicar S. Outpatient clinical
pharmacy practice in the face of COVID-19 at a cancer center in New York City. Journal of
Oncology Pharmacy Practice. 2021;27(2):389-394. PMCID: PMC7904665

MSK restructured its pharmacy services at the height of the pandemic in New York City, deploying six pharmacists to COVID-19 inpatient services for three months and using telemedicine technologies to allow those in outpatient settings to minimize on-site contact.

Yurdaisik I, Demiroz AS, Oz AB, Akker M, Agirman A, Aksoy SH, **Nurili F**. Postmortem biopsies of the lung, heart, liver, and spleen of COVID-

19 patients. Cureus. 2021;13(12):e20734. **PMCID: PMC8792123**

This study reports on postmortem biopsies aimed at evaluating histopathologic changes in major organs of deceased COVID-19 patients.

Zhang AW, Morjaria S, Kaltsas A, Hohl TM, Parameswaran R, Patel D, Zhou W, Predmore J, Perez-Johnston R, Jee J, Daniyan AF, Perales MA, Taur Y. The effect of neutropenia and filgrastim (G-CSF) on cancer patients with coronavirus disease 2019 (COVID-19) infection. Clinical Infectious Diseases. 2022;74(4):567-574. PMCID: PMC8406899

In this retrospective cohort study of 379 cancer patients infected with COVID-19, the authors study if the administration of filgrastim because of neutropenia impacted the severity of COVID-19.

Zhang Z, Ojutiku O, **Mango VL**. Breast cancer patients' response to COVID-19-related imaging and treatment delays: An online forum analysis. Journal of the American College of Radiology. 2021;18(1 Pt. A):71-74. **PMCID: PMC7476573**

This case study qualitatively analyzed all posts on the COVID-19 forum on breast-cancer.org to identify patient concerns in response to COVID-19.

Zhou G, Burnett GW, **Shah RS**, Lai CY, Katz D, Fried EA. Development of an easily reproducible cough simulator with droplets and aerosols for rapidly testing novel personal protective equipment. Simulation in Healthcare. 2022;17(5):336-342.

This technical report describes the creation of a cough and particle simulator to test personal protective equipment from droplets and aerosols.

Zimmerman MI, Porter JR, Ward MD, Singh S, Vithani N, Meller A, Mallimadugula UL, Kuhn CE, Borowsky JH, **Wiewiora RP**, Hurley MFD, Harbison AM, Fogarty CA, Coffland JE, Fadda E, Voelz VA, **Chodera JD**, Bowman GR. SARS-CoV-2 simulations go exascale to predict dramatic spike opening and cryptic pockets across the proteome. Nature Chemistry. 2021;13(7):651-659. **PMCID: PMC8249329**

This paper reports on the efforts of over a million citizen scientists that participated in the Folding@home initiative to learn more about the SARS-CoV-2 protein structures and their conformational changes. They developed a "... distributed computing project to create the first exascale computer and simulate O.1seconds of the viral proteome."

Zyskind I, Rosenberg AZ, Zimmerman J, Naiditch H, Glatt AE, Pinter A, Theel ES, Joyner MJ, Hill DA, Lieberman MR, Bigajer E, **Stok D**, Frank E, Silverberg JI. SARS-CoV-2 seroprevalence and symptom onset in culturally linked orthodox Jewish communities across multiple regions in the United States. JAMA Network Open. 2021;4(3):e212816. **PMCID**:

PMC7948060

This article describes how in culturally bound communities, outbreaks can occur outside of geographic areas, especially during holiday seasons. This study found an increase in outbreaks related to social events during Purim in Orthodox Jewish communities in five different states.

Afshar-Oromieh A, Prosch H, Schaefer-Prokop C, Bohn KP, Alberts I, Mingels C, Thurnher M, Cumming P, Shi K, Peters A, Geleff S, Lan X, Wang F, Huber A, Gräni C, Heverhagen JT, Rominger A, Fontanellaz M, **Schöder H**, Christe A, Mougiakakou S, Ebner L. A comprehensive review of imaging findings in COVID-19 - Status in early 2021. European Journal of Nuclear Medicine and Molecular Imaging. 2021;48(8):2500-2524. **PMCID:**

A review of the role of imaging technologies in detecting 19 pathologies related to COVID-19.

Akula SM, Abrams SL, Steelman LS, Candido S, Libra M, **Lerpiriyapong K**, Cocco L, Ramazzotti G, Ratti S, Follo MY, Martelli AM, Blalock WL, Piazzi M, Montalto G, Cervello M, Notarbartolo M, Basecke J, McCubrey JA. Cancer therapy and treatments during COVID-19 era. Advances in Biological Regulation. 2020;77:100739. **PMCID: PMC7319627**

This article provides a summary of the impact of COVID-19 on patients with different types of cancer and their treatments, as well as the potential repurposing of various drugs/agents to minimize or treat COVID-19 disease.

Aroniadis OC, DiMaio CJ, Dixon RE, Elmunzer BJ, Kolb JM, **Mendelsohn R**, Ordiah CO, Rockey DC, Singal AG, Spitzer RL, Tierney WM, Wani S, Yadav D, on behalf of the North American Alliance for the Study of Digestive Manifestations of Covid-19. Current knowledge and research priorities in the digestive manifestations of COVID-19. Clinical Gastroenterology and Hepatology. 2020;18(8):1682-1684. **PMCID: PMC7194582**

The authors review what is known about the gastrointestinal impact of COVID-19.

Atkins MB, Curiel-Lewandrowski C, Fisher DE, Swetter SM, Tsao H, Aguirre-Ghiso JA, Soengas MS, Weeraratna AT, Flaherty KT, Herlyn M, Sosman JA, Tawbi HA, Pavlick AC, Cassidy PB, Chandra S, **Chapman PB**, Daud A, Eroglu Z, Ferris LK, Fox BA, Gershenwald JE, Gibney GT, Grossman D, Hanks BA, Hanniford D, Hernando E, Jeter JM, Johnson DB, Khleif SN, Kirkwood JM, Leachman SA, Mays D, Nelson KC, Sondak VK, Sullivan RJ, Merlino G, on behalf of the Melanoma Research Foundation. The state of melanoma: Emergent challenges and opportunities. Clinical Cancer Research. 2021;27(10):2678-2697. **PMCID: PMC8127340**

This article is a Melanoma Research Foundation (MRF) report on the current progress and future directions for melanoma research, as well as prevention, diagnosis and management of melanoma.

Bachanova V, Bishop MR, **Dahi P**, Dholaria B, Grupp SA, Hayes-Lattin B, Janakiram M, Maziarz RT, McGuirk JP, Nastoupil LJ, Oluwole OO, **Perales MA**, Porter DL, Riedell PA, CAR T-cell Consortium. Chimeric antigen receptor T cell therapy during the COVID-19 pandemic. Biology of Blood and Marrow Transplantation. 2020;26(7):1239-1246. **PMCID: PMC7194685**

Chimeric antigen receptor (CAR) T-cell therapy is currently one of the most promising immune therapies for blood cancers. This article presents consensus recommendations from the CAR T-cell Consortium (a group formed by researchers from 8 U.S. academic

institutions), on multiple aspects of using this treatment at the time of the COVID-19 pandemic. The recommendations for institutions which treat patients with CAR T-cell therapy are formatted as questions and answers.

Badalov E, **Blackler L**, **Scharf AE**, **Matsoukas K**, **Chawla S**, **Voigt LP**, Kuflik A. COVID-19 double jeopardy: The overwhelming impact of the social determinants of health. International Journal for Equity in Health. 2022;21(1):76. **PMCID: PMC9129892**

The article focuses on the effects of socioeconomic disparities on COVID-19 pandemic outcomes among vulnerable populations.

Baldwin-Medsker A, Skwira-Brown A. The COVID-19 pandemic and transition to digital health in clinical oncology care. Clinical Journal of Oncology Nursing. 2022;26(4):374-382.

A review of how the COVID-19 pandemic changed clinical oncology practice and impacted digital health technologies in oncology care.

Bard JD, **Babady NE**. The successes and challenges of SARS-CoV-2 molecular testing in the United States. Clinics in Laboratory Medicine. 2022;42(2):147-160. **PMCID: PMC8901381**

This review paper describes the important role that molecular testing methods have played in the COVID-19 pandemic and discusses the challenges encountered and how these can be avoided in the future.

Becker AS, Perez-Johnston R, Chikarmane SA, Chen MM, El Homsi M, Feigin KN, Gallagher KM, Hanna EY, Hicks M, Ilica AT, Mayer EL, Shinagare AB, Yeh R, Mayerhoefer ME, Hricak H, Vargas HA. Multidisciplinary

recommendations regarding post-vaccine adenopathy and radiologic imaging: Radiology scientific expert panel. Radiology. 2021;300(2):E323-E327. **PMCID: PMC7909071**

People may experience swollen lymph nodes as a side effect of receiving a COVID vaccine. The authors recommend scheduling routine cancer imaging screenings either before vaccination or six weeks after. Patients should not delay getting either the vaccine or clinically urgent imaging.

Bottino F, Tagliente E, **Pasquini L**, Di Napoli A, Lucignani M, Figà-Talamanca L, Napolitano A. COVID mortality prediction with machine learning methods: A systematic review and critical appraisal. Journal of Personalized Medicine. 2021;11(9):893. **PMCID: PMC8467935**

This systematic review of the literature aims to describe the current machine learning techniques that are being used to predict mortality in COVID patients, summarizing the different models being used and the data and clinical features that they are considering making their prediction assessments.

Braunstein LZ, Gillespie EF, Hong L, Xu A, Bakhoum SF, Cuaron J, Mueller B, McCormick B, Cahlon O, Powell S, Khan AJ. Breast radiation therapy under COVID-19 pandemic resource constraints—Approaches to defer or shorten treatment from a comprehensive cancer center in the United States. Advances in Radiation Oncology. 2020;5(4):582-588. PMCID:

PMC7118660

The MSKCC Breast radiation department advises omitting radiation therapy in favorable subgroups of breast cancer patients and accel-

erating or abbreviating regimens for others. Hypofractionated approaches are shown to be safe and effective.

The Cancer Center Cessation Initiative Telehealth Working Group. Telehealth delivery of tobacco cessation treatment in cancer care: An ongoing innovation accelerated by the COVID-19 pandemic. Journal of the National Comprehensive Cancer Network. 2021;19(Suppl. 1):S21-S24. PMCID: PMC9040141

This article describes how the shift to virtual telehealth services prompted by the COVID-19 pandemic occurred in three health-care institutions: Memorial Sloan Kettering Cancer Center, MD Anderson Cancer Center and the University of Chicago, and explores future avenues of investigation to advance telehealth for tobacco cessation treatment in cancer care.

Cancio M, Ciccocioppo R, Rocco PRM, Levine BL, Bronte V, Bollard CM, Weiss D, Boelens JJ, Hanley PJ. Emerging trends in COVID-19 treatment: Learning from inflammatory conditions associated with cellular therapies. Cytotherapy. 2020;22(9):474-481. PMCID: PMC7252029

The article discusses the inflammatory conditions that arise both as a side effect of certain therapies used in oncology (such as cellular therapies and stem cell transplantation), and as a result of COVID-19 infection. The authors suggest that therapeutic approaches used in managing such complications may be applicable in management of COVID-19 patients.

Cazeau N, Palazzo M, Savani M, Shroff

RT. COVID-19 vaccines and immunosuppressed patients with cancer: Critical considerations. Clinical Journal of Oncology Nursing. 2022;26(4):367-373. **PMCID: PMC9713690**

A review of current knowledge via research studies that looked to the COVID-19 vaccine immune response of immunosuppressed patients with hematologic and solid tumor malignancies.

Chams N, Chams S, Badran R, Shams A, **Araji A**, Raad M, Mukhopadhyay S, Stroberg E, Duval EJ, Barton LM, Hajj Hussein I. COVID-19: A multidisciplinary review. Frontiers in Public Health. 2020;8:383. **PMCID: PMC7403483**

This is a comprehensive review of what we have learned about the novel coronavirus and the infection it causes (up to July 2020, the time of this article's publication). It covers the whole spectrum of COVID-19 including timeline, origins, how the virus is transmitted, epidemiology, clinical symptoms, disease course and complications, treatments that emerged, etc.

Chaudhuri D, Sasaki K, Karkar A, Sharif S, Lewis K, Mammen MJ, Alexander P, Ye Z, Lozano LEC, Munch MW, Perner A, Du B, Mbuagbaw L, Alhazzani W, **Pastores SM**, Marshall J, Lamontagne F, Annane D, Meduri GU, Rochwerg B. Corticosteroids in COVID-19 and non-COVID-19 ARDS: A systematic review and meta-analysis. Intensive Care Medicine. 2021;47(5):521-537. **PMCID:**

PMC8054852

This systematic review of randomized controlled clinical trials (RCTs) on the use of corticosteroid drugs in COVID-19 and non-COVID-19 related acute respiratory distress

syndrome (ARDS) found that the use of corticosteroids probably reduces mortality in patients with ARDS.

Cheung CK, Tucker-Seeley R, Davies S, **Gilman M**, Miller KA, Lopes G, Betz GD, Katerere-Virima T, Helbling LE, Thomas BN, Lewis MA. A call to action: Antiracist patient engagement in adolescent and young adult oncology research and advocacy. Future Oncology. 2021;17(28):3743-3756.

This review describes how the COVID-19 pandemic was a catalyst to expose the long-standing racial crises against Blacks and Asians, and how anti-Black and anti-Asian racism impacts healthcare. The authors describe how adolescent and young adult (AYA) oncology researchers must protect young BIPOC cancer patients' exploitation, and how to provide ethical and effective methods of patient engagement and research that is antiracist.

Daniels K, Conway A, **Gardner R**, Martinez L, Price KM, Schneider S, Sheridan R, Srivastava J, Thornton S. Remote training of SRL users and staff in a global pandemic. Cytometry Part A. 2021;99(1):42-50. **PMCID: PMC9208242**

This article describes challenges to personnel training experienced by Shared Resource Laboratories (SRLs), which are technologically advanced research laboratory facilities at academic and research institutions, during the COVID-19 epidemic, and provides an overview of remote training platforms used.

DeWolf S, Laracy JC, Perales MA, Kamboj M, van den Brink MRM, Vardhana S. SARS-CoV-2 in immunocompromised individuals.

Immunity. 2022;55(10):1779-1798. **PMCID: PMC9468314**

A review of SARS-CoV-2 immunologic vulnerability and how understanding the natural history of viral infections in these highrisk populations can improve prevention and treatment strategies.

Diaz-Salazar C, Sun JC. Natural killer cell responses to emerging viruses of zoonotic origin. Current Opinion in Virology. 2020;44:97-111. **PMCID: PMC7415341**

This article describes how natural killer (NK) cells play a critical role in the early anti-viral response of nearly all emerging viruses, including COVID-19.

Elsakka A, Yeh R, Das J. The clinical utility of molecular imaging in COVID-19: An update. Seminars in Nuclear Medicine. 2023;53(1): 98-106. **PMCID: PMC9492514**

A review of the role of molecular imaging techniques in evaluating thoracic and extra-thoracic manifestations of COVID-19 and assessing post-acute COVID-19 syndrome.

Gammon R, Katz LM, Strauss D, Rowe K, Menitove J, Benjamin RJ, Goel R, **Borge D**, Reichenberg S, Smith R. Beyond COVID-19 and lessons learned in the United States. Transfusion Medicine. 2023;33(1):6-15. **PMCID: PMC9539268**

This article describes challenges in blood donation and banking during the COVID-19 pandemic in the United States, the ways the blood community addressed those challenges, and lessons learned for the future.

Ganatra S, Dani SS, Shah S, Asnani A, Neilan

TG, Lenihan D, Ky B, Barac A, Hayek SS, Leja M, Herrmann J, Thavendiranathan P, Fradley M, Bang V, Shreyder K, Parikh R, Patel R, Singh A, Brar S, Guha A, **Gupta D**, Mascari P, Patten RD, Venesy DM, Nohria A, Resnic FS. Management of cardiovascular disease during coronavirus disease (COVID-19) pandemic. Trends in Cardiovascular Medicine. 2020;30(6):315-325. **PMCID: PMC7255720**

From a review of the published literature, the authors provide a list of recommendations for the management of patients with cardiovascular disease in the time of COVID-19.

García-Gutiérrez V, Breccia M, Jabbour E, **Mauro M**, Cortes JE. A clinician perspective on the treatment of chronic myeloid leukemia in the chronic phase. Journal of Hematology & Oncology. 2022;15:90. **PMCID: PMC9272596**

This review, written by international experts, uses clinically relevant case studies to discuss three major scenarios often seen in the treatment of chronic myeloid leukemia (CML) in the chronic phase, and also "...addresses global challenges commonly faced by hematologists treating patients with CML during the COVID-19 pandemic."

Gordon A, Rotemberg V, Love D, Kurtansky NR, Pagel D, Mones J. Use of asynchronous interprofessional e-Consults in cancer patients during the COVID-19 pandemic: Current and future role. Telemedicine and e-Health. 2023;29(2):304-309.

This article analyzed the use of asynchronous provider-to-provider communications at Memorial Sloan Kettering Cancer Center during the COVID-19 pandemic from January to December 2020. Asynchronous communi-

cations are conducted via portal messages or interprofessional e-consults.

Govindarajan R, Vu ATN, Salas RME, **Miller AM**, Sandness DJ, Said RR, Southerland AM, Fernandez A, Romano S, Sennott BJ, Patino-Murillas J, Soni M, on behalf of the AAN Undergraduate Education Subcommittee and Education Committee. Accelerated implementation of a virtual neurology clerkship amid a global crisis. Neurology. 2022;98(7):279-286.

The COVID-19 pandemic changed the ways medical schools offered clerkships, or clinical experience, to medical students as part of their curricula. This article discusses different methods of virtual instruction, hybrid models of clerkship training, and implementation challenges in Neurology clerkship settings.

Grever M, Andritsos L, Banerji V, Barrientos JC, Bhat S, Blachly JS, Call T, Cross M, Dearden C, Demeter J, Dietrich S, Falini B, Forconi F, Gladstone DE, Gozzetti A, Iyengar S, Johnston JB, Juliusson G, Kraut E, Kreitman RJ, Lauria F, Lozanski G, Parikh SA, **Park J**, Polliack A, Ravandi F, Robak T, Rogers KA, Saven A, Seymour JF, Tadmor T, **Tallman MS**, Tam CS, Tiacci E, Troussard X, Zent C, Zenz T, Zinzani PL, Wörmann B. Hairy cell leukemia and COVID-19 adaptation of treatment guidelines. Leukemia. 2021;35(7):1864-

1872. PMCID: PMC8093591

This paper reports on the recommendations for the diagnosis and management of classic hairy cell leukemia (cHCL) that were updated to meet the concerns of and offer preventative measures for the COVID-19 pandemic. Since these patients are generally treated with first-line therapies that puts them in a state of prolonged immunosuppression,

this increases their susceptibility to infections and the risk for a severe course of COVID-19.

Griffiths EA, Alwan LM, Bachiashvili K, Brown A, Cool R, Curtin P, **Geyer MB**, Gojo I, Kallam A, Kidwai WZ, Kloth DD, Kraut EH, Lyman GH, Mukherjee S, Perez LE, Rosovsky RP, Roy V, Rugo HS, Vasu S, Wadleigh M, Westervelt P, Becker PS. Considerations for use of hematopoietic growth factors in patients with cancer related to the COVID-19 pandemic. Journal of the National Comprehensive Cancer Network. 2021;19(13):18-21. **PMCID: PMC9730290**

Hematopoietic cell growth factors are agents known to support proliferation and differentiation of blood cells. They are used in cancer care in the treatment of chemotherapy-induced neutropenia, myelodysplastic syndromes, and bone marrow failure syndromes. As with other cancer-related therapeutics the use of these agents in the time of the COVID-19 pandemic needed adjustments. This article reports on the National Comprehensive Cancer Network (NCCN) recommendations for adjustments in the use of these agents in the time of the COVID-19 pandemic, to ensure optimal care in the face of multiple new factors the pandemic brought in.

Halpern NA, Tan KS, SCCM Ventilator Taskforce. U.S. ICU resource availability for COVID-19. SCCM. 2020.

This blog post describes the availability of critical care resources in the US in order to care for the surge in COVID-19 patients.

Harschnitz O, Studer L. Human stem cell models to study host–virus interactions in the central nervous system. Nature Reviews

Immunology. 2021;21(7):441-453. **PMCID: PMC9653304**

In this review, the authors describe how human pluripotent stem cell technology can help understand viral infections of the human central nervous system.

Hasan AN. Respiratory disease with SARS-COV2 infection. Image-Guided Management of COVID-19 Lung Disease.

This book chapter describes how COVID-19 can lead to severe respiratory disease, the clinical course of the disease, clinical symptoms and signs, clinical assessments, and therapies to treat respiratory disease from COVID-19 infection.

Jethava YS, Fonseca R, **Landgren O**. Management of multiple myeloma during COVID-19 pandemic. Leukemia Research Reports. 2020;14:100212. **PMCID: PMC7293439**

The authors recommend best practices for caring for multiple myeloma patients during the COVID pandemic.

Kim D, Hanna MG, Vanderbilt C, Sirintrapun SJ. Pathology informatics education during the COVID-19 pandemic at Memorial Sloan Kettering Cancer Center (MSKCC). Acta Medica Academica. 2021;50(1):136-142.

This review details the development and structure of the pathology informatics rotation during COVID-19.

Laracy JC, Kamboj M, Vardhana SA. Long and persistent COVID-19 in patients with hematologic malignancies: From bench to bedside. Current Opinion in Infectious

Diseases. 2022;35(4):271-279. **PMCID: PMC9922441**

The article describes the incidence, clinical characteristics, risk factors, and outcomes of persistent COVID-19 infection in patients with blood cancers.

Lee VHF, Adham M, Ben Kridis W, Bossi P, Chen MY, Chitapanarux I, Gregoire V, Hao SP, Ho C, Ho GP, Kannarunimit D, Kwong DLW, Lam KO, Lam WKJ, Le QT, Lee WM, **Lee NY**, Leung TW, Licitra L, Lim DWT. International recommendations for plasma Epstein-Barr virus DNA measurement in nasopharyngeal carcinoma in resource-constrained settings: Lessons from the COVID-19 pandemic. Lancet Oncology. 2022;23(12):e544-e551. **PMCID: PMC9704820**

Consensus recommendations from 33 international experts on nasopharyngeal carcinoma in the context of COVID-19 or similar future pandemics or settings.

Lenihan D, Carver J, Porter C, **Liu JE**, Dent S, Thavendiranathan P, Mitchell JD, Nohria A, Fradley MG, Pusic I, Stockerl-Goldstein K, Blaes A, Lyon AR, Ganatra S, López-Fernández T, O'Quinn R, Minotti G, Szmit S, Cardinale D, Alvarez-Cardona J, Curigliano G, Neilan TG, Herrmann J. Cardio-oncology care in the era of the coronavirus disease 2019 (COVID-19) pandemic: An International Cardio-Oncology Society (ICOS) statement. CA - A Cancer Journal for Clinicians. 2020;70(6):480-504. **PMCID: PMC7934086**

This review provides an overview of the implications of COVID-19 on cardio-oncology and outlines modifications such as a shift towards using cardiac biomarkers and focused

CV imaging to minimize risk of COVID-19 infection without impacting the care of CVD in patients being treated for cancer.

Levoy K, Foxwell A, **Rosa WE**. Palliative care delivery changes during COVID-19 and enduring implications in oncology nursing: A rapid review. Current Opinion in Supportive and Palliative Care. 2022;16(3):94-101. **PMCID: PMC9364779**

This review article synthesizes evidence from individual studies on changes to palliative care delivery during the COVID-19 pandemic, and the implications of these changes in Oncology Nursing practice going forward.

Matuschek C, Moll F, Fangerau H, Fischer JC, Zänker K, van Griensven M, Schneider M, Kindgen-Milles D, Knoefel WT, Lichtenberg A, Tamaskovics B, Djiepmo-Njanang FJ, Budach W, Corradini S, Häussinger D, Feldt T, Jensen B, Pelka R, Orth K, Peiper M, Grebe O, Maas K, Gerber PA, **Pedoto A**, Bölke E, Haussmann J. Face masks: Benefits and risks during the COVID-19 crisis. European Journal of Medical Research. 2020;25:32. **PMCID: PMC7422455**

This review of available literature found that wearing face masks that cover the nose and mouth are effective at interrupting airborne infections in the community. This review highlights the protectiveness of certain types of face masks in defined risk groups as well as their risks.

Moreira DC, Millen GC, **Sands S**, Kearns PR, Hawkins DS. The care of children with cancer during the COVID-19 pandemic. American Society of Clinical Oncology Educational Book. 2021;41:e305-e314.

The article is a review of the challenges and direct and collateral effects of the COVID-19 pandemic on the care of children with cancer. Reviewed are such aspects as the severity of COVID-19 in pediatric cancer patients, adaptation of health care delivery to the pandemic challenges, patient access to cancer diagnosis and care during the pandemic, impact on clinical trials in pediatric oncology, etc.

Motzer RJ, Jonasch EA, McGregor BA, Figlin RA. Changes, challenges and opportunities in cancer care during the COVID-19 era and beyond: Building on lessons learned from the pandemic. Kidney Cancer Journal. 2021;19(2):42-47.

In this roundtable discussion, leading cancer experts from across the United States share their views on current changes, challenges, and opportunities for delivering cancer care during the COVID-19 pandemic. (https://kidney-cancer-journal.com/KCJ19n2_r1.php)

Rosa WE, Dahlin C, Battista V, Finlayson CS, Wisniewski RE, Greer K, Ferrell BR. Primary palliative care clinical implications: Oncology nursing during the COVID-19 pandemic. Clinical Journal of Oncology Nursing. 2021;25(2):119-125. PMCID: PMC8219217

This article describes the need that emerged during the COVID-19 pandemic for oncology nurses to acquire palliative care skills to be better equipped for meeting the needs of patients with cancer. The article supports and advocates for incorporating primary palliative care education into the oncology nursing practice.

Rosa WE, Pandey S, Epstein AS, Connor SR, **Nelson JE**. The inaugural United States

World Hospice and Palliative Care Day Celebration: A virtual coming together. Palliative and Supportive Care. 2021;19(2):182-186. **PMCID: PMC8084983**

In this article, the authors report Memorial Sloan Kettering Cancer Center's experience on hosting the United States World Hospice and Palliative Care Day (WHPCD) Celebration. Two hundred seventy participants from at least 16 countries joined the virtual event on October 10, 2020.

Sethi A, Swaminath A, Latorre M, Behin DS, Jodorkovsky D, **Calo D**, Aroniadis O, Mone A, **Mendelsohn RB**, Sharaiha RZ, Gonda TA, Khanna LG, Bucobo JC, Nagula S, Ho S, Carr-Locke DL, Robbins DH, on behalf of New York Society for Gastrointestinal Endoscopy. Donning a new approach to the practice of gastroenterology: Perspectives from the COVID-19 pandemic epicenter. Clinical Gastroenterology and Hepatology. 2020;18(8):1673-1681. **PMCID: PMC7194523**

Gastroenterologists from New York Cityarea hospitals discuss how COVID-19 impacted their practice.

Shadman M, Liu C, Eakle K, Hiew HJ, Biondo JML, Ghia P, **Mato AR**. COVID-19 vaccination response and its practical application in patients with chronic lymphocytic leukemia. HemaSphere. 2023;7(1):e811. **PMCID: PMC9771252**

A prospective review of 27 studies of patients with chronic lymphocytic leukemia, with each study including serology results for 20 or more patients, to evaluate COVID-19 vaccination response in this population.

Shaha AR. Thyroid surgery during COVID-19 pandemic: Principles and philosophies. Head & Neck. 2020;42(6):1322-1324. **PMCID: PMC7267442**

A surgeon shares his clinical observations/ philosophy of managing patients with thyroid cancer during the COVID-19 pandemic and describes some issues to be considered in the decision-making process when determining if patients require thyroid surgery urgently or not.

Stopsack KH, Mucci LA, Antonarakis ES, Nelson PS, Kantoff PW. TMPRSS2 and COVID-19: Serendipity or opportunity for intervention? Cancer Discovery. 2020 Jun;10(6):779-782. PMCID: PMC7437472.

COVID-19 pandemic statistics have shown gender inequality in susceptibility to the coronavirus infection. It appears that men are more susceptible than women. This article discusses the role of a specific gene, involved both in viral infection and cancer processes, which could be a potential culprit in the increased male susceptibility to coronavirus and influenza infections and a potential target for treatments to fight this susceptibility.

Spinato G, Gaudioso P, Rizzo PB, Fabbris C, Menegaldo A, Mularoni F, **Singh B**, Maniaci A, Cocuzza S, Frezza D. Risk management during COVID-19: Safety procedures for otolaryngologists. Acta Biomedica. 2021;92(1):e2021105. **PMCID: PMC7975934**

This review presents ways for Otolaryngologists to decrease their risks when caring for COVID-19 patients, such as preventative measures and fewer invasive procedures.

van Nijnatten TJA, Jochelson MS, Lobbes

MB I. Axillary lymph node characteristics in breast cancer patients versus post-COVID-19 vaccination: Overview of current evidence per imaging modality. European Journal of Radiology. 2022;152:110334. **PMCID: PMC9055782**

Lymph node abnormalities resulting from COVID-19 vaccinations often have different characteristics from those caused by cancer. Still, any suspicious lymph nodes on the same side as breast cancer call for biopsy.

Yamada C, Hofmann JC, Witt V, **Gupta GK**, Winters JL, The ASFA COVID-19 Taskforce. The report from ASFA COVID-19 Taskforce: Considerations and prioritization on apheresis procedures during the SARS-CoV-2 coronavirus disease (COVID-19) pandemic. Journal of Clinical Apheresis. 2021;36(6):878-881. **PMCID: PMC8644674**

The American Society for Apheresis (ASFA) Task Force's report mapping out the issues and considerations that should be made when apheresis procedures are requested in the COVID-19 pandemic to ensure "...efficient and optimum use of apheresis resources."

Yeoh CB, Lee KJ, Rieth EF, Mapes R, Tchoudovskaia A V, Fischer GW, Tollinche LE. COVID-19 in the cancer patient. Anesthesia and Analgesia. 2020;131(1):16-23. PMCID: PMC7179051

This review article looks at how COVID-19 impacts cancer patients and how to proceed with cancer surgeries in light of these considerations.

Research Letters (17)

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Anabaraonye N, **Tsai CJ**, Saeed H, **Chino F**, Ekpo E, Ahuja S, Garcia O, Miller RC. Impact of the early COVID-19 pandemic on gender participation in academic publishing in radiation oncology. Advances in Radiation Oncology. 2022;7(2):100845. **PMCID: PMC8818914**

This letter compares gender and other data points for all articles published by the journal Advances in Radiation Oncology between its inception in December 2015 and the end of February 2020, and between March 1, 2020 and May 31, 2020 when the COVID-19 pandemic in North America began, with authors noting non-senior female researchers participated less in article publishing during the latter time period.

Anderson MR, **Bach PB**, Baldwin MR. Hospital length of stay for patients with severe COVID-19: Implications for remdesivir's value. PharmacoEconomics - Open. 2021;5(1):129-131. **PMCID: PMC7734451**

This study questions whether the 33% higher price of remdesivir charged to U.S. hospitals is justified. The price is based on the company's clinical trial finding that remdesivir reduces LOS by 4 days, however, in the cohort study reported in this research letter, "the median LOS was markedly shorter than the equivalent endpoint in the ACTT-1 trial (7 vs. 15 days)". This finding led the researchers to conclude that "36% could have their LOS potentially prolonged to complete therapy."

Aydillo T, Gonzalez-Reiche AS, Aslam S, van de Guchte A, Khan Z, Obla A, Dutta J, van Bakel H, Aberg J, García-Sastre A, **Shah G**, **Hohl T, Papanicolaou G, Perales MA, Sepkowitz K, Babady NE, Kamboj M**. Shedding of viable SARS-COV-2 after immunosuppressive therapy for cancer. New England Journal of Medicine. 2020;383(26):2586-2588. **PMCID: PMC7722690**

Cell cultures from 20 immunocompromised patients with COVID-19 found that stem cell transplant or CAR-T cell therapy recipients can shed SARS-CoV-2 virus for at least two months.

Boulad F, Kamboj M, Bouvier N, Mauguen A, Kung AL. COVID-19 in children with cancer in New York City. JAMA Oncology. 2020;6(9):1459-1460. **PMCID: PMC7221844**

In this study, 178 children with cancer showed similar rates of COVID-19 infection and mortality as children in the general population.

Fenelus M, Graham T, Golden R, Bautista JL, So RJ, Plante N, Peerschke EIB. Choosing wisely during the COVID-19 pandemic: Optimizing outpatient cancer care while conserving resources with a new algorithm to report automated ANC results. Journal of Clinical Pathology. 2021;74(3):202-204. PMCID: PMC8300857

This study determined if and how a streamlined system of only testing absolute neutrophil counts (ANC), instead of full blood counts, helped to decrease patient wait times, staffing, and resources in patients undergoing chemotherapy.

Fernandes DA, **Araújo Filho JDAB**, de Jesus AR. SARS-CoV-2 and splenic infarction: A rarely described thromboembolic presentation. Revista Espanola de Enfermedades Digestivas - The Spanish Journal of Gastroenterology. 2022;114(1):52-53.

With this case report, the authors would like to make health care workers aware of rare

thromboembolic events as another possible complication of COVID-19.

Frigault MJ, Nikiforow S, Mansour MK, Hu ZH, Horowitz MM, Riches ML, Hematti P, Turtle CJ, Zhang MJ, **Perales MA**, Pasquini MC. Tocilizumab not associated with increased infection risk after CAR T-cell therapy: Implications for COVID-19? Blood. 2020;136(1):137-139. **PMCID: PMC7332891**

In this letter, the authors report their findings on the risk of infections following tocilizumab use for chimeric antigen receptor T-cell (CAR-T)-mediated cytokine release syndrome (CRS).

Fu W, Chen Y, Wang K, Hettinghouse A, **Hu** W, Wang JQ, Lei ZN, Chen ZS, Stapleford KA, Liu CJ. Repurposing FDA-approved drugs for SARS-CoV-2 through an ELISA-based screening for the inhibition of RBD/ACE2 interaction. Protein & Cell. 2021;12(7):586-591. **PMCID: PMC7673315**

In this letter to the editor, the authors present how they developed an ELISA assay and identified from the assay three FDA-approved drugs that may help with treating COVID-19.

Kozak KE, Ouyang L, Derkach A, Sherman A, McCall SJ, Famulare C, Chervin J, Daley RJ, Morjaria S, Mauro MJ, Rampal RK.

Serum antibody response in patients with Philadelphia-chromosome positive or negative myeloproliferative neoplasms following vaccination with SARS-CoV-2 spike protein messenger RNA (mRNA) vaccines. Leukemia. 2021;35(12):3578-3580. PMCID: PMC8569492

This letter to the editor describes the study on the SARS-CoV-2 mRNA vaccines antibody

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response in patients with certain hematologic malignancies, specifically in patients with Philadelphia-chromosome positive and negative Myeloproliferative Neoplasms (MPNs).

Manci R, Nazir ZH, Mehta P, Kurtansky NR, Krug E, Marghoob AA, Cordova

M. Reflectance confocal microscopy examinations of COVID-19 vaccination sites: A prospective observational study. JAAD International. 2022;8:160-162. **PMCID: PMC9108099**

In this study, an imaging optical technique called Reflectance Confocal Microscopy (RCM) was used to track skin changes following COVID-19 vaccination with mRNA vaccines (Pfizer and Moderna). The study was conducted in a small sample of subjects and the findings should be viewed as secondary to local immune response to the vaccine. The methodology used may pave a way to identify potential vaccine non-responders.

Min J, Simmons W, Banerjee S, Wang F, Williams N, Zhang Y, Reese AB, Mushlin AI, Flory JH. Association between antidiabetic drug use and the risk of COVID-19 hospitalization in the INSIGHT Clinical Research Network in New York City. Diabetes, Obesity and Metabolism. 2022;24(7):1402-1405. PMCID:

PMC9111856

In the retrospective study, the authors examined antidiabetic drugs' effect on COVID-19 infections and adverse outcomes. 30,747 patients were included in the study.

Roeker LE, Eyre TA, **Thompson MC**, Lamanna N, Coltoff A, Davids MS, Baker P, Leslie LA, Rogers KA, Allan JN, Cordoba R, Lopez-Garcia A, Antic D, Pagel JM, Martinez-Calle N, Gar-

cia-Marco JA, Hernández-Rivas JÁ, Miras F, Coombs CC, Österborg A, Seddon AN, López-Jiménez J, Wilson MR, El-Sharkawi D, Wojenski D, Ma S, Munir T, Valenciano S, Seymour E, Barr PM, Pu JJ, Patten PE, Perini GF, Huntington SF, Parry H, Sundaram S, Skarbnik AP, Kamdar M, Jacobs RW, Walter HS, Walewska R, Broom A, **Lebowitz S**, Isaac K, Portell CA, Ahn IE, Ujjani C, Shadman M, Skånland SS, Chong EA, **Mato AR**. COVID-19 in patients with CLL: Improved survival outcomes and update on management strategies. Blood. 2021;138(18):1768-1773.

PMCID: PMC8313815

In this retrospective study, investigators from 45 centers studied the case fatality rate in patients with chronic lymphocytic leukemia (CLL) diagnosed with COVID-19. The study found that the overall trend in case fatality rate for CLL patients is similar to the improved overall survival observed for patients with COVID-19 in the general population.

Robilotti EV, Babady NE, Mead PA, Rolling T, Perez-Johnston R, Bernardes M, Bogler Y, Caldararo M, Figueroa CJ, Glickman MS, Joanow A, Kaltsas A, Lee YJ, Lucca A, Mariano A, Morjaria S, Nawar T, Papanicolaou GA, Predmore J, Redelman-Sidi G, Schmidt E, Seo SK, Sepkowitz K, Shah MK, Wolchok JD, Hohl TM, Taur Y, Kamboj M. Determinants of COVID-19 disease severity in patients with cancer. Nature Medicine. 2020;26(8):1218-1223. PMCID: PMC7785283

This article adds to the characterization of COVID-19 in patients with cancer as it reports the most extensive single-institution experience in patients with cancer from the epicenter of the US outbreak, describing outcomes on COVID-19-associated respiratory compromise

and including a full 30-day follow-up for reporting primary study outcomes and death rates.

Roeker LE, Knorr DA, Thompson MC, Nivar M, Lebowitz S, Peters N, Deonarine I Jr, Momotaj S, Sharan S, Chanlatte V, Hampton B, Butala L, Amato L, Richford A, Lunkenheimer J, Battiato K, Laudati C, Mato AR. COVID-19 vaccine efficacy in patients with chronic lymphocytic leukemia. Leukemia. 2021;35(9):2703-2705. PMCID: PMC8118367

The study reported in this letter to the editor demonstrated the diminished immune response to SARS-CoV-2 mRNA vaccines in patients with chronic lymphocytic leukemia (CLL). Vaccination in patients with CLL may not have the same efficacy as in the general population, especially in patients receiving CLL-directed therapy.

Ruiz ES, **Veldhuizen IJ**, Abdullah A, **Rossi A**, **Nehal KS**, Schmults C, Waldman A, **Lee EH**. Impact of COVID-19 delays on skin cancer worry and Mohs micrographic surgery for keratinocytic carcinoma. Journal of the American Academy of Dermatology. 2022;87(4):878-880. **PMCID: PMC8642832**

In this letter to the editor, the authors report the results of their study on cancer patients worrying about their skin cancer versus worrying about surgery delays caused by COVID-19.

Shaverdian N, Shepherd AF, Rimner A, Wu AJ, Simone CB 2nd, Gelblum DY, Gomez DR. Need for caution in the diagnosis of radiation pneumonitis during the COVID-19

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pandemic. Advances in Radiation Oncology. 2020;5(4):617-620. **PMCID: PMC7199721**

This research letter reports on four patients presenting radiation pneumonitis symptoms during the time of COVID-19. The authors recommend COVID-19 testing before starting high-dose corticosteroids.

Tee MW, Stewart C, **Aliessa S**, Polansky M, Shah K, Petukhova T, **Rossi A**, Lipner SR, Minkis K. Dermatologic surgery during the COVID-19 pandemic: Experience of a large academic center. Journal of the American Academy of Dermatology. 2021;84(4):1094-1096. **PMCID: PMC7831540**

A letter to the editor presenting COVID-19 safety measures taken during surgery at Weill Cornell Dermatology.

Auger J, Fletcher L, Frankowiak S, Grills G, Lemas M V, Mische S, Monteiro M, Peláez F, **Tabarini D**, Vinard A, White AN. SRLs in a global pandemic: An administrative perspective. Cytometry Part A. 2021;99(1):19-21. **PMCID: PMC7753372**

This paper provides the perspectives and lessons learned of administrators of biomedical shared resource laboratories/research core facilities on a range of issues that have affected their facilities and operations during the COVID-19 pandemic. They provide guidance on business continuity planning and explain the importance of strong core contingency plans.

Avasthi P, **Neill US**, Pollack Porter KM, Weeraratna AT. Preserve junior faculty in biomedical sciences during and after the pandemic. Nature Medicine. 2020;26(7):1003-1004.

Challenges to research scientists are great during the pandemic, and even greater for those trying to get their foot in the door as junior researchers. This commentary urges funders to extend grant times and institutions to accommodate and evaluate researchers with pandemic-related challenges at the forefront of the review.

Babady NE, Burckhardt RM, Krammer F, Moore PL, Enquist LW. Building a resilient scientific network for COVID-19 and beyond. mBio. 2022;13(5):e0222322. **PMCID: PMC9600431**

An opinion piece on COVID-19 that looks at designing networks to systematically assess variants, connecting laboratory and clinical data, global data sharing, and becoming more proactive in responding to pathogens.

Banerjee SC, Staley JM, Howell F, Malling C, Moreno A, Kotsen C, Parikh D, Parker PA.

Communicating effectively via tele-oncology (Comskil TeleOnc): A guide for best practices for communication skills in virtual cancer care. Journal of Cancer Education. 2022;37(5):1343-1348. **PMCID: PMC7862043**

With this guide (Comskil TeleOnc), the authors offer strategies to provide the best cancer patient care possible during tele-oncology visits.

Bartlett DL, Howe JR, Chang G, **Crago A**, Hogg M, Karakousis G, Levine E, Maker A, Mamounas E, McGuire K, Merchant N, Shibata D, Sohn V, Solorzano C, Turaga K, White R, Yang A, **Yoon S**, for the Society of Surgical Oncology. Management of cancer surgery cases during the COVID-19 pandemic: Considerations. Annals of Surgical Oncology. 2020;27(6):1717-1720. **PMCID: PMC7141488**

This editorial article presents the Society of Surgical Oncology's cumulation of expert recommendations on the optimal surgical practice changes in the time of the COVID-19 pandemic. The recommendations are given for surgical management of different types of cancer.

Baumann BC, MacArthur KM, Brewer JD, Mendenhall WM, **Barker CA**, Etzkorn JR, Jellinek NJ, Scott JF, Gay HA, Baumann JC, Manian FA, Devlin PM, Michalski JM, **Lee NY**, Thorstad WL, Wilson LD, Perez CA, Miller CJ. Management of primary skin cancer during a pandemic: Multidisciplinary recommendations. Cancer. 2020;126(17):3900-3906. **PMCID: PMC7301000**

This commentary describes recommendations for weighing pros and cons of early or delayed interventions for localized skin

cancers. For most patients at higher risk of serious COVID-related illness or death, the risk of COVID generally outweighs the benefits of early skin cancer treatment.

Begg CB, **Gonen M**, Heitjan DF. Editorial: Clinical trial design in the era of COVID-19. Clinical Trials. 2020;17(5):465-466.

This editorial highlights three articles published in volume 17, issue 5, of the journal "Clinical Trials," dedicated to the important aspects of experimental research in a pandemic such as COVID-19. The articles highlighted by the editors provide an overview of the health care response to the COVID-19 pandemic in a historical perspective, discuss what COVID-19 clinical trials should focus on, and discuss the suitability of traditional clinical research design during special situations such as the COVID-19 pandemic.

Bergsland EK, Halperin DM, Dillon JS, Dasari NA, Kunz PL, Soares HP, Pryma D, **Bodei**L, Hope T, Soulen MC, Mailman J, Howe JR. North American Neuroendocrine Tumor Society guide for neuroendocrine tumor patient health care providers during COVID-19. Pancreas. 2020;49(6):723-728. **PMCID:**PMC7253037

This editorial article presents suggestions from the North American Neuroendocrine Tumor Society (NANETS) on adjustments to the care of patients with neuroendocrine cancers in the time of the COVID-19 pandemic aimed at decreasing risk of infection transmission to patients and health care professionals.

Betts BC, **Young JW**. Less can be more when targeting interleukin-6-mediated cytokine

release syndrome in coronavirus disease 2019. Critical Care Explorations. 2020;2(6):e0138.

PMCID: PMC7314334

This commentary details evidence that selecting targeted II-6 blockades are more effective than broad nonselective blockades at combating cytokine release syndrome. Cytokine release syndrome is a major trigger of COVID-19 mortality.

Breitbart W. A COVID-19 obituary. Palliative and Supportive Care. 2021;19(1):1-2. **PMCID:** PMC8042640

This editorial by William Breitbart reflects on the power of reading obituaries and thus touching the life stories of those for whom the obituaries were written. He highlights the story behind one of the COVID-19 era obituaries, that of a Holocaust survivor whose childhood was marred by the tragedy of the genocide of Jews during the Second World War.

Breitbart W. Life and death in the age of COVID-19. Palliative and Supportive Care. 2020;18(3):252-253. PMCID: PMC7384300

In this editorial, Dr. William Breitbart, Chair of the Department of Psychiatry and Behavioral Sciences at MSKCC, reflects on life and death in this unprecedented time of COVID-19.

Breitbart W. Love in the age of COVID-19. Palliative and Supportive Care. 2020;18(5):511-512. **PMCID: PMC7750880**

In this editorial, the author reflects on what we can learn from death during the COVID-19 pandemic, hoping that it taught us that "passing love along is what we were born to do."

Breitbart W. Trust in the age of COVID-19. Palliative and Supportive Care. 2020; 18(6):634-635. **PMCID: PMC7869752**

In this letter, the author shares his opinion on trust in the time of the COVID-19 pandemic. He states how crucial it is for the healthcare workforce to "recognize that trust needs to be restored."

Brissot E, Labopin M, Baron F, Bazarbachi A, Bug G, Ciceri F, Esteve J, Giebel S, Gilleece MH, Gorin NC, Lanza F, Peric Z, Ruggeri A, Sanz J, Savani BN, Schmid C, Shouval R, Spyridonidis A, Versluis J, Nagler A, Mohty M. Management of patients with acute leukemia during the COVID-19 outbreak: Practical guidelines from the acute leukemia working party of the European Society for Blood and Marrow Transplantation. Bone Marrow Transplantation. 2021;56(3):532-

535. PMCID: PMC7289070

These working group guidelines recommend in-hospital practices to reduce COVID-19 infection among patients with leukemia, along with best practices for screening, treatment, and clinical trial participation.

Calvillo-Argüelles O, Abdel-Qadir H, Ky B, Liu JE, Lopez-Mattei JC, Amir E, Thavendiranathan P. Modified routine cardiac imaging surveillance of adult cancer patients and survivors during the COVID-19 pandemic. JACC: CardioOncology. 2020;2(2):345-349. PMCID: PMC7162635

Guidance on when to provide cardiac surveillance imaging to cancer patients and cancer survivors taking anthracyclines and trastuzumab.

Chablani S V, Sabra MM. Thyroid cancer and telemedicine during the COVID-19 pandemic. Journal of the Endocrine Society. 2021; 5(6):bvab059. PMCID: PMC8083547

A survey of nine MSK endocrinologists and endocrine surgeons shows that while physicians were overall satisfied with providing care via telemedicine, work can be done to improve technical, communication, and insurance barriers.

Chen LL. Standardized adult-gerontology acute care nurse practitioner point-of-care ultrasound training: A new perspective in the age of a pandemic. Journal of the American Association of Nurse Practitioners. 2020;32(6):416-418.

This perspective article describes training on point-of-care ultrasounds, as they provide a key role in managing critically ill patients in isolation due to Covid-19.

Chen YL, Hsu FM, Tsai CJ, Cheng JCH. Efforts to reduce the impact of coronavirus disease 2019 outbreak on radiation oncology in Taiwan. Advances in Radiation Oncology. 2020; 5(4):534-537. **PMCID: PMC7195280**

This opinion piece details the steps that Taiwan has taken to provide uninterrupted radiation oncology services throughout the COVID-19 pandemic.

Chong EA, **Roeker LE**, Shadman M, Davids MS, Schuster SJ, Mato AR. BTK inhibitors in cancer patients with COVID-19: "The winner will be the one who controls that chaos" (Napoleon Bonaparte). Clinical Cancer Research. 2020;26(14):3514-3516. PMCID:

PMC7367762

The authors discuss the benefits and risks of continuing to treat with BTK inhibitors

patients with chronic lymphocytic leukemia (CLL) and B-cell lymphomas who get infected with COVID-19. The pros and cons of BTKi discontinuation for patients are considered.

Choudhury N, Shoushtari A. Training oncologists in the time of COVID-19. The Oncologist. 2020;25(7):546-547. **PMCID: PMC7300728**

This commentary emphasizes the importance of prioritizing the training of the next generation of oncologists even during the COVID-19 pandemic.

Cleary S, **D'Angelica M**, Demartines N, Doyle MB, Kent T, Pawlik TM. AHPBA Webinar about Covid-19: Lessons learned responding to a pandemic. HPB. 2020;22(8):1135-1138. **PMCID: PMC7237940**

This commentary provides a summary of an international webinar help by the leadership of the Americas Hepato-Pancreato-Biliary Association (AHPBA) on lessons learned during the COVID-19 pandemic. A link to the full webinar is available in the commentary.

Croll TI, Diederichs K, Fischer F, Fyfe CD, Gao Y, Horrell S, Joseph AP, Kandler L, Kippes O, Kirsten F, Mu ller K, Nolte K, **Payne AM**, Reeves M, Richardson JS, Santoni G, Sta b S, Tronrud DE, von Soosten LC, Williams CJ, Thorn A. Making the invisible enemy visible. Nature Structural and Molecular Biology. 2021;28(5):404-408. **PMCID**:

PMC8340564

This article reports on the ongoing efforts of structural biology scientists in improving and deepening accumulated knowledge about the structures of SARS-CoV-2 proteins.

Czernin J, Fanti S, Meyer PT, Allen-Auerbach M, Hacker M, Sathekge M, Hicks R, Scott AM, Hatazawa J, Yun M, **Scho der H**, Bartenstein P, Herrmann K. Nuclear medicine operations in the times of COVID-19: Strategies, precautions, and experiences. Journal of Nuclear Medicine. 2020;61(5):626-629.

In this editorial, 11 teams from hospitals in Europe, Australia, Africa, and the United States share their experience as well as their strategies to contain the coronavirus from spreading.

De Luca A, Frusone F, Buzzacchino F, Amabile MI, Taffurelli M, Del Mastro L, Rutgers EJT, **Sacchini V**, Caruso F, Minelli M, Fortunato L. First Surgical National Consensus Conference of the Italian Breast Surgeons Association (ANISC) on breast cancer management in neoadjuvant setting: Results and summary. European Journal of Surgical Oncology. 2021;47(8):1913-1919

This paper reports on a consensus conference on neoadjuvant chemotherapy in breast cancer management which was held online due to the COVID-19 pandemic.

Desai A, Gainor JF, Hegde A, **Schram AM**, Curigliano G, Pal S, Liu SV, Halmos B, Groisberg R, Grande E, Dragovich T, Matrana M, Agarwal N, Chawla S, Kato S, Morgan G, Kasi PM, Solomon B, Loong HH, Park H, Choueiri TK, Subbiah IM, Pemmaraju N, Subbiah V, Covid, COVID19 and Cancer Clinical Trials Working Group. COVID-19 vaccine guidance for patients with cancer participating in oncology clinical trials. Nature Reviews Clinical Oncology. 2021;18(5):313-

319. PMCID: PMC7957448

With this paper, the authors seek to give guidance on COVID-19 vaccination for patients enrolled or about to get enrolled in

oncologic clinical trials. They conclude that COVID-19 vaccination should be standard of care for those patients with some rare exceptions where it would appear not to serve the patient's best interest.

Diamond LC, Jacobs EA, Karliner L. Providing equitable care to patients with limited dominant language proficiency amid the COVID-19 pandemic. Patient Education and Counseling. 2020;103(8):1451-1452. **PMCID: PMC7304953**

This editorial highlights the health care disparities experienced disproportionately by populations who are limited English proficient (LEP), exacerbated during the COVID-19 pandemic. It outlines steps for more clear communication that can be taken to provide equitable care to LEP populations and help contain the spread of COVID-19.

Dunbar S, **Babady E**, Das S, Moore C. Editorial: Impact of COVID-19 on the clinical microbiology laboratory: Preparing for the next pandemic. Frontiers in Cellular and Infection Microbiology. 2022;12:1031436. **PMCID:**

An editorial of the experiences of various diagnostic laboratories and manufacturers during the COVID-19 pandemic.

Esfahani SA, **Lee A**, Hu JY, Kelly M, Magudia K, Everett C, Szabunio M, Ackerman S, Spalluto LB. Challenges faced by women in radiology during the pandemic - A summary of the AAWR Women's Caucus at the ACR 2020 annual meeting. Clinical Imaging. 2020;68:291-294.

PMCID: PMC7453221

PMC9531327

Details the challenges of women in

radiology due to the COVID-19 pandemic and subsequent changes to work/life needs.

Feinberg J, Sonoda Y. The doctor will Face-Time you now: Commentary on telehealth in cancer care. The Oncologist. 2022;27(6):428-429. **PMCID: PMC9177097**

This is a commentary on telehealth specific to the oncologic field. It discusses its impact on patient outcomes, quality of patient care, cost, access, and future role.

Feldman S, Liu J, Steingart R, Gupta D. Cardio-oncology training in the COVID-19 era. Current Treatment Options in Oncology. 2021;22(7):58. PMCID: PMC8182729

This article describes how COVID-19 impacted training for cardio-oncology and how programs and trainees can adapt to the challenges.

Freitas Chaves AL, Farreira Castro A, Nader Marta G, Castro Junior G, Ferris RL, Giglio RE, Golusinski W, Gorphe P, Hosal S, Leemans CR, Magné N, Mehanna H, Mesía R, Netto E, Psyrri A, Sacco AG, **Shah J**, Simon C, Vermorken JB, Kowalski LP. Emergency changes in international guidelines on treatment for head and neck cancer patients during the COVID-19 pandemic. Oral Oncology. 2020;107:104734. **PMCID: PMC7180373**

General guidelines/recommendations meant to assist multidisciplinary teams around the world make diagnosis and treatment decisions for HNSCC patients, while they take into consideration the constraints and epidemiological characteristics of their local situation.

Ganesh K, Patel J, Orlova VV, Gifford C, Elias S, Vaughan A. Introductions to the community:

Early-career researchers in the time of COVID-19. Cell Stem Cell. 2021;28(1):17-19.

Six early-career researchers share how their experience of the COVID-19 pandemic has impacted their lab work and research.

Gebert RR, Behrens MR, Loschiavo

MJ. Behind the scenes: Moral distress among psychosocial oncology clinical research staff during the COVID-19 pandemic. Palliative and Supportive Care. 2022;20(6):777-778.

An editorial that describes the moral distress and challenges faced by psychosocial oncology clinical research staff within the COVID-19 pandemic.

Ghebrehiwet B, **Peerschke EI**. Complement and coagulation: Key triggers of COVID-19-induced multiorgan pathology. Journal of Clinical Investigation. 2020;130(11):5674-5676. **PMCID: PMC7598033**

A commentary on an article identifying factors behind a circulatory immune process that can be brought on by COVID-19.

Goffredo P, Sun MY, Jensen CC, Trudel JL, Madoff RD, Lowry AC, Gaertner WB. Factors associated with colon and rectal surgery fellowship program ranking before and after the COVID-19 pandemic. Diseases of the Colon and Rectum. 2021;64(10):1163-1166. **PMCID: PMC8432288**

Researchers found that virtual interviews and visits slightly changed the importance of several factors for colon and rectal surgery (CRS) fellowship applicants. Compared to those with in-person meetings, those with the virtual process were less swayed by location and more concerned with a fellowship site's

online presence and post-fellowship careers of alumni.

Goldstein DA, Ratain MJ, **Saltz LB**. Weight-based dosing of pembrolizumab every 6 weeks in the time of COVID-19. JAMA Oncology. 2020;6(11):1694-1695.

In this viewpoint, the authors present a solution to adjust pembrolizumab dosing regimen to decrease patients' financial burden. This new dosage would also reduce their risk of exposure to COVID-19.

Greene L, Uwishema O, Nicholas A, Kapoor A, Berjaoui C, Adamolekun E, Khoury C, Mohammed FEA, Onyeaka H. Crimean-Congo haemorrhagic fever during the COVID-19 pandemic in Africa: Efforts, recommendations and challenges at hand. African Journal of Emergency Medicine. 2022;12(2):117-120. **PMCID: PMC8858690**

This commentary describes how one of the effects of the COVID-19 pandemic has been the reallocation of attention and resources from other diseases and outbreaks that are often significantly more fatal, such as the Crimean-Congo fever outbreak in Africa.

Guterman EL, **Braunstein LZ**. Preprints during the COVID-19 pandemic: Public health emergencies and medical literature. Journal of Hospital Medicine. 2020;15(10):634-636. **PMCID: PMC7531942**

This perspective piece details the advantages and disadvantages of preprints in the context of the speed of COVID-19 literature being produced and provides recommendations for improving the preprint server system.

Harrington CA, Molena D. Commentary: Cancer cannot wait – Esophagectomy during the COVID-19 pandemic. Seminars in Thoracic and Cardiovascular Surgery. 2022;34(3):1083. PMCID: PMC8276558

In this commentary, the authors report that cancer surgery for esophageal cancer, esophagectomy, should not be postponed during a pandemic.

Harvey RD, **Begue A**, Raine C, Yabroff R. Positive practice changes after the COVID-19 pandemic: From the advanced practice provider perspective. Journal of the Advanced Practitioner in Oncology. 2022 Apr;13(3):198-201. **PMCID: PMC9126341**

Journal of the Advanced Practitioner in Oncology Live Virtual 2021 panelists' perspectives of the COVID-19 pandemic and how to respond to future crises that may impact cancer patients and practices.

Hlubocky FJ, Symington BE, **McFarland DC**, Gallagher CM, Dragnev KH, Burke JM, Lee RT, El-Jawahri A, Popp B, Rosenberg AR, Thompson MA, Dizon DS, Srivastava P, Patel MI, Kamal AH, Daugherty CK, Back AL, Dokucu ME, Shanafelt TD. Impact of the COVID-19 pandemic on oncologist burnout, emotional well-being, and moral distress: Considerations for the cancer organization's response for readiness, mitigation, and resilience. JCO Oncology Practice. 2021;17(7):365-374.

In this editorial, the authors describe how COVID-19 has impacted oncologists and offer recommendations to prevent or reduce the associated burdens.

Hossain S, Pastores SM. Bursting at the seams: Barotrauma in coronavirus disease 2019 acute respiratory distress syndrome patients. Critical Care Medicine. 2022;50(3):531-534. **PMCID: PMC8855769**

This editorial discusses a recent systematic review of COVID-19 patients with acute respiratory distress syndrome (ARDS) and how COVID-19 ARDS differs from classical ARDS. The review discussed in this editorial found that barotrauma, or the development of pneumothorax or pneumomediastinum, was a defining feature of COVID-19 ARDS. The authors of this editorial raise the question of whether barotrauma is unique to COVID-19 ARDS, or simply a marker for severe disease.

Hussain K, **Marghoob AA**, Patel NP. Dermoscopy in the COVID-19 era: Magnifying the gap for clinicians. Dermatology Practical & Conceptual. 2021;11(2):e2021069. **PMCID: PMC7943207**

This article describes the evolution of teledermoscopy and how clinicians need to use the technique to its full potential to provide both static and dynamic clues.

Kaltenboeck A, Rajkumar SV. The case for masks: Health care workers can benefit too. Mayo Clinic Proceedings. 2020;95(6):1132-1134. **PMCID: PMC7167549**

The authors recommend that everyone who works at or enters a healthcare organization wear a mask, regardless of patient contact.

Kamboj M. Blunted humoral response after mRNA vaccine in patients with haematological malignancies. Lancet Haematology. 2021 Aug;8(8):e540-e542. **PMCID: PMC8253544**

This comment discusses the article "Immunogenicity of the BNT162b2 COVID-19 mRNA vaccine and early clinical outcomes in patients with haematological malignancies in Lithuania: A national prospective cohort study," where the authors study the response to COVID-19 mRNA vaccines for patients with haematological malignancies.

Kamran SC, **Yerramilli D**, Vapiwala N. No talent left behind: A silver lining for diversity in radiation oncology in the post—coronavirus disease 2019 (COVID-19) era. International Journal of Radiation Oncology, Biology, Physics. 2020;108(2):472-474. **PMCID: PMC7462790**

This opinion piece discusses diversity in the context of how the COVID-19 pandemic may shape how and who enters into radiation oncology residency in the coming years.

Kang JJ, Wong RJ, Sherman EJ, Rybkin A, McBride SM, Riaz N, Tsai CJ, Yu Y, Chen L, Zakeri K, Gelblum DY, Gillespie EF, Cohen MA, Cracchiolo JR, Ganly I, Patel S, Singh B, Boyle JO, Roman BR, Morris LG, Shaha AR, Dunn LA, Ho AL, Fetten JV, Shah JP, Pfister DG, Lee NY. The 3 Bs of cancer care amid the COVID-19 pandemic crisis: "Be safe, be smart, be kind" - A multidisciplinary approach increasing the use of radiation and embracing telemedicine for head and neck cancer. Cancer. 2020;126(18):4092-4104. PMCID:

PMC7361524

MSK's treatment for head and neck cancer during the COVID pandemic followed the best available evidence while expanding telemedicine utilization.

Khawaja F, Chemaly RF, Dadwal S, Pergam S, Wingard J, Auletta J, El Boghdadly Z, Abidi M, Waghmare A, Shahid Z, Pabinger-Fasching I, Michaels L, Hill J, **Hohl T, Kamboj M, Papanicolaou G**, Boeckh M. ASH-ASTCT COVID-19 vaccination for HCT and CAR-T cell recipients: Frequently asked questions. American Society for Transplantation and Cellular Therapy. 2021. Epub only: https://www.astct.org/viewdocument/ash-astct-covid-19-vaccination-for-1.

This document presents the American Society for Transplantation and Cellular Therapy and the American Society of Hematology (ASTCT/ASH) answers to the frequently asked questions on COVID-19 vaccine use in patients undergoing hematopoietic cell transplantation (HCT) and chimeric antigen receptor (CAR) T-cell therapy. The overall recommendation (as of the time of publication in April 2021) for these patients is to get vaccinated due to the proven efficacy and safety of the COVID-19 vaccines currently approved under Emergency Use Authorization in the US (Moderna, Pfizer & BioNTech and J&J). "All current guidance and responses are based on opinions of the ASTCT/ ASH COVID-19 Vaccine expert panel. This document will be updated periodically when new data becomes available."

Kleber J. What are sustainable solutions for pandemic personal protective equipment? Clinical Journal of Oncology Nursing. 2022;26(1):120.

A brief column discussing challenges with sourcing sufficient single-use personal protective equipment and the environmental concerns with its disposal, along with innovative patient care strategies that resulted when more carefully considering its use.

Levine RL. Cancer did not stay home for COVID-19. Science Advances. 2020;6(37): eabd7487. **PMCID: PMC7485988**

Dr. Ross Levine delineates the challenges COVID-19 has brought to cancer care and research in this editorial.

Levine RL, Rathmell WK. COVID-19 impact on early career investigators: A call for action. Nature Reviews Cancer. 2020;20(7):357-358. **PMCID: PMC7273376**

In this commentary, the authors discuss how the COVID-19 pandemic has impacted research, and they lay out initiatives to help early career researchers through a variety of innovations.

Lichtenthal WG, Roberts KE, Prigerson HG. Bereavement care in the wake of COVID-19: Offering condolences and referrals. Annals of Internal Medicine. 2020;173(10):833-835.

PMCID: PMC7346775

In the challenging time of COVID-19, the article gives physicians direction to assess the need for a mental health provider referral for bereaved family members. The authors also offer guidance to communicate condolences.

LoGiudice SH, Liebhaber A, Scho der H. Overcoming the COVID-19 crisis and planning for the future. Journal of Nuclear Medicine. 2020;61(8):1096-1101. PMCID: PMC7413231

In this article, the authors address how healthcare organizations and health systems can approach some of the uncertainties that have arisen due to the COVID-19 pandemic and adjust their planning and strategy development accordingly.

Maio M, Hamid O, Larkin J, Covre A, Altomonte M, Calabrò L, **Vardhana SA**, Robert C, Ibrahim R, Anichini A, **Wolchok JD**, Di Giacomo AM. Immune checkpoint inhibitors for cancer therapy in the COVID-19 era. Clinical Cancer Research. 2020;26(16):4201-4205.

The authors recommend continuing with immune checkpoint inhibitor immunotherapy during the pandemic and adhering to strict COVID screening practices for these patients.

Makkar P, Pastores SM. Respiratory management of adult patients with acute respiratory distress syndrome due to COVID-19. Respirology. 2020;25(11):1133-1135.

This commentary describes the various respiratory management strategies for COVID-19 patients with acute respiratory distress syndrome (ARDS).

McGary LHF, Vardhana SA. Vive la résistance: T-cell immunity in the protection against SARS-CoV-2 infection. Cancer Discovery. 2022;12(4):892-894.

In this spotlight, the authors comment on the article published by Fahrner et al. titled "The Polarity and Specificity of Antiviral T Lymphocyte Responses Determine Susceptibility to SARS-CoV-2 Infection in Patients with Cancer and Healthy Individuals."

Miller RC, **Tsai CJ**. Scholarly publishing in the wake of COVID-19. International Journal of Radiation Oncology, Biology, Physics. 2020;108(2):491-495. **PMCID: PMC7462968**

This communication piece discusses how the COVID-19 pandemic and subsequent need to quickly disseminate scientific literature

across the globe impacted scholarly communication and publishing.

Mislang AR, Soto-Perez-de-Celis E, Russo C, Colloca G, Williams GR, O'Hanlon S, Cooper L, O'Donovan A, Audisio RA, Cheung KL, Sarrió G, Stauder R, Jaklitsch M, Cairo C, Gil LA Jr, Sattar S, Kantilal K, Loh KP, **Lichtman SM**, Brain E, Wildiers H, Kanesvaran R, Battisti NML. The SIOG COVID-19 working group recommendations on the rollout of COVID-19 vaccines among older adults with cancer. Journal of Geriatric Oncology. 2021;12(5):848-850. **PMCID:**

PMC7934668

The International Society of Geriatric Oncology (SIOG) offers COVID-19 vaccination rollout guidelines to prioritize higher risk older patients with cancer.

Moerdler S, Gampel B, Levine JM, Chou A, Madhusoodhan P, Oberg JA, Pierro J, **Roberts SS**, Satwani P. COVID-19 has changed the way we think about training future pediatric hematologists/oncologists. Pediatric Blood and Cancer. 2021;68(8):e29088. **PMCID**:

PMC8209867

The development of a pediatric hematology oncology fellows education initiative during the pandemic, especially a multi-institutional collaborative education series, promises to reshape curriculum and educational opportunities moving forward.

Moon MR, **Jones DR**, Adams DH, Starnes VA. American Association for Thoracic Surgery: Maintaining the mission during the coronavirus disease 2019 (COVID-19) pandemic. Journal of Thoracic and Cardiovascular Surgery. 2020 Sep;160(3):737-739. **PMCID: PMC7229448**

In the time of COVID-19 pandemic many scientific activities were disrupted. This affected the activities of scholarly and professional societies, American Association for Thoracic Surgery (AATS) being one of them. Thus, the Association's 100th Annual Meeting could not be held in a physical setting. However, recognizing the importance of professional exchange between surgeons from 70 countries which would contribute significantly to the advancements in the field, this important forum was modified to be held virtually. The article also briefly outlines the early history of AATS which corresponded to the time of great world catastrophes.

Moreno CC, Yee J, Ahmed FS, Barish MA, Brewington C, Dachman AH, **Gollub MJ**, Kim DH, McFarland E, Pickhardt PJ, Reddy S, Zalis M, Chang KJ. CT colonography's role in the COVID-19 pandemic: A safe(r), socially distanced total colon examination. Abdominal Radiology. 2021;46(2):486-490. **PMCID: PMC7398602**

The favorable procedural profile of CT colonography (CTC) for colorectal cancer screening is described in this paper as it may be a reasonable alternative to optical colonoscopy during the COVID-19 pandemic.

Morjaria S, Nouvini R, Sirintrapun SJ. Strategic thinking in test selection for mass SARS-CoV-2 testing. Journal of Applied Laboratory Medicine. 2021;6(6):1688-1693. PMCID: PMC8344554

This article presents a COVID-19 testing framework based on thought experiments used for four frequently encountered community scenarios.

Moskowitz CS, **Panageas KS**. Implications for design and analyses of oncology clinical trials during the COVID-19 pandemic. JAMA Oncology. 2020;6(9):1326-1327.

In this viewpoint, the authors discuss best practices for clinical trials reporting and design. They also advise adapting designs when developing a new clinical trial.

Mukhopadhyay S, Booth AL, Calkins SM, Doxtader EE, **Fine SW**, Gardner JM, Gonzalez RS, Mirza KM, Jiang XS. Leveraging technology for remote learning in the era of COVID-19 and social distancing. Archives of Pathology & Laboratory Medicine. 2020;144(9):1027-1036.

This article is a guide for pathologists and pathologists-in-training. It provides a curated list of online resources for virtual learning, specifically in pathology, with a focus on anatomic pathology.

Mullangi S, Agrawal M, Schulman K. The COVID-19 pandemic - An opportune time to update medical licensing. JAMA Internal Medicine. 2021;181(3):307-308.

This article highlights the need to adapt state licensure requirements for physicians to the new practice patterns that emerged during the pandemic. For example, the rise of telemedicine during the pandemic allowed physicians to care for patients located in different states. This change in practice calls for adjustments to the physician licensure state laws.

Mullangi S, Diamond R, Patel KK. Bridging the divide between physicians and administrators during COVID-19. American Journal of Managed Care. 2020;26(12):499-500.

This article reflects on the tensions that COVID-19 brought about between physicians and administrators and ways in which solutions can be found to remedy them. The three key points are transparency in leadership, leadership to make sustainable investments in the community, and financial alignment between administrators and the front-line workers.

Mullangi S, Schleicher SM, **Aviki EM**. Innovation in cancer care delivery in the era of COVID-19. JCO Oncology Practice. 2020;16(11):718-719

Cancer centers had to adapt their care delivery models because of COVID-19. The authors describe three changes that they hope will stay: Eliminate low-value care, offer patient-centered substitutes, and justify start-up costs for technology adoption.

Mullangi S, Aviki EM, Hershman DL. Reexamining social determinants of health data collection in the COVID-19 era. JAMA Oncology. 2022;8(12):1736-1738.

This is a viewpoint that uses data from the American Society of Clinical Oncology's COVID-19 in Oncology Registry to study the association of various factors with cancer treatment delays among a cohort of patients who tested positive for SARS-CoV-2.

Nabhan C, Choueiri TK, **Mato AR**. Rethinking clinical trials reform during the COVID-19 pandemic. JAMA Oncology. 2020;6(9):1327-1329.

This viewpoint article details how COVID-19 has caused a significant change to how clinical trials are conducted, including telemedicine and virtual support for trial participants, laboratory tests and procedures done in clinics not affiliated with the trial, the

speed of recruitment into trials, and the focus on patient-reported outcomes. These are all changes that can shape how clinical trials are conducted in a post-COVID world to improve access to and impact of clinical trials.

Nolte FS, **Babady NE**, Buchan BW, Capraro GA, Graf EH, Leber AL, McElvania E, Yao JDC. Responding to the challenges of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2): Perspectives from the Association for Molecular Pathology Infectious Disease Subdivision Leadership. Journal of Molecular Diagnostics. 2020;22(8):968-974. **PMCID: PMC7303040**

In the era of pandemics, including COVID-19, laboratories are crucial as laboratory results make a foundation for subsequent care. Yet laboratories are facing many challenges in such times including regulatory, logistical, and supply-chain challenges. This article outlines the ways clinical laboratories addressed these challenges and offers recommendations for conducting laboratory work during the current pandemic.

Oberg CL, **Beattie JA**, Folch EE. Bronchoscopy and tracheostomy in the COVID-19 era. Chest Physician. 2020;15(10):34, 36.

A discussion of the use of bronchoscopy, tracheostomy, and other aerosol-generating procedures for asymptomatic, symptomatic, and critically ill COVID-19 patients.

Ortega P, Martínez G, **Diamond L**. Language and health equity during COVID-19: Lessons and opportunities. Journal of Health Care for the Poor and Underserved. 2020;31(4):1530-1535. **PMCID: PMC9165570**

In this commentary, the authors highlight three critical steps to implement during and beyond the pandemic to decrease linguistic minority communities' health disparities.

Paganelli G, **Bodei L**, Modlin I. A metastatic tumor is no different to a viral pandemic: Lessons learnt from COVID-19 may teach us to change the PRRT paradigm. European Journal of Nuclear Medicine and Molecular Imaging. 2020;47(10):2223-2226. **PMCID: PMC7305056**

This editorial article is an emotional appeal to the Oncologist, Radiologist and Endocrinologist communities to compare the process of Peptide Receptor RadioTherapy (PRRT) acceptance and implementation with the deficiencies of COVID-19 pandemic response and to make PRRT implementation process efficient based on lessons learned from the COVID-19 pandemic.

Papa N, Roberts MJ, **Perera M**. The continuing impacts of the COVID-19 pandemic on diagnosis and surgical prostate cancer management: A population-based analysis. ANZ Journal of Surgery. 2022;92(5):950-952. **PMCID: PMC9111377**

This paper explores trends in prostate cancer screening and surgery volume in Australia from January 2020 through December 2021 and compares those rates to the preceding 10 years.

Papanicolaou GA, Neofytos D. Transplant infectious disease landscape in the COVID19-Era. Current Opinion in Infectious Diseases. 2021;34(4):273-274.

This editorial describes how even during the COVID-19 pandemic patients were still receiving transplants, however COVID-19 presented significant challenges for patients post-transplant.

Parekh de Campos A, Levoy K, **Pandey S**, **Wisniewski R**, DiMauro P, Ferrell BR, **Rosa WE**. Integrating palliative care into nursing care. American Journal of Nursing. 2022;122(11):40-45.

An editorial that explores how the COVID-19 pandemic has shown the need for palliative care education and training, especially amongst nurses.

Park ER, Chiles C, Cinciripini PM, Foley KL, Fucito LM, Haas JS, Joseph AM, **Ostroff JS**, Rigotti NA, Shelley DR, Taylor KL, Zeliadt SB, Toll BA, on behalf of the Smoking Cessation at Lung Examination (SCALE) Research Group. Impact of the COVID-19 pandemic on telehealth research in cancer prevention and care: A call to sustain telehealth advances. Cancer. 2021;127(3):334-338. **PMCID: PMC7675475**

This commentary describes the history and barriers of telehealth and how the COVID-19 pandemic impacted telehealth and its use in clinical research.

Pastuszak AW, Patel DP, Jenkins LC, Hsieh TC, Yafi FA, Mumford SL, **Mulhall JP**, Hotaling JM. A call for quality: Substandard research in male sexual and reproductive medicine during the COVID-19 pandemic. Journal of Sexual Medicine. 2022;19(1):1-4. **PMCID: PMC8556583**

In the expert opinion, the authors report on quality issues from papers published during the COVID-19 pandemic. They specifically looked at research papers on the topic of male sexual and reproductive medicine, but their findings could apply to other fields.

Patel R, **Babady E**, Theel ES, Storch GA, Pinsky BA, St. George K, Smith TC, Bertuzzi S. Report

from the American Society for Microbiology COVID-19 International Summit, 23 March 2020: Value of diagnostic testing for SARS-CoV-2/COVID-19. mBio. 2020;11(2): e00722-20. **PMCID: PMC7157705**

A report describing the use and value of the two types of COVID-19 tests, viral RNA tests and serology tests, and how to leverage these tests to address the pandemic.

Perni S, Milligan MG, Saraf A, Vivenzio T, Marques A, Baker MA, Kosak T, Bartlett S, Physic MA, Batchelder MR, **McBride S**, Bredfeldt J, Cail DW, Kearney MC, Whitehouse C, Orio P, Walsh G, Haas-Kogan DA, Martin NE. Treating the SARS-CoV-2-positive patient with cancer: A proposal for a pragmatic and transparent ethical process. Cancer. 2020;126(17):3896-3899. **PMCID: PMC7283895**

In this commentary, the authors describe the creation and implementation of a multidisciplinary treatment prioritization committee and its ethical and transparent decision-making processes that could be applicable to other oncologic settings.

Prockop SE. Expanding the toolbox to combat a pandemic. Blood. 2020;136(25):2847-2848. **PMCID: PMC7751362**

This is a comment about an article published in Blood by Keller and colleagues. "Keller MD, Harris KM, Jensen-Wachspress MA, et al. SARS-CoV-2–specific T cells are rapidly expanded for therapeutic use and target conserved regions of the membrane protein.

Blood. 2020;136(25):2905-2917. Rao PN, Jotwani R, Joshi J, **Gulati A**, Mehta N. Reevaluating chronic opioid monitoring during and after the COVID-19 pandemic. Pain Management. 2020;10(6):353-358. **PMCID: PMC7505054**

This commentary explores what remote opioid management by pain management providers looks like in the time of the COVID-19 pandemic and the considerations that should be made "...in an attempt to further mitigate risks of both COVID-19 exposure and opioid misuse."

Redelman-Sidi G. Could BCG be used to protect against COVID-19? Nature Reviews Urology. 2020;17(6):316-317. **PMCID: PMC7184546**

The author comments on clinical studies that are trying to determine whether BCG vaccination could protect humans against COVID-19 infection. Discussed are data from a non-peer-reviewed publication and the trials in progress, while important questions are considered about how this will impact bladder cancer patients who have been or will be treated with BCG.

Rocco G. Commentary: Echoes of war. Journal of Thoracic and Cardiovascular Surgery. 2020;160(2):594-595. **PMCID: PMC7151486**

This commentary by MSK thoracic surgeon Dr. Gaetano Rocco discusses how early reports of the pandemic from China and Italy should inform surgical care in New York, the new epicenter of COVID at the time of publication.

Romesser PB, Wu AJ, Cercek A, Smith JJ, Weiser M, Saltz L, Garcia-Aguilar J, Crane CH. Management of locally advanced rectal cancer during the COVID-19 pandemic: A necessary

paradigm change at Memorial Sloan Kettering Cancer Center. Advances in Radiation Oncology. 2020;5(4):687-689. **PMCID: PMC7175910**

MSK practitioners detail how COVID-19 changed the standard of care for rectal cancer patients at the hospital.

Rosa WE. Overview and summary: The COVID-19 pandemic and nurses: Caring for others and ourselves. 2021;26(2).

This overview describes the impact of the COVID-19 pandemic on nurses and the nursing profession.

Rosa WE, Ferrell BR, **Applebaum AJ**. The alleviation of suffering during the COVID-19 pandemic. Palliative and Supportive Care. 2020;18(4):376-378. **PMCID: PMC7322158**

This editorial article delineates the types of mental suffering brought on by COVID-19 and discusses how palliative care practices can inform responses to these challenges.

Rosa WE, Finlayson CS, Ferrell BR. The cancer nurse as primary palliative care agent during COVID-19. Cancer Nursing. 2020;43(6):431-432.

This editorial highlights the amplified role of cancer nurses as primary palliative care agents in the unprecedented time of COVID-19. The authors note their inestimable value as "...educational resources to support the delivery of primary palliative care."

Rosa WE, Fitzgerald M, Davis S, Farley JE, Khanyola J, Kwong J, Moreland PJ, Rogers M, Sibanda B, Turale S. Leveraging nurse practitioner capacities to achieve global health for all: COVID-19 and beyond. International Nursing Review. 2020;67(4):554-559. **PMCID:**

PMC7537537

This paper makes a case for why Nurse Practitioners (NPs) are currently under-uti-lized across the globe and argues that their capacities/skills should be better leveraged at all levels and that - especially in the face of a global pandemic - nurse practitioner scopes of practice should be expanded across nations.

Rosa WE, Gray TF, **Chow K**, Davidson PM, Dionne-Odom JN, Karanja V, Khanyola J, Kpoeh JDN, Lusaka J, Matula ST, Mazanec P, Moreland PJ, **Pandey S**, de Campos AP, Meghani SH. Recommendations to leverage the palliative nursing role during COVID-19 and future public health crises. Journal of Hospice & Palliative Nursing. 2020;22(4):260-269. **PMCID: PMC8018720**

This article provides recommendations for palliative care nurses and other healthcare providers to ensure that their optimal value is realized and leveraged during COVID-19 and future public health crises.

Rosa WE, Levoy K, Battista V, Dahlin C, Thaxton C, Greer K. Using the nurse coaching process to support bereaved staff during the COVID-19 crisis. Journal of Hospice & Palliative Nursing. 2021;23(5):403-405. **PMCID: PMC8410627**

This article presents a step-by-step coaching process for nurses intended to mitigate psychological distress in health practitioners caused by mass bereavement during COVID-19 pandemic.

Rosa WE, Roberts KE, Schlak AE, Applebaum AJ, Breitbart WS, Kantoff EH, Pessin H, Lichtenthal WG. The critical need for a

meaning-centered team-level intervention to address healthcare provider distress now. International Journal of Environmental Research and Public Health. 2022;19(13):7801. P MCID: PMC9265276

This article discusses how Meaning-Centered Psychotherapy, an intervention developed initially to help cancer patients, could be adapted to assist with healthcare providers' burnout and distress.

Rossi D, Shadman M, Condoluci A, Brown JR, Byrd JC, Gaidano G, Hallek M, Hillmen P, **Mato A**, Montserrat E, Ghia P. How we manage patients with chronic lymphocytic leukemia during the SARS-CoV-2 pandemic. HemaSphere. 2020;4(4):e432. **PMCID: PMC7410019**

Cancer patients with COVID-19 are especially vulnerable to infection and their treatment during the pandemic has to be reviewed and revised in that new light. This article provides expert opinion, based on literature review, on treatment adjustments needed for patients with Chronic Lymphocytic Leukemia at the time of the pandemic.

Santos PMG, **Dee EC**, Deville C Jr. Confronting anti-Asian racism and health disparities in the era of COVID-19. JAMA Health Forum. 2021;2(9):e212579.

With the inequities exposed by the COVID-19 pandemic as a backdrop, this is a viewpoint of three areas that are needed to confront the harms of anti-Asian sentiment on Asian American health: disaggregation and genetic ancestry in medical research, cultural humility in clinical practice, and workforce diversity.

Sarpatwari A, Kaltenboeck A, Kesselheim

AS. Missed opportunities on emergency remdesivir use. JAMA - Journal of the American Medical Association. 2020;324(4):331-332.

This editorial expresses concerns about the emergency-use authorization of remdesivir for COVID: A lack of robust monitoring of drug safety and effectiveness and pricing issues.

Schenk EC, Potter TM, Cook C, Huffling K, **Rosa WE**. Nurses promoting inclusive, safe, resilient, and sustainable cities and communities: Taking action on COVID-19, systemic racism, and climate change. American Journal of Nursing. 2021;121(7):66-69. **PMCID: PMC8768888**

This article discusses how nurses can help with attaining the United Nations (UN) Sustainable Development Goal II (SDG-II), making "...cities and human settlements inclusive, safe, resilient and sustainable."

Shah JP. The impact of COVID-19 on head and neck surgery, education, and training. Head & Neck. 2020;42(6):1344-1347. **PMCID: PMC7264554**

In these trying times of COVID-19, renowned Head and Neck Surgeon, Dr. Jatin Shah, considers the question "...how do we conduct our day-to-day activities, and plan to retain our robust education and training programs, to educate and train the next generation of head and neck surgeons?" and discusses "...embracing technology and alternative means" to deal with these challenges.

Shah UA. Cancer and coronavirus disease 2019 (COVID-19) - Facing the "C words". JAMA Oncology. 2020;6(9):1330-1331.

In this opinion piece, an MSK oncologist

and cancer survivor who was diagnosed with Hodgkin lymphoma during her fellowship training, reflects on being diagnosed with COVID-19.

Sheridan L. Community in the time of COVID-19. Rehabilitation Oncology. 2020;38(4):141-142.

Laura Sheridan, PT, DPT, CLT, the president of the Academy of Oncologic Physical Therapy, shares her perspective on how community and support of one another has been an important constant throughout the COVID-19 pandemic and will continue to be so in the rapidly changing healthcare landscape.

Tan KS. A concern about survival time as an endpoint in coronavirus disease 2019 clinical trials. Clinical Trials. 2020;17(5):505-506. **PMCID: PMC7530002**

In this article, the author highlights the importance of adapting statistical methods to analyze survival in COVID-19 clinical trials.

The COVID-19 Subcommittee of the O.R. Executive Committee at Memorial Sloan Kettering. Cancer surgery and COVID19. Annals of Surgical Oncology. 2020;27(6):1713-1716. PMCID: PMC7153355

This editorial describes cancer surgery practice at the time of the COVID-19 pandemic at the Memorial Sloan Kettering Cancer Center. It outlines the challenges faced and the solutions found. The insights from this leading cancer dedicated institution could be helpful for any institution which conducts surgeries in cancer patients.

The Covid-19 Subcommittee of the Operat-

ing Room Executive Committee, Kamboj M, Pessin M, Barber T. Comment on "Screening of Asymptomatic Surgical Patients for SARS-CoV-2: The Covid19 Subcommittee of the Operating Room Executive Committee". Annals of Surgery. 2020;272(3):e243. PMCID: PMC7467031

This commentary describes a protocol for preoperative assessment of patients for COVID-19 to minimize risk of conducting surgery on COVID-positive patients.

Thomas J, **Rossi AM**. Skin cancer management during the COVID-19 pandemic. Cutis. 2020;106(6):E4-E8.

These recommendations for dermatologists recommend following National Comprehensive Cancer Network and European Society

for Medical Oncology guidelines to reduce COVID transmission risk while treating skin cancer patients.

Trama A, Proto C, Whisenant JG, Torri V, Cortellini A, Michielin O, Barlesi F, Dingemans AMC, Van Meerbeeck J, Pancaldi V, Mazieres J, Soo RA, Leighl NB, Peters S, Wakelee H, Horn L, **Hellmann M**, Wong SK, Garassino MC, Baena J. Supporting clinical decision-making during the SARS-CoV-2 pandemic through a global research commitment: The TERAVOLT experience. Cancer Cell. 2020;38(5):602-604. **PMCID: PMC7534826**

This commentary details how a global collaboration for data collection within the Thoracic Cancers International COVID-19 Collaboration (TERAVOLT) was instrumental in providing decision-making in thoracic cancer. The limits of the registry are also discussed.

Trevino KM, Raghunathan N, Latte-Naor S, Polubriaginof FCG, Jensen C, Atkinson TM, Emard N, Seluzicki CM, Ostroff JS, Mao JJ. Rapid deployment of virtual mind-body interventions during the COVID-19 outbreak: Feasibility, acceptability, and implications for future care. Supportive Care in Cancer. 2021;29(2):543-546. PMCID: PMC7479401

This article describes the rapid deployment of remotely delivered mind-body therapies and services to patients with cancer. The study found high utilization and satisfaction with the virtual services.

Vardhana S, Baldo L, Morice WG 2nd, Wherry EJ. Understanding T cell responses to COVID-19 is essential for informing public health strategies. Science Immunology. 2022;7(71):eabo1303.

In this viewpoint, the authors describe how a better understanding of T-cell response and detection would help with a future public health plan of action toward COVID-19.

Vardhana SA, Wolchok JD. The many faces of the anti-COVID immune response. Journal of Experimental Medicine. 2020;217(6): e20200678. **PMCID: PMC7191310**

In this editorial, the authors "...explore the contributions of the innate and adaptive immune systems to both viral control as well as toxicity during COVID-19 infections and offer suggestions to both understand and therapeutically modulate anti-COVID immunity."

Villar J, Confalonieri M, **Pastores SM**, Meduri GU. Rationale for prolonged corticosteroid treatment in the acute respiratory distress

syndrome caused by Coronavirus Disease 2019. Critical Care Explorations. 2020;2(4):e0111.

PMCID: PMC7188431

Recommendations for corticosteroids for COVID-19-associated acute respiratory distress syndrome. Based on the current lack of strong evidence, the authors advise that it is unethical to deny the administration of corticosteroids to COVID-19 ARDS patients experiencing severe cytokine storm.

von Delft F, **Chodera J**, Griffen E, Lee AL, London N, Matviuk T, Perry B, Robinson M, Calmiano M, von Delft A. A white-knuckle ride of open COVID drug discovery. Nature. 2021;594(7863):330-332.

In this comment, the authors report on a team assembled from Twitter called the COVID moonshot. One hundred fifty collaborators work on open drug-discovery research.

Wang E, **Tsai CJ**, Miller RC. The international response to the coronavirus disease (2019) COVID-19 pandemic in radiation oncology. Advances in Radiation Oncology. 2020;5(4):523-524. **PMCID: PMC7323675**

This article serves as an introduction to a special issue of the Society for Radiation Oncology's Advances in Radiation Oncology. It describes the evolution of topics and manuscript submissions as the practice of radiation oncology around the world has been impacted in response to the COVID-19 pandemic.

Williams BJ, Fraggetta F, **Hanna MG**, Huang R, Lennerz J, Salgado R, **Sirintrapun SJ**, Pantanowitz L, Parwani A, Zarella M, Treanor DE. The future of pathology: What can we learn from the COVID-19 pandemic? Journal of Pathology

Informatics. 2020;11:15. PMCID: PMC7363060

This editorial emphasizes the importance of Digital Pathology, and its advantages over classic laboratory techniques, highlighted by the COVID-19 pandemic.

Yerramilli D, Xu AJ, Gillespie EF, Shepherd AF, Beal K, Gomez D, Yamada J, Tsai CJ, Yang TJ. Palliative radiation therapy for oncologic emergencies in the setting of COVID-19: Approaches to balancing risks and benefits. Advances in Radiation Oncology. 2020;5(4):589-594. PMCID: PMC7194647

The authors state that abbreviated courses of palliative radiation during the COVID-19 pandemic can best maximize benefits to metastatic cancer patients and reduce risks of viral transmission.

Zeidan AM, Boddu PC, Patnaik MM, Bewersdorf JP, Stahl M, Rampal RK, Shallis RM, Steensma DP, Savona MR, Sekeres MA, Roboz GJ, DeAngelo DJ, Schuh AC, Padron E, Zeidner JF, Walter RB, Onida F, Fathi AT, DeZern A, Hobbs G, **Stein EM**, Vyas P, Wei AH, Bowen DT, Montesinos P, Griffiths EA, Verma AK, Keyzner A, Bar-Natan M, Navada SC, Kremyanskaya M, Goldberg AD, Al-Kali A, Heaney ML, Nazha A, Salman H, Luger S, Pratz KW, Konig H, Komrokji R, Deininger M, Cirici BX, Bhatt VR, Silverman LR, Erba HP, Fenaux P, Platzbecker U, Santini V, Wang ES, Tallman MS, Stone RM, Mascarenhas J. Special considerations in the management of adult patients with acute leukaemias and myeloid neoplasms in the COVID-19 era: Recommendations from a panel of international experts. The Lancet Haematology. 2020;7(8):e601-e612. PMCID:

PMC7302757

This article presents recommendations from a group of international experts from major cancer institutions and academic medical centers in the U.S.A., Europe, and Australia on different aspects of managing patients with hematological cancers adjusted for specific circumstances of the COVID-19 pandemic.

Zhang H, Cha EE, Lynch K, Cahlon O, Gomez DR, Shaverdian N, Gillespie EF. Radiation oncologist perceptions of telemedicine from consultation to treatment planning: A mixed-methods study. International Journal of Radiation Oncology, Biology, Physics. 2020;108(2):421-429. PMCID:

PMC7462757

This study looks at the views of radiation oncologists on telemedicine at MSKCC. The study found that for the most part physicians found telemedicine to be a positive experience and the focus should be on increasing access to care for patients limited by location and financial constraints.

Algwaiz G, Aljurf M, Koh M, Horowitz MM, Liungman P. Weisdorf D. Saber W. Kodera Y. Szer J, Jawdat D, Wood WA, Brazauskas R, Lehmann L, Pasquini MC, Seber A, Lu PH, Atsuta Y, Riches M, Perales MA, Worel N, Okamoto S, Srivastava A, Chemaly RF, Cordonnier C, Dandoy CE, Wingard JR, Kharfan-Dabaja MA, Hamadani M, Majhail NS, Waghmare AA, Chao N, Kröger N, Shaw B, Mohty M, Niederwieser D, Greinix H, Hashmi SK, for the WBMT and the CIBMTR Health Services and International Studies Committee, Real-world issues and potential solutions in hematopoietic cell transplantation during the COVID-19 pandemic: Perspectives from the Worldwide Network for Blood and Marrow Transplantation and Center for International Blood and Marrow Transplant Research Health Services and International Studies Committee. Biology of Blood and Marrow Transplantation. 2020;26(12):2181-2189. **PMCID: PMC7380217**

The Worldwide Network for Blood and Marrow Transplantation (WBMT) and the Center for International Blood and Marrow Transplant Research's (CIBMTR) Health Services and International Studies Committee collaborated to write these worldwide guidelines on Hematopoietic Cell Transplantation in the times of COVID-19.

Avutu V, Monga V, Mittal N, Saha A, Andolina JR, Bell DE, Fair DB, Flerlage JE, Frediani JN, Heath JL, Kahn JM, Reichek JL, Super L, Terao MA, Freyer DR, Roth ME. Use of communication technology to improve clinical trial participation in adolescents and young adults with cancer: Consensus statement From the Children's Oncology Group Adolescent and Young Adult Responsible Investigator Network. JCO

Oncology Practice. 2022;18(3):224-231. **PMCID: PMC8932547**

This consensus statement by the Children's Oncology Group (COG) AYA Responsible Investigator (RI) Network "...reviews opportunities to use technology to optimize AYA trial enrollment and study conduct, as well as considerations for widespread implementation of these practices...," something which became more relevant due to the COVID-19 pandemic when communication technology was more rapidly adopted.

Baldassarre LA, Yang EH, Cheng RK, DeCara JM, Dent S, **Liu JE**, Rudski LG, Strom JB, Thavendiranathan P, Barac A, Zaha VG, Bucciarelli-Ducci C, Ellahham S, Deswal A, Lenneman C, Villarraga HR, Blaes AH, Ismail-Khan R, Ky B, Leja MJ, Scherrer-Crosbie M. Cardiovascular care of the oncology patient during COVID-19: An expert consensus document from the ACC Cardio-Oncology and Imaging Councils. JNCI: Journal of the National Cancer Institute. 2021;113(5):513-522. **PMCID: PMC7717327**

A consensus statement on cardiovascular care for cardio-oncology patients during the pandemic.

Ben-Arye E, Paller CJ, Lopez AM, White S, **Pendleton E**, Kienle GS, Samuels N, Abbawaajii N, Balneaves LG. The Society for Integrative Oncology Practice recommendations for online consultation and treatment during the COVID-19 pandemic. Supportive Care in Cancer. 2021;29(10):6155-6165. **PMCID: PMC8044504**

The Society for Integrative Oncology Practice recommendations include recommendations for online practice of manual, acupuncture, movement, mind-body, herbal, and expressive art therapies.

Brissot E, Labopin M, Baron F, Bazarbachi A, Bug G, Ciceri F, Esteve J, Giebel S, Gilleece MH, Gorin NC, Lanza F, Peric Z, Ruggeri A, Sanz J, Savani BN, Schmid C, **Shouval R**, Spyridonidis A, Versluis J, Nagler A, Mohty M. Management of patients with acute leukemia during the COVID-19 outbreak: Practical guidelines from the acute leukemia working party of the European Society for Blood and Marrow Transplantation. Bone Marrow Transplantation. 2021;56(3):532-535. **PMCID: PMC7289070**

These working group guidelines recommend in-hospital practices to reduce COVID-19 infection among patients with leukemia, along with best practices for screening, treatment, and clinical trial participation.

Dioverti V, Boghdadly ZE, **Shahid Z**, Waghmare A, Abidi MZ, Pergam S, Boeckh M, Dadwal S, **Kamboj M, Seo S**, Chemaly RF, **Papanicolaou GA**. Revised guidelines for Coronavirus Disease 19 management in hematopoietic cell transplantation and cellular therapy recipients (August 2022). Transplantation and Cellular Therapy. 2022;28(12):810-821. **PMCID: PMC9464362**

An update to the 2020 guidelines for the diagnosis and management of COVID-19 in adult and pediatric hematopoietic cell transplantation and cellular therapy recipients, produced using available data and the expert opinion of the American Society for Transplantation and Cellular Therapy (ASTCT) Infectious Diseases Special Interest Group members.

Fader AN, Huh WK, Kesterson J, Pothuri B, Wethington S, Wright JD, Bakkum-Gamez JN, Soliman PT, Sinno AK, **Leitao M**, Martino MA, Karam A, Rossi E, Brown J, Blank S, Burke W, Goff B, Yamada SD, Uppal S, Dowdy SC. When to operate, hesitate and reintegrate: Society of Gynecologic Oncology Surgical considerations during the COVID-19 pandemic. Gynecologic Oncology. 2020;158(2):236-243. **PMCID:**

Society of Gynecologic Oncology recommendations for when to operate and when to delay gynecologic cancer surgery during the COVID-19 pandemic.

PMC7275160

Givi B, Schiff BA, Chinn SB, Clayburgh D, Iyer NG, Jalisi S, Moore MG, Nathan CA, Orloff LA, O'Neill JP, Parker N, Zender C, **Morris LGT**, Davies L. Safety recommendations for evaluation and surgery of the head and neck during the COVID-19 pandemic. JAMA Otolaryngology - Head and Neck Surgery. 2020;146(6):579-584.

This report identifies safety recommendations for clinicians performing head and neck procedures and surgeries during the COVID-19 pandemic.

Griffiths EA, Alwan LM, Bachiashvili K, Brown A, Cool R, Curtin P, **Geyer MB**, Gojo I, Kallam A, Kidwai WZ, Kloth DD, Kraut EH, Lyman GH, Mukherjee S, Perez LE, Rosovsky RP, Roy V, Rugo HS, Vasu S, Wadleigh M, Westervelt P, Becker PS. Considerations for use of hematopoietic growth factors in patients with cancer related to the COVID-19 pandemic. Journal of the National Comprehensive Cancer Network. 2021;19(13):18-21.

Hematopoietic cell growth factors are agents known to support proliferation and differentiation of blood cells. They are used in cancer care in the treatment of chemotherapy-induced neutropenia, myelodysplastic syndromes, and bone marrow failure syndromes. As with other cancer-related therapeutics, the use of these agents in the time of the COVID-19 pandemic needed adjustments. This article reports on the National Comprehensive Cancer Network (NCCN) recommendations for adjustments in the use of these agents in the time of the COVID-19 pandemic, to ensure optimal care in the face of multiple new factors the pandemic brought in.

Guckenberger M, Belka C, Bezjak A, Bradley J, Daly ME, DeRuysscher D, Dziadziuszko R, Faivre-Finn C, Flentje M, Gore E, Higgins KA, Iyengar P, Kavanagh BD, Kumar S, Le Pechoux C, Lievens Y, Lindberg K, McDonald F, Ramella S, Rengan R, Ricardi U, **Rimner A**, Rodrigues GB, Schild SE, Senan S, **Simone CB 2nd**, Slotman BJ, Stuschke M, Videtic G, Widder J, Yom SS, Palma D. Practice recommendations for lung cancer radiotherapy during the COVID-19 pandemic: An ESTRO-ASTRO consensus statement. International Journal of Radiation Oncology, Biology, Physics. 2020;107(4):631-640. **PMCID: PMC7836268**

A consensus statement of 32 experts in lung cancer recommend adhering to guidelines for recommended practice. For patients positive for COVID-19, it's recommended to postpone or interrupt radiation therapy. In a severe pandemic scenario, patients should be triaged based on a variety of factors.

Guckenberger M, Belka C, Bezjak A, Bradley J, Daly ME, DeRuysscher D, Dziadziuszko R, Faivre-Finn C, Flentje M, Gore E, Higgins KA, Iyengar P, Kavanagh BD, Kumar S, Le Pechoux C, Lievens Y, Lindberg K, McDonald F, Ramella S, Rengan R, Ricardi U, **Rimner A**, Rodrigues GB, Schild SE, Senan S, **Simone CB 2nd**, Slotman BJ, Stuschke M, Videtic G, Widder J, Yom SS, Palma D. Practice recommendations for lung cancer radiotherapy during the COVID-19 pandemic: An ESTRO-ASTRO consensus statement. Radiotherapy and Oncology. 2020;146:223-229. **PMCID:**

A consensus statement of 32 experts in lung cancer recommend adhering to guidelines for recommended practice. For patients positive for COVID-19, it's recommended to postpone or interrupt radiation therapy. In a

severe pandemic scenario, patients should be triaged based on a variety of factors.

Khawaja F, **Papanicolaou G**, Dadwal S, Pergam SA, Wingard JR, Boghdadly ZE, Abidi MZ, Waghmare A, Shahid Z, Michaels L, Hill JA, **Kamboj M**, Boeckh M, Auletta JJ, Chemaly RF. Frequently Asked Questions on Coronavirus Disease 2019 Vaccination for Hematopoietic Cell Transplantation and Chimeric Antigen Receptor T-Cell Recipients from the American Society for Transplantation and Cellular Therapy and the American Society of Hematology. Transplantation and Cellularl Therapy. 2023;(1):10-18. **PMCID: PMC9584756**

A guidance document in the form of frequently asked questions that is based on current knowledge about COVID-19 vaccination in hematopoietic cell transplantation and chimeric antigen receptor T-cell recipients.

Lou E, Beg S, Bergsland E, Eng C, Khorana A, Kopetz S, Lubner S, **Saltz L**, Shankaran V, Zafar SY. Modifying practices in Gl oncology in the face of COVID-19: Recommendations from expert oncologists on minimizing patient risk. JCO Oncology Practice. 2020;16(7):383-388.

A group of expert oncologists in the field of GI oncology summarize recommendations for adapting/changing practices in response to the COVID-19 pandemic, and carefully consider the costs versus benefits to patients when modifying treatment and practice.

Miles BA, Schiff B, **Ganly I**, Ow T, Cohen E, Genden E, Culliney B, Mehrotra B, Savona S, **Wong RJ**, Haigentz M, Caruana S, Givi B, Patel K, Hu K. Tracheostomy during SARS-CoV-2 pandemic: Recommendations from the New York Head and Neck Society. Head & Neck. 2020;42(6):1282-1290. **PMCID: PMC7264578**

The New York Head and Neck Society provides guidance on performing tracheostomy procedures for patients with COVID-19.

Mohile S, Dumontier C, Mian H, Loh KP, Williams GR, Wildes TM, Boyd K, Ramsdale E, Pyne S, Magnuson A, **Tew W**, Klepin HD, Dale W, **Shahrokni A**. Perspectives from the Cancer and Aging Research Group: Caring for the vulnerable older patient with cancer and their caregivers during the COVID-19 crisis in the United States. Journal of Geriatric Oncology. 2020;11(5):753-760. **PMCID: PMC7172832**

Recommendations from the Cancer and Aging Research Group on how to safely treat older patients with cancer.

Pennell NA, Dillmon M, Levit LA, Moushey EA, Alva AS, Blau S, Cannon TL, Dickson NR,

Diehn M, **Gonen M**, Gonzalez MM, Hensold JO, Hinyard LJ, King T, Lindsey SC, Magnuson A, Marron J, McAneny BL, McDonnell TM, Mileham KF, Nasso SF, Nowakowski GS, Oettel KR, Patel MI, Patt DA, Perlmutter J, Pickard TA, Rodriguez G, Rosenberg AR, Russo B, Szczepanek C, Smith CB, Srivastava P, Teplinsky E, Thota R, **Traina TA**, Zon R, Bourbeau B, Bruinooge SS, Foster S, Grubbs S, Hagerty K, Hurley P, Kamin D, Phillips J, Schenkel C, Schilsky RL, Burris HA 3rd. American Society of Clinical Oncology Road to Recovery report: Learning from the COVID-19 experience to improve clinical research and cancer care. Journal of Clinical Oncology. 2021;39(2):155-169.

This article reports on the new recommendations from the American Society of Clinical Oncology (ASCO), the world's leading professional organization for physicians who care for people with cancer. The new recommendations are based on evaluation of the COVID-19 pandemic experience and are aimed at improved patient access to high quality cancer research and cancer care delivery going forward.

Schiaffino S, **Pinker K**, Magni V, Cozzi A, Athanasiou A, Baltzer PAT, Camps Herrero J, Clauser P, Fallenberg EM, Forrai G, Fuchsjäger MH, Helbich TH, Kilburn-Toppin F, Kuhl CK, Lesaru M, Mann RM, Panizza P, Pediconi F, Pijnappel RM, Sella T, Thomassin-Naggara I, Zackrisson S, Gilbert FJ, Sardanelli F. Axillary lymphadenopathy at the time of COVID-19 vaccination: Ten recommendations from the European Society of Breast Imaging (EUSOBI). Insights into Imaging. 2021;12:119. **PMCID: PMC8378785**

The European Society of Breast Imaging (EUSOBI)'s recommendations for breast imaging and COVID-19 vaccination to prevent

unnecessary imaging and procedures resulting from COVID-19 vaccine-related enlarged lymph nodes.

Soto-Perez-de-Celis E, Mislang AR, Hernández-Favela CG, Russo C, Colloca G, Williams GR, O'Hanlon S, Cooper L, O'Donovan A, Audisio RA, Cheung KL, Gironés-Sarrió R, Stauder R, Jaklitsch M, Cairo C, Gil LA Jr, Alam M, Sattar S, Kantilal K, Loh KP, **Lichtman SM**, Brain E, Wildiers H, Kanesvaran R, Battisti NML. Updated International Society of Geriatric Oncology COVID-19 Working Group recommendations on COVID-19 vaccination among older adults with cancer. Journal of Geriatric Oncology. 2022;13(7):1054-1057. **PMCID: PMC9283597**

Updated recommendations from the International Society of Geriatric Oncology (SIOG) building on their initial set from 2021 regarding COVID-19 vaccinations among older adults with cancer.

Talaulikar D, Advani RH, Branagan AR, Buske C, Dimopoulos MA, D'Sa S, Kersten MJ, Leblond V, Minnema MC, Owen RG, **Palomba ML**, Tedeschi A, Trotman J, Varettoni M, Vos JM, Treon SP, Kastritis E, Castillo JJ. Consensus statement on the management of Waldenström macroglobulinemia patients during the COVID-19 pandemic. HemaSphere. 2020;4(4):e433.

PMCID: PMC7410025

The International Workshop on Waldenström Macroglobulinemia (IWWM) Treatment Recommendations Panel provides answers to help guide patient therapy during the pandemic.

Thomson DJ, Palma D, Guckenberger M, Balermpas P, Beitler JJ, Blanchard P, Brizel D, Budach

W, Caudell J, Corry J, Corvo R, Evans M, Garden AS, Giralt J, Gregoire V, Harari PM, Harrington K, Hitchcock YJ, Johansen J, Kaanders J, Koyfman S, Langendijk JA, Le QT, Lee N, Margalit D, Mierzwa M, Porceddu S, Soong YL, Sun Y, Thariat J, Waldron J, Yom SS. Practice recommendations for risk-adapted head and neck cancer radiation therapy during the COVID-19 pandemic: An ASTRO-ESTRO consensus statement, International Journal of Radiation Oncology, Biology, Physics. 2020;107(4):618-627. **PMCID: PMC7194855**

Joint recommendations from the American Society of Radiation Oncology (ASTRO) and the European Society for Radiotherapy and Oncology (ESTRO) offer guidance on how to proceed with radiation procedures during the COVID-19 pandemic.

Thomson DJ, Palma D, Guckenberger M, Balermpas P, Beitler JJ, Blanchard P, Brizel D, Budach W, Caudell J, Corry J, Corvo R, Evans M, Garden AS, Giralt J, Gregoire V, Harari PM, Harrington K, Hitchcock YJ, Johansen J, Kaanders J, Koyfman S, Langendijk JA, Le QT, Lee N, Margalit D, Mierzwa M, Porceddu S, Soong YL, Sun Y, Thariat J, Waldron J, Yom SS. Practice recommendations for risk-adapted head and neck cancer radiotherapy during the COVID-19 pandemic: An ASTRO-ESTRO consensus statement. Radiotherapy and Oncology. 2020;151:314-321. **PMCID: PMC7384409**

Joint recommendations from the American Society of Radiation Oncology (ASTRO) and the European Society for Radiotherapy and Oncology (ESTRO) offer guidance for radiation oncologists treating head and neck cancer (HNC) on how to proceed with radiation procedures during the COVID-19 pandemic.

Waghmare A, Abidi MZ, Boeckh M, Chemaly RF, Dadwal S. El Boghdadly Z. Kamboi M. Papanicolaou GA, Pergam SA, Shahid Z. Guidelines for COVID-19 management in hematopoietic cell transplantation and cellular therapy recipients. Biology of Blood and Marrow Transplantation. 2020;26(11):1983-1994. PMCID: PMC7386267

Guidelines for the diagnosis and management of COVID-19 in adult and pediatric hematopoietic cell transplantation and cellular therapy recipients, produced using available data and the expert opinion of the American Society for Transplantation and Cellular Therapy Infectious Diseases Special Interest Group members.

Waghmare A, Boeckh M, Chemaly RF, Dadwal SS, Papanicolaou GA, Pergam S. Interim guidelines for COVID-19 management in hematopoietic cell transplant and cellular therapy patients. American Society for Transplantation and Cellular Therapy (ASTCT). 2020. Version 1.1. Epub only: https://higherlogicdownload.s3.amazonaws.com/ASBMT/ ale2ac9a-36d2-4e23-945c-45118b667268/ UploadedImages/COVID-19_Interim_Patient_ Guidelines_3_9_20_V2.pdf

This document is intended as a guide for diagnosis and management of COVID-19 in adult and pediatric hematopoietic cell transplant (HCT) and cellular therapy patients. It does not cover specific infection prevention policies and procedures.

Walsh CM, Fishman DS, Lerner DG: NASPGHAN **Endoscopy and Procedures Committee.** Pediatric Endoscopy in the Era of Coronavirus Disease 2019: A North American Society for

Pediatric Gastroenterology, Hepatology, and Nutrition Position Paper, Journal of Pediatric Gastroenterology Nutrition. 2020;70(6):741-750. **PMCID: PMC7273958**

The North American Society for Pediatric Gastroenterology, Hepatology & Nutrition offers guidance on how to safely offer endoscopy services to children during the pandemic.

Wingard JR, Ahn KW, Dandoy C, Perales MA. Wood WA. Logan B. Riches M. Rizzo JD. COVID-19 and hematopoietic cell transplantation center-specific survival analysis: Can we adjust for the impact of the pandemic? Recommendations of the COVID-19 Task Force of the 2020 Center for International Blood and Marrow Transplantation Research Center Outcomes Forum. Transplantation and Cellular Therapy. 2021;27(7):533-539. PMCID: PMC8061634

This article reports on the recommendations, developed by The Center of International Blood and Marrow Transplantation Research (CIBMTR), for COVID-19 related adjustments for centers that perfrom hematopoietic cell transplantations.

Wu AJ. Rimner A. Shepherd AF. Gelblum DY, Shaverdian N, Yorke E, Simone CB 2nd, **Gomez DR**. Thoracic Radiation Therapy During Coronavirus Disease 2019: Provisional Guidelines from a Comprehensive Cancer Center within a Pandemic Epicenter. Advances in Radiation Oncology. 2020;5(4):603-607.

PMCID: PMC7169880

MSK's provisional guidelines for providing radiation treatment to patients with lung and other thoracic cancers during the COVID-19 pandemic.

Yahalom J, Dabaja BS, Ricardi U, Ng A, Mikhaeel NG, Vogelius IR, Illidge T, Qi S, Wirth A, Specht L, on behalf of the International Lymphoma Radiation Oncology Group (ILROG). ILROG emergency guidelines for radiation therapy of hematological malignancies during the COVID-19 pandemic. Blood. 2020;135(21):1829-1832. **PMCID: PMC7243146**

The International Lymphoma Radiation Oncology Group (ILROG) is a recognized international organization of radiation oncologists which produces guidelines for radiation therapy in blood cancers. In this article, ILROG presents guidelines for radiation therapy practice adjusted to the complexities caused by the COVID-19 pandemic.

Zaorsky NG, Yu JB, **McBride SM**, Dess RT, Jackson WC, Mahal BA, Chen R, Choudhury A, Henry A, Syndikus I, Mitin T, Tree A, Kishan AU, Spratt DE. Prostate cancer radiation therapy recommendations in response to COVID-19. Advances in Radiation Oncology. 2020;5(4):659-665. **PMCID: PMC7118610**

Recommendations from the National Comprehensive Cancer Network risk group for prostate cancer advise a reduction of resources for all stages of prostate cancer. Telemedicine, consultations, and return visits can be delayed one to six months until there are more resources and staff, and treatment can be delayed for low risk until safe, and for unfavorable or high-risk neoadjuvant hormone therapy for four to six months.

Abramson Cancer Center at the University of Pennsylvania, American Association for Cancer Research, American Brain Tumor Association, American Cancer Society Cancer Action Network Inc., American Liver Foundation, American Radium Society, American Society for Radiation Oncology, American Society of Hematology, ArmorUp for Life, Association for Clinical Oncology, Association of American Cancer Institutes, Ben & Catherine Ivy Foundation. Blue Hat Foundation. Boston University - Boston Medical Center Cancer Center, Breast Cancer Research Foundation, Cancer Care. Cancer Center at Brown University, Cancer Center at Illinois, Cancer Forum of the American Public Health Association, Cancer Support Community, Cardinal Bernardin Cancer Center Stritch School of Medicine Loyola University Chicago, Case Comprehensive Cancer Center at Case Western Reserve University, Chao Family Comprehensive Cancer Center at The University of California Irvine, Children's Cancer Cause, Cholangiocarcinoma Foundation, Chris Draft Family Foundation, City of Hope, Cleveland Clinic Taussig Cancer Institute, Cold Spring Harbor Laboratory Cancer Center, Colorectal Cancer Alliance, Columbia University Herbert Irving Comprehensive Cancer Center, Community Oncology Alliance, Cure Breast Cancer Foundation, Dan L. Duncan Comprehensive Cancer Center at Baylor College of Medicine. Dana-Farber Cancer Institute. Deadliest Cancers Coalition, Debbie's Dream Foundation. Duke Cancer Institute. ECAN Esophageal Cancer Action Network, ESMO, EVAN Foundation, FORCE: Facing Our Risk of Cancer Empowered, Fox Chase Cancer Center, Fred & Pamela Buffett Cancer Center at the University of Nebraska Medical Center, Fred

Hutchinson Cancer Research Center, Friends of Cancer Research. Global Liver Institute. Georgetown Lombardi Comprehensive Cancer Center, Georgia Cancer Center, Gl Cancers Alliance, GO2 Foundation for Lung Cancer, Head and Neck Cancer Alliance, Hope for Stomach Cancer, Huntsman Cancer Institute at The University of Utah, Imerman Angels, Indiana University Melvin and Bren Simon Comprehensive Cancer Center, International Association for the Study of Lung Cancer, International Waldenstrom's Macroglobulinemia Foundation, Jackson Laboratory, Laura and Isaac Perlmutter Cancer Center at NYU Langone Health, Lazarex Cancer Foundation. Leukemia & Lymphoma Society, Livestrong, Living Beyond Breast Cancer, Loma Linda University Cancer Center, Lung Cancer Action Network, Lung Cancer Research Foundation, LUNGevity, Masonic Cancer Center, University of Minnesota, Mays Cancer Center at UT Health San Antonio MD Anderson Cancer Center. Melanoma Research Foundation. Memorial **Sloan Kettering Cancer Center**. Men's Health Network, Mesothelioma Applied Research Foundation, METAvivor Research and Support. Moffitt Cancer Center, Multiple Myeloma Research Foundation, MUSC Hollings Cancer Center, National Brain Tumor Society, National Cancer Registrars Association, National Comprehensive Cancer Network, National Pancreas Foundation, Norris Cotton Cancer Center at Dartmouth, Oncology Nursing Society, Ovarian Cancer Research Alliance, Penn State Cancer Institute, Raymond Foundation, Robert H. Lurie Comprehensive Cancer Center of Northwestern University, Roswell Park Comprehensive Cancer Center, Rutgers Cancer Institute of New Jersey, Sanford Burnham Prebys Medical

Discovery Institute, Sarcoma Foundation of America, Shepherd Foundation, Sidney Kimmel Cancer Center at Thomas Jefferson University, Society for Immunotherapy of Cancer (SITC), Society of Surgical Oncology, St. Baldrick's Foundation, Stand Up To Cancer, Stanford Cancer Institute, Stephenson Cancer Center at The University of Oklahoma, Students Supporting Brain Tumor Research, Stupid Cancer Inc., Susan G. Komen, Sylvester Comprehensive Cancer Center at the University of Miami Miller School of Medicine. The Advocates for Collaborative Education. The Alliance of Dedicated Cancer Centers. The Mark Foundation for Cancer Research. The Ohio State University Comprehensive Cancer Center – James Cancer Hospital and Solove, Research Institute, The Salk Institute, The University of Kansas Cancer Center, Tigerlily Foundation, Triage Cancer, UC Davis Comprehensive Cancer Center, UC San Diego Moores Cancer Center, UCLA Health Jonsson Comprehensive Cancer Center, UCSF Helen Diller Family Comprehensive Cancer Center, UNC Lineberger Comprehensive Cancer Center, Unite for HER, University of Arizona Cancer Center, University of Chicago Medicine Comprehensive Cancer Center, University of Cincinnati Cancer Center, University of Iowa Holden Comprehensive Cancer Center, University of Michigan Rogel Cancer Center, University of New Mexico Comprehensive Cancer Center, University of Puerto Rico Comprehensive Cancer Center, University of Rochester Wilmot Cancer Institute, University of Vermont Cancer Center, UPMC Hillman Cancer Center, USC Norris Comprehensive Cancer Center, UT Southwestern Simmons Cancer Center. V Foundation for Cancer Research. VCU Medical Center, Winship Cancer Institute

of Emory University, Yale Cancer Center, ZERO – The End of Prostate Cancer. Letter to President Biden and Leaders of State Public Health Departments: Prioritizing COVID-19 vaccines for patients with cancer and survivors of cancer. American Association for Cancer Research, 2021.

This letter was sent to President Biden "...to underscore the urgency of prioritizing access to a COVID-19 vaccine for patients with active cancer and survivors of cancer" in February 2021.

Araujo-Filho JAB, Sawamura MVY, Costa AN, Cerri GG, Nomura CH. COVID-19 pneumonia: What is the role of imaging in diagnosis? Jornal Brasileiro de Pneumologia. 2020;46(2):e20200114. **PMCID: PMC7462700**

This letter states that CT scans should not be used to diagnose asymptomatic COVID-19 patients, but they can be considered in hospitalized or symptomatic cases of potential COVID-19 pneumonia. COVID-19 diagnostic tests should always be used to confirm a positive COVID-19 diagnosis.

Araujo-Filho JAB, Sawamura MVY, Teixeira FB, Apanavicius A, Costa AN. Temporal evolution of tomographic findings of pulmonary infection in COVID-19. Einstein (Sao Paulo). 2020;18:eCE5974. **PMCID: PMC7531897**

This letter to the editor describes using chest CT imaging for long- term prognosis and follow-up of COVID-19.

Bodei L, Bergsland E, de Herder WW, Ferone D, Hicks RJ, Hope TA, Kunikowska J, Pavel M, **Reidy-Lagunes D**, Siveke J, Strosberg J, Dittmer U, Herrmann K. Peptide receptor radionuclide therapy during the COVID-19 pandemic:

Are there any concerns? Journal of Nuclear Medicine. 2020;61(8):1094-1095. **PMCID: PMC7413236**

The authors discuss the risk factors for COVID-19 severity regarding peptide receptor radionuclide therapy (PRRT), and provide suggestions for monitoring the association of PRRT and COVID-19, as well as clinical recommendations.

Chen GH, Hellman S, Irie T, Downey RJ, Fischer GW. Regulating inspiratory pressure to individualise tidal volumes in a simulated two-patient, one-ventilator system. British Journal of Anaesthesia. 2020;125(4): e366-e368. PMCID: PMC7324329

This letter reports on finding a technical solution to ventilator shortages.

Chodera J, Lee AA, London N, von Delft F. Crowdsourcing drug discovery for pandemics. Nature Chemistry. 2020;12(7):581.

This letter to the editor describes the creation of Moonshot COVID, an international consortium of scientists being funded through charity grants and crowdfunding to quickly and easily develop antiviral drugs to treat COVID-19 disease.

Choudhury NJ, Riely GJ, Sabbatini PJ, Hellmann MD. Translating inspiration from COVID-19 vaccine trials to innovations in clinical cancer research. Cancer Cell. 2021;39(7):897-899. PMCID: PMC8103143

The authors of this letter suggest applying the lessons and experience of conducting COVID-19 vaccine clinical trials to clinical cancer trials. They emphasize increasing public trust in clinical research, increasing the under-

standing of the value of clinical trials (thus making the recruitment of volunteers speedier), simplifying clinical cancer trials design, increasing the transparency of clinical cancer trial protocols, and the efficient delivery of clinical trial results.

Da Ponte G, Ouakinin S, **Breitbart W**. Comments on the Letter: "Role of religious and spiritual aid in quarantine hospitalization due to SARS-COV-2" — What about existential needs of those who are without a religion? Journal of the Academy of Consultation-Liaison Psychiatry. 2021;62(6):669-670. **PMCID: PMC8592649**

In this letter to the editor, the authors comment on a recently published letter "The role of religious and spiritual aid in quarantine hospitalization due to SARS-CoV-2" and highlight that meaning-centered psychotherapy may help non-religious as well as religious patients.

Gampel B, **Troullioud Lucas AG**, Broglie L, Gartrell-Corrado RD, Lee MT, Levine J, Orjuela-Grimm M, Satwani P, **Glade-Bender J**, **Roberts SS**. COVID-19 disease in New York City pediatric hematology and oncology patients. Pediatric Blood & Cancer. 2020;67(9):e28420. **PMCID: PMC7361160**

This letter to the editor describes the experience of two pediatric oncology departments in NYC (MSK and NYP) with COVID-19, including demographics and clinical characteristics of patients tested, and the clinical characteristics and impacts of the patients who tested positive.

Hellman S, Chen GH, Irie T. Rapid clearing of aerosol in an intubation box by vacuum

filtration. British Journal of Anaesthesia. 2020; 125(3):e296-e299. **PMCID: PMC7313634**

This letter to the editor describes a tool developed by the authors to filter droplets and aerosols during aerosol-generating procedures.

Koch E, Villanueva F, **Marchetti MA**, Abarzúa Á, Cárdenas C, Castro JC, Dominguez F, Droppelmann K, Droppelmann N, Galindo H, León A, Madrid J, Molgó M, Mondaca S, Montero P, Uribe P, Villaseca MA, Vinés E, Navarrete-Dechent C. Reduction in the number of early melanomas diagnosed during the COVID-19 pandemic: A single-centre cohort study. Journal of the European Academy of Dermatology and Venereology. 2021;35(11):e735-e737.

PMCID: PMC8447396

This letter to the editor describes a retrospective study from January 2019 through March 2021 from Chile that showed a 31% decrease in melanoma diagnoses each month during the pandemic, compared to the control year. The authors describe how skin cancer screening is still a vital cancer prevention tool and that delays in diagnosis due to the pandemic lead to increased stage at diagnosis and increased mortality rates.

Koffman B, **Mato A**, Byrd JC, Danilov A, Hedrick B, Ujjani C, **Roeker L**, Stephens DM, Davids MS, Pagel JM, Shadman M. Management of CLL patients early in the COVID-19 pandemic: An international survey of CLL experts. American Journal of Hematology. 2020;95(8):E199-E203. **PMCID: PMC7267481**

This correspondence reports on the results of a survey of a cohort of chronic lymphocytic leukemia (CLL) experts who were asked "... questions about experts' base-line information and their recommendations on isolation,

testing and CLL management in patients with CLL and COVID-19".

Kung AL, **Mauguen A**, **Boulad F**. Important concerns over SARS-CoV-2 infection in children with cancer - Reply. JAMA Oncology. 2020;6(12):1980.

In this reply, authors addressed concerns raised in a commentary regarding their recent Research Letter. One concern was related to the different types of pediatric cancer being pathophysiologically different, and another was related to observed sex differences.

LaPlant Q, Thor M, Shaverdian N, Shin JY, Gilbo P, Luo J, Gomez DR, Gelblum DY. Association of prior radiation dose to the cardiopulmonary system with COVID-19 outcomes in patients with cancer. Radiotherapy and Oncology. 2021;161:115-117. PMCID: PMC8180359

This letter to the editor describes research conducted at Memorial Sloan Kettering Cancer Center aimed at establishing the possible impact of radiation therapy (RT) to cardiopulmonary structures on the outcomes of COVID-19 infection in cancer patients who underwent RT prior to contracting COVID-19. While some impact was found to be related to the risk of hospitalization due to COVID-19, the study did not find the increased risk of severe infection or death. The researchers conclude that, while cancer patients with a history of thoracic RT should be closely monitored, RT should continue to be used when treating cancer patients during the COVID-19 pandemic.

Linos E, Halley MC, Sarkar U, Mangurian C, Sabry H, Olazo K, Mathews KS, **Diamond L**, Goyal MK, Linos E, Jagsi R. Anxiety levels among physician mothers during the COVID-19 pandemic. The American Psychiatric Association. 2021;178(2):203-204.

After surveying the "Physician Moms Group" on Facebook, the authors note in this letter to the editor that anxiety among physician mothers is significantly higher during the pandemic than during normal times.

Mahadev S, Aroniadis OS, Barraza L, Agarunov E, Goodman AJ, Benias PC, Buscaglia JM, Gross SA, Kasmin FE, Cohen JJ, Carr-Locke DL, Greenwald DA, **Mendelsohn RB**, Sethi A, Gonda TA; NYSGE research committee. Impact of the COVID-19 pandemic on endoscopy practice: Results of a cross-sectional survey from the New York metropolitan area. Gastrointestinal Endoscopy. 2020;92(3):788-789. **PMCID: PMC7182511**

Endoscopists from hospitals across the New York metropolitan area report on the results of a survey of 69 endoscopists, administered with the support of the New York Society of Gastroenterological Endoscopy, that collected "...information regarding demographics, case volume, personal protective equipment (PPE) use, and endoscopist exposure to COVID-19."

Nawar T, Morjaria S, Kaltsas A, Patel D, Perez-Johnston R, Daniyan AF, Mailankody S, Parameswaran R. Granulocyte-colony stimulating factor in COVID-19: Is it stimulating more than just the bone marrow? American Journal of Hematology. 2020;95(8):E210-E213.

PMCID: PMC7276914

In this letter to the editor, the authors express concerns related to administering a

Granulocyte-colony stimulating factor (GCSF) which is routinely given to cancer patients for prevention of neutropenia, during the COVID-19 pandemic. The concerns arose from 3 cases of administering GCSF for neutropenia to cancer patients who also had COVID-19. In all probability, this was the first report describing the course of COVID-19 infection in selected cancer patients who received GCSF for neutropenic fever in the United States.

Pillarsetty N, Carter L, Lewis JS, Reiner T.

Reply: Potential use of radiolabeled antibodies for imaging and treatment of COVID-19. Journal of Nuclear Medicine. 2021;62(7):1020-1021. **PMCID: PMC8882887**

This article is an author's response to the comment on their Brief Communication "Oncology-Inspired Treatment Options for COVID-19" published in the Journal of Nuclear Medicine in July of 2020. The authors addressed the issues raised in the comment on their article.

Roeker LE, Knorr DA, Pessin MS, Ramanathan LV, Thompson MC, Leslie LA, Zelenetz AD, Mato AR. Anti-SARS-CoV-2 antibody response in patients with chronic lymphocytic leukemia. Leukemia. 2020;34(11):3047-3049. PMCID: PMC7450257

This letter to the editor describes decreased antibody and immune response in immunocompromised patients with CLL, with implications in vaccine success rates in these patients.

Rosa WE, Anderson E, **Applebaum AJ**, Ferrell BR, Kestenbaum A, **Nelson JE**. Coronavirus Disease 2019 as an opportunity to move toward transdisciplinary palliative care. Journal

of Palliative Medicine. 2020;23(10):1290-1291. **PMCID: PMC8024354**

This letter to the editor discusses how COVID-19 gives an opportunity to push all healthcare workers to support palliative care and deliver palliative care in a unified framework.

Schmidt AH, Buk D, Bernas SN, Mengling T, Neujahr E, van den Brink MRM. A DKMS (German Bone Marrow Donor Center) view on cryopreservation of unrelated donor stem cell products during the COVID-19 pandemic. American Journal of Hematology. 2021;96(3):E91-E92. PMCID: PMC7898391

In this letter to the editor, the authors discuss cryopreservation of stem cell products from unrelated donors which has been used to overcome the challenges associated with the COVID-19 pandemic, but which also presents some challenges of its own, as often these products end up at risk of not being used for various reasons explained by the authors.

Schultz L, Link MP, Rheingold S, Hawkins DS, Dome JS, Wickiser J, **Kung AL**, Henderson TO, Aftandilian C. Summary of COVID-19 clinical practice adjustments across select institutions. Pediatric Blood & Cancer. 2020;67(11):e28411. **PMCID: PMC7404360**

This letter to the editor details physician recommendations from six academic pediatric hematology/oncology programs for caring for immunocompromised pediatric patients who are at higher risk of infection.

Seban RD, Champion L, **Yeh R**, Schwartz LH, Dercle L. Assessing immune response upon systemic RNA vaccination on [18F]-FDG PET/CT for COVID-19 vaccine and then for

immuno-oncology? European Journal of Nuclear Medicine and Molecular Imaging. 2021;48(11):3351-3352. **PMCID: PMC8221274**

In this letter to the editor, the authors report on the potential theranostic value of [18F]-FDG PET in the era of RNA vaccination.

Stuver R, Shah GL, Roeker LE, Mato
AR, Batlevi CL, Chung DJ, Doddi S, Falchi L,
Gyurkocza B, Hamilton A, Lin YH, Jakubowski
AA, Joffe E, Landau HL, Lin RJ, Mailankody
S, Palomba ML, Park JH, Perales MA, Ponce
DM, Ramanathan LV, Salles GA, Scordo
M, Seo SK, Shah UA, Stein EM, Straus
D, Usmani SZ, Young JW, Zelenetz AD, Noy
A, Vardhana SA. Activity of AZD7442
(tixagevimab-cilgavimab) against Omicron
SARS-CoV-2 in patients with hematologic
malignancies. Cancer Cell. 2022;40(6):590591. PMCID: PMC9108069

This letter reports on a randomized clinical trial involving patients with hematological malignancies, a population especially vulnerable to COVID-19. The experimental group was treated with AZD7442, the combined monoclonal product AZD7442/Evusheld (tixagevimab-cilgavimab) that has been granted emergency use authorization (EUA). The drug was developed and studied before emergence of the Omicron variant. The trial showed reduced activity of the substance against the Omicron strain. The trial results, however, support the 300 mg dose of AZD7442 pre-exposure prophylaxis.

Trinidad J, Gabel CK, Han JJ, Bonomo L, Cartron A, Chand S, Coburn W, Daveluy S, Davis M, DeNiro KL, Guggina LM, Hennessy K, Hoffman M, Katz K, Keller JJ, Kim SJ, Konda S, Lake E,

Lincoln FN, Lo JA, **Markova A**, Marvin EK, Micheletti RG, Newman S, Nutan FNU, Nguyen CV, Pahalyants V, Patel J, Rahnama-Moghadam S, Rambhatla PV, Riegert M, **Reingold RE**, Robinson DB, Rrapi R, Sartori-Valinotti JC, Seminario-Vidal L, Sharif-Sidi Z, Smogorzewski J, Spaccarelli N, Stewart JR, Tuttle SD, Ulrich MN, Wanat KA, Di Xia F, Kaffenberger B, Kroshinsky D. Telemedicine and dermatology hospital consultations during the COVID-19 pandemic: A multi-centre observational study on resource utilization and conversion to in-person consultations during the COVID-19 pandemic. Journal of the European Academy of Dermatology and Venereology. 2022;36(5):e323-e325.

PMID: 34932237

This retrospective multi-center study, conducted from March to June 2020, assessed the utility of tele-dermatology in inpatient consultations.

Turco F, Armstrong A, Attard G, Beer TM, Beltran H, Bjartell A, Bossi A, Briganti A, Bristow RG, Bulbul M, Caffo O, Chi KN, Clarke C, Clarke N, Davis ID, de Bono J, Duran I, Eeles R, Efstathiou E. Efstathiou J. Evans CP. Fanti S. Feng FY, Fizazi K, Frydenberg M, George D, Gleave M. Halabi S. Heinrich D. Higano C. Hofman MS, Hussain M, James N, Jones R, Kanesvaran R, Khauli RB, Klotz L, Leibowitz R, Logothetis C, Maluf F, Millman R, Morgans AK, Morris MJ, Mottet N, Mrabti H, Murphy DG, Murthy V, Oh WK, Ekeke Onyeanunam N, Ost P, O'Sullivan JM, Padhani AR, Parker C, Poon DMC, Pritchard CC, Rabah DM, Rathkopf D, Reiter RE, Rubin M, Ryan CJ, Saad F, Pablo Sade J, Sartor O, Scher HI, Shore N, Skoneczna I, Small E, Smith M, Soule H, Spratt D, Sternberg CN, Suzuki H, Sweeney C, Sydes M, Taplin ME, Tilki D, Tombal

B, Türkeri L, Uemura H, Uemura H, van Oort I, Yamoah K, Ye D, Zapatero A, Gillessen S, Omlin A. What experts think about prostate cancer management during the COVID-19 pandemic: Report from the Advanced Prostate Cancer Consensus Conference 2021. European Urology. 2022I;82(1):6-11. PMCID: PMC8849852

In this correspondence, the authors report on experts' advanced prostate cancer management recommendations during the COVID-19 pandemic after attending the Advanced Prostate Cancer Consensus Conference 2021.

(These preprints have not yet been peer reviewed.)

Anderson MR, **Bach PB**, Baldwin MR. Hospital length of stay for severe COVID-19: Implications for Remdesivir's value. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.08.10.20171637.

The retrospective study looked at the impact of the drug Remdesivir (that received emergency use authorization for treatment of severe COVID-19) on the length of stay of inpatients with severe COVID-19 infection and found that, contrary to the expectations, the use of Remdesivir did not reduce the length of stay in the studied population.

Blackler L, Scharf AE, Masciale JN, Lynch KA, Riches JC, Matsoukas K, Colletti M, Wall L, Chawla S, Coyle N, Alici Y, Guest R, Voigt LP. Staff experiences at a New York City medical center during the spring peak of the Covid-19 pandemic: A qualitative study. Research Square. 2021. Available from: https://dx.doi.org/10.21203/rs.3.rs-268807/v1. PMCID: PMC8010741

In this paper, the authors report the results of a survey sent to Memorial Sloan Kettering workers (clinical and non-clinical) in June 2020 during a COVID-19 peak. In addition, they outline suggestions in the case of a new surge or in the event of another public health crisis.

Bolton KL, Koh Y, Foote MB, Im H, Jee J, Sun CH, Safonov A, Ptashkin R, Moon JH, Lee JY, Jung J, Kang CK, Song KH, Choe PG, Park WB, Kim HB, Oh MD, Song H, Kim S, Patel M, Derkach A, Gedvilaite E, Tkachuk KA, Braunstein LZ, Gao T, Papaemmanuil E, Babady E, Pessin MS, Kamboj M, Diaz LA Jr, Ladanyi M,

Rauth MJ, Natarajan P, Machiela MJ, Awadalla P, Joseph V, Offit K, Norton L, Berger MF, Levine RL, Kim SE, Kim NJ, Zehir A. Clonal hematopoiesis is associated with risk of severe COVID-19. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.11.25.2023316 3. PMCID: PMC7709186

A study of 515 patients from Memorial Sloan Kettering (MSK) and the Korean Clonal Hematopoiesis (KoCH) consortia found that patients with clonal hematopoiesis were more likely to have severe COVID infections, along with an increased risk of other infections.

Bryan AD, Tatem K, Diuguid-Gerber J, Cooke C, **Romanoff A**, Choudhury N, Scanlon M, Kishore P, Sydney E, Masci J, Bakshi P, Pemmasani S, Davis NJ, Maru D. Seroepidemiology among employees of New York City Health and Hospitals during the first wave of the SARS-CoV-2 epidemic. medRxiv. 2021. Available from: https://dx.doi.org/10.1101/2021.04.12.212 55344.

Researchers determined the prevalence of SARS-CoV-2 antibodies among 727 New York City Health + Hospitals healthcare workers between April 30 and June 30, 2020. Black workers, workers with household COVID exposure, those living in Queens, Brooklyn, and the Bronx, and those in non-clinical patient-facing roles were more likely to have positive antibodies.

Castillo P, **Boulad F**, Bhatia M, Arnold S, Lipton J, Wang W, Farrar J, Black V, Bennett C, Shimamura A, Kurre P, Vlachos A. Decreased severity and incidence of SARS-CoV-2 infection in younger patients with bone marrow failure: Description of 4 clinical cases. Authorea. 2020. Available from: https://dx.doi.org/10.22541/au.160689244.41003643/v1.

A survey of 29 institutions identified only four pediatric patients with bone marrow failure (BMF) who tested positive for COVID, or 0.3% of the total surveyed BMF patient population. All four patients had mild disease.

Chowell G, **Chowell D**, Roosa K, Dhillon R, Srikrishna D. Sustainable social distancing through facemask use and testing during the COVID-19 pandemic. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.04.01.2 0049981.

This preprint article describes a model in which the pandemic may be controlled through a combination of robust testing, treatment, self-isolation, along with social distancing measures and wearing face masks.

The COVID Moonshot Consortium. COVID Moonshot: Open science discovery of SARS-CoV-2 main protease inhibitors by combining crowdsourcing, high-throughput experiments, computational simulations, and machine learning. bioRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.10.29.339317.

A team of international scientists is working to develop antiviral drugs for COVID-19. They report on their methodologies for determining the structures of compounds in this preprint.

Desai N, Neyaz A, Szabolcs A, Shih AR, Chen JH, Thapar V, Nieman LT, **Solovyov A**, Mehta A, Lieb DJ, Kulkarni AS, Jaicks C, Pinto CJ, Juric D, Chebib I, Colvin RB, Kim AY, Monroe R, Warren SE, Danaher P, Reeves JW, Gong J, Rueckert EH, **Greenbaum BD**, Hacohen N, Lagana SM, Rivera MN, Sholl, LM, Stone JR, Ting DT, Deshpande

V. Temporal and spatial heterogeneity of host response to SARS-CoV-2 pulmonary infection. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.07.30.20165241.

This preprint contributes to the knowledge of the pathology of pulmonary disease associated with COVID-19 infection.

Devkota K, Schapira M, Perveen S, Khalili Yazdi A, Li F, Chau I, Ghiabi P, Hajian T, Loppnau P, Bolotokova A, Satchell KJF, **Wang K**, **Li D**, Liu J, Smil D, **Luo M**, Jin J, Fish PV, Brown PJ, Vedadi M. Probing the SAM binding site of SARS-CoV-2 nsp14 in vitro using SAM competitive inhibitors guides developing selective bi-substrate inhibitors. bioRxiv. 2021. Available from: https://dx.doi.org/10.1101/2021.02.19.424337. **PMCID: PMC7899450**

In this preprint, the authors present their work on non-structural protein (nsp) 14 to help with developing anti-viral therapeutics against COVID-19.

Dilawari A, Rentscher K, Zhai W, **Ahles TA**, Ahn J, Bethea T, Carroll JE, Cohen H, Graham D, Jim H, McDonald BC, Nakamura Z, Patel S, Root J, Small B, Saykin A, Tometich D, VanDyk K, Mandelblatt J. Medical care disruptions during the first six-months of the COVID19 pandemic: The experience of older breast cancer survivors. Research Square. 2021. Available from: https://dx.doi.org/10.21203/rs.3.rs-416077/v1.

PMCID: PMC8057243

This preprint reports on the results of a survey, administered to older breast cancer survivors in 5 U.S. regions, on medical care disruptions (such as interruptions in the ability to see doctors, receive treatment or supportive therapies, or fill prescriptions)

during the COVID-19 pandemic and analyzes the patterns discerned from the responses to the survey.

Elmunzer BJ, Spitzer RL, Foster LD, Merchant AA, Howard EF, Patel VA, West MK, Qayad E, Nustas R, Zakaria A, Piper MS, Taylor JR, Jaza L, Forbes N, Chau M, Lara LF, Papachristou GI, Volk ML, Hilson LG, Zhou S, Kushnir VM, Lenyo AM, McLeod CG, Amin S, Kuftinec GN, Yadav D, Fox C, Kolb JM, Pawa S, Pawa R, Canakis A, Huang C, Jamil LH, Aneese AM, Glamour BK, Smith ZL, Hanley KA, Wood J, Patel HK, Shah JN, Agarunov E, Sethi A, Evan L. Fogel EL, McNulty G, Haseeb A, Trieu JA, Dixon RE, Yang JY, Mendelsohn RB, Calo D, Aroniadis OC, LaComb JF, Scheiman JM, Sauer BG, Dang DT, Piraka CR, Shah ED, Pohl H, Tierney WM, Mitchell S, Condon A, Lenhart A, Dua KS, Kanagala VS, Kamal A, Singh VK, Pinto-Sanchez MI, Hutchinson JM, Kwon RS, Korsnes SJ, Singh H, Solati Z, Deshpande AR, Rockey DC, Alford TB, Durkalski V, the North American Alliance for the Study of Digestive Manifestations of COVID-19. Digestive manifestations in patients hospitalized with COVID-19. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/202 0.07.07.20143024.

This preprint compiles evidence on the presence and severity of gastrointestinal problems in patients with COVID-19.

Emard N, Lynch KA, Liou KT, Atkinson T, Green AK, Daly B, Trevino K, Mao JJ. Virtual mind-body programming for patients with cancer during COVID-19: A qualitative study. JMIR Preprints. 2021. Available from: https://dx.doi.org/10.2196/preprints.27384.

This preprint reports on a study of 30

cancer patients who participated in a virtual mind-body program during the COVID-19 pandemic to determine the program's impact on the patients' psychosocial well-being. It demonstrated the program's potential for addressing behavioral, psychological, and social challenges faced by cancer patients.

Fischer JC, Schmidt AG, Boelke E, Uhrberg M, Keitel V, Feldt T, Jensen B, Häussinger D, Adams O, Schneider EM, Balz V, Enczmann J, Rox J, Hermsen D, Schulze-Bosse K, Kindgen-Milles D, Knoefel WT, van Griensven M, Haussmann J, Tamaskovics B, Plettenberg C, Scheckenbach K, Corradini S, **Pedoto A**, Maas K, Schmidt L, Grebe O, Esposito I, Erhardt A, Peiper M. Buhren BA, Calles C, Stöhr A, Lichtenberg A, Freise N, Lutterbeck M, Rezazadeh A, Budach W, Matuschek C. Association of HLA and mutated CCR5 with the clinical course of the disease in subjects with mild/moderate disease following COVID-19 infection. Research Square. 2021. Available from: https://dx.doi. org/10.21203/rs.3.rs-600023/v1.

In this observatory study, the authors studied if specific HLA alleles in 157 adult COVID-19 patients could be associated with the severity of the disease.

Flores M, Dayan I, Roth H, Zhong A, Harouni A, Gentili A, Abidin A, Liu A, Costa A, Wood B, Tsai CS, Wang CH, Hsu CN, Lee CK, Ruan C, Xu D, Wu D, Huang E, Kitamura F, Lacey G, de Antônio Corradi GC, **Shin HH**, Obinata H, Ren H, Crane J, Tetreault J, Guan J, Garrett J, Park JG, Dreyer K, **Juluru K**, Kersten K, Rockenbach MABC, Linguraru M, Haider M, AbdelMaseeh M, Rieke N, Damasceno P, Cruz e Silva PM, Wang P, Xu S, Kawano S, Sriswasdi S, Park SY, Grist T,

Buch V, Jantarabenjakul W, Wang W, Tak WY, Li X, Lin X, Kwon F, Gilbert F, Kaggie J, Li Q, Quraini A, Feng A, Priest A, Turkbey B, Glicksberg B, Bizzo B, Kim BS, Tor-Diez C, Lee CC, Hsu CJ, Lin C, Lai CL, Hess C, Compas C, Bhatia D, Oermann E, Leibovitz E, Sasaki H, Mori H, Yang I, Sohn JH, Keshava Murthy KN, Fu LC, de Mendonca MRF, Fralick M, Kang MK, Adil M, Gangai N, Vateekul P, Elnajjar P, Hickman S, Majumdar S, McLeod S, Reed S, Graf S, Harmon S, Kodama T, Puthanakit T, Mazzulli T, de Lima Lavor V, Rakvongthai Y, Lee YR, Wen Y. Federated Learning used for predicting outcomes in SARS-COV-2 patients. Research Square. 2021. Available from: https://dx.doi.org/10.21203/ rs.3.rs-126892/v1. PMCID: PMC7805458

Twenty institutions collaborated to train an artificial intelligence model to predict COVID patient oxygen requirements.

Frank MO, Blachere NE, Parveen S, Hacisuleyman E, Fak J, Luna JM, Michailidis E, Wright S, Stark P, Campbell A, Foo A, Sakmar TP, Huffman V, Bergh M, Goldfarb A, Mansisidor A, Patriotis AL, Palmquist KH, Poulton N, Leicher R, Vargas CDM, Duba I, Hurley A, Colagreco J, Pagane N, Orange DE, Mora K, Rakeman JL, Fowler RC, Fernandes H, **Lamendola-Essel MF**, Didkovsky N, Silvera L, Masci J, Allen M, Rice CM, Darnell RB. DRUL for school: Opening Pre-K with safe, simple, sensitive saliva testing for SARS-CoV-2. medRxiv. 2021. Available from: https://dx.doi.org/10.1101/2021.04.03.21254873.

The authors developed a saliva test for SARS CoV-2 using a self-collection kit. Its use aided the safe reopening of a childcare center.

Freise NF, Kivel M, Grebe O, Meyer C, Wafaisade B, Peiper M, Zeus T, Schmidt J, Neuwahl J,

Jazmati D, Luedde T, Bölke E, Feldt T, Jensen BEO, Bode J, Keitel V, Haussmann J, Tamaskovics B, Budach W, Fischer JC, Knoefel WT, Schneider M, Gerber PA, **Pedoto A**, Häussinger D, Griensven M, Rezazadeh A, Flaig Y, Kirchner J, Antoch G, Schelzig H, Matuschek C. Acute cardiac side effects after COVID-19 mRNA vaccination, a case series. Research Square. 2021. Available from: https://dx.doi.org/10.21203/rs.3.rs-1157175/v1.

This retrospective study looked at eight patients who came to the hospital with cardiac symptoms following the first or second COVID vaccination.

Gartrell-Corrado RD, Gampel B, **Troullioud Lucas AG**, Broglie L, Lee MT, Levine J, Orjuela-Grimm M, Satwani P, **Glade-Bender J**, **Roberts SS**. COVID-19 in New York City pediatric hematology and oncology patients. Lancet. 2020. Available from: https://dx.doi.org/10.2139/ssrn.3582825.

This paper reports on the effect of COVID-19 disease on pediatric hematology, oncology and hematopoietic stem cell transplant (HCT) patients. The study included 19 out of 174 patients that tested positive for COVID-19, the majority of which were found to have mild disease that did not require inpatient care.

di Gioacchino A, Ŝulc P, Komarova AV, **Greenbaum BD**, Monasson R, Cocco S. The heterogeneous landscape and early evolution of pathogen-associated CpG and UpA dinucleotides in SARS-CoV-2. bioRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.05.06.074039. **PMCID: PMC7263554**

This preprint looks at the genetics of the virus that causes COVID-19, specifically at the rate and drivers of its mutation.

Gras-Valentí P, Mora-Muriel JG, Chico-Sánchez P, Algado-Sellés N, Soler-Molina VM, Hernández-Maldonado M, **Sánchez-Vela P**, et al. Effectivity of a programme for the control & prevention of COVID-19 healthcare-associated infections in a Spanish academic hospital. Bull World Health Organ. 2020. Available from: https://dx.doi.org/10.2471/BLT.20.263384.

This study of healthcare worker exposure to COVID recommends the continuous wearing of surgical masks in both patient and staff areas of the hospital.

*Has since been removed from the preprint server.

Hoff NP, Freise N, Schmidt AG, Firouzi-Memarpuri P, JReifenberger J, Lüdde T, Boelke E, Meller S, Homey B, Torsten Feldt T, Ole Jensen BE, Keitel V, Schmidt L, Maas K, Haussmann J, Tamaskovics B, Budach W, Fischer JC, Buhren BA, Knoefel WT, Schneider M, Gerber PA, **Pedotoa A**, Häussinger D, Grebe O, van Griensven M, Braun SA, Salzmann S, Rezazadeh A, Matuschek C. Delayed skin reaction after mRNA-1273 vaccine against SARS-CoV-2. Research Square. 2021. Available from: https://dx.doi.org/10.21203/rs.3.rs-507024/v1.

This preprint reports on an analysis of patients with 'COVID arm,' a delayed skin reaction that has occurred in patients who received the mRNA-based COVID-19 vaccines. The authors concluded that although most cases resolve spontaneously, "...topical glucocorticosteroids and oral anti histamines are effective in resolving the skin lesions and

controlling symptoms."

Hultcrantz M, Richter J, Rosenbaum C, Patel D, Smith E, Korde N, Lu S, Mailankody S, Shah U, Lesokhin A, Hassoun H, Tan C, Maura F, Derkacs A, Diamond B, Rossi A, Pearse RN, Madduri D, Chari A, Kaminetsky D, Braunstein M, Gordillo C, Davies F, Jagannath S, Niesvizky R, Lentzsch S, Morgan G, Landgren O. COVID-19 infections and outcomes in patients with multiple myeloma in New York City: A cohort study from five academic centers. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.06.09.20126516. PMCID: PMC7302217.

Researchers studied a cohort of patients with multiple myeloma and related diseases at five large New York City institutions. Risk factors for more severe COVID symptoms tracked with those documented in the general population. The authors make recommendations for cancer treatment and COVID risk reduction during the pandemic.

Ikemura K, Goldstein DY, Szymanski J, Bellin E, Stahl L, **Yagi Y**, Saada M, Simone K, Gil MR. Using automated-machine learning to predict COVID-19 patient survival: Identify influential biomarkers. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.10.12.20211086.

This preprint article describes a novel use of automated machine learning to predict patient survival and mortality from COVID-19. The authors were also able to identify the most important biomarkers correlated with mortality.

Jee J, Stonestrom AJ, Devlin S, Nguyentran T, Wills B, Narendra V, Foote MB, Lumish M, Vardhana S, Pastores SM, Korde N, Patel D, Horwitz S, Scordo M, Daniyan A. Onco-

logic immunomodulatory agents in patients with cancer and COVID-19. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/202 0.08.11.20145458.

This preprint provides a retrospective investigation of the effects of oncologic immunomodulatory agents on the 820 cancer patients diagnosed with SARS-CoV-2 at Memorial Sloan Kettering Cancer Center up to June 2, 2020.

Jeon H, You SC, Kang SY, Seo SI, Warner JL, **Belenkaya R**, Park RW. Characterizing the anticancer treatment trajectory and pattern in patients receiving chemotherapy for cancer using harmonized observational databases: Retrospective study. JMIR Preprints. 2020. Available from: 10.2196/preprints.25035.

The authors present a technique to generate chemotherapy episodes to make data more discoverable so researchers can compare treatments for patients with cancer.

Johnson W, Kalvin H, Panageas K, Nicodemus J, Cathcart E, Lin YH, Hosszu K, Lee C, Hamlin P, Horwitz S, Intlekofer A, Joffe E, Kumar A, Batlevi C, Matasar M, Moskowitz A, Noy A, Palomba M, Salles G, Straus D, von Keudell G, Zelenetz A, Boelens JJ, Babady NE, Maslak P, Wolchok JD, Vardhana S. A phase II study of N-acetylcysteine in cancer patients with severe COVID-19: Clinical outcomes and biological correlates. Research Square. 2022. Available from: https://dx.doi.org/10.21203/rs.3.rs-1836295/v1.

A preprint of a two-arm, single-institution phase II study of N-acetylcysteine in 42 patients with severe COVID-19 admitted

to Memorial Sloan Kettering Cancer Center between May 2020 and April 2021.

Kurlander L, Antal Z, DeRosa A, Diotallevi D, Pottenger E, Wilson N, Corcoran S, Boulad F, Novetsky Friedman D. COVID-19 in pediatric survivors of childhood cancer and hematopoietic cell transplantation from a single-center in New York City. Authorea. 2020. Available from: https://dx.doi.org/10.22541/au.160396932.21022667/v1.

In this brief report, the authors did a retrospective study to determine the impact of COVID-19 infections on 321 childhood cancer survivors seen at Memorial Sloan Kettering between May 5 and September 10, 2020. Based on preliminary results, they report that pediatric survivors don't seem to be at high risk for COVID-19 complications.

Lambert B, Stopard IJ, **Momeni-Boroujeni A**, Mendoza R, Zuretti A. Using patient biomarker time series to determine mortality risk in hospitalized COVID-19 patients: A comparative analysis across two New York hospitals. medRxiv. 2021. Available from: https://dx.doi.org/10.1101/2021.11.12.21266248.

This preprint describes a study of patients in two hospitals in NYC: SUNY Downstate Health Sciences University and Maimonides Medical Center. The researchers undertook quantifying the mortality risk associated not only with static data (e.g. demographics and patient history) but also with dynamic factors, such as changes in biomarkers, throughout hospitalization.

Lee CY, Shah MK, Hoyos D, Solovyov A, Douglas M, Taur Y, Maslak PG, Esther Babady N, Greenbaum B, Kamboj M, Vard-

hana SA. Prolonged SARS-CoV-2 infection in patients with lymphoid malignancies. medRxiv. 2021. Available from: https://dx.doi. org/10.1101/2021.08.25.21262417.

A study of 382 patients with lymphomas and COVID-19 diagnoses found that 13.9% of the surviving 368 patients still showed persistent COVID symptoms 30 days after testing positive.

Li F, Han M, Dai P, Xu W, He J, Tao X, Wu Y, Tong X, Xia X, Guo W, Zhou Y, Li Y, Zhu Y, Zhang X, Liu Z, Aji R, Cai X, Li Y, Qu D, **Chen Y**, Jiang S, Wang Q, Ji H, Xie Y, Sun Y, Lu L, Gao D. Distinct mechanisms for TMPRSS2 expression explain organ-specific inhibition of SARS-CoV-2 infection by enzalutamide. *bioRxiv.* 2020. Available from: https://dx.doi.org/10.1101/2020.09.11.293035.

The authors assess whether the prostate cancer drug enzalutamide could be used to treat COVID-19 patients. Use in a mouse model found inconclusive results.

Matos LL, Forster CHQ, Marta GN, Castro G Jr, Ridge JA, Hirata D, Miranda-Filho A, Hosni A, Sanabria A, Gregoire V, **Patel SG**, Fagan JJ, D'Cruz AK, Licitra L, Mehanna H, Hao SP, Psyrri A, Porceddu S, Galloway TJ, Golusinski W, **Lee NY**, Shiguemori EH, Matieli JE, Shiguemori APAC, Diamantino LR, Schiaveto LF, Leão L, Castro AF, Carvalho AL, Kowalski LP. The hidden curve behind COVID-19 outbreak: The impact of delay in treatment initiation in cancer patients and how to mitigate the additional risk of dying - The head and neck cancer model. Research Square. 2020. Available from: https://dx.doi.org/10.21203/rs.3.rs-119756/v1.

The authors used a model of head and neck squamous cell carcinoma progression to

estimate the increased mortality burden of the pandemic on cancer patients.

McBride SM, Bundick K, Hubbeling H, Freret M, Modlin LA, Kamboj M, Cahlon O, Gomez DA. Results and impact of intensive SARS-CoV-2 testing in a high volume, outpatient

CoV-2 testing in a high volume, outpatient radiation oncology clinic in a pandemic hotspot. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.08.11.20172551.

The study reported on the efforts by the Memorial Sloan Kettering Cancer Center for reducing interruptions in radiation therapy during the COVID-19 pandemic. The Department of Radiation Oncology implemented PCR testing of outpatients coming for treatment along with antibody testing later into the pandemic. These departmental efforts, combined with following the statewide pandemic fighting policies, helped prevent interruptions in radiotherapy treatment that could have jeopardized the treatment's efficacy during the pandemic.

Montano M, Victor AR, Griffin DK, Duong T, Bolduc N, Farmer A, **Garg V**, **Hadjantonakis AK**, Coates A, Barnes FL, Zouves CG, Greene WC, Viotti M. SARS-CoV-2 can infect human embryos. bioRxiv. 2022. Available from: https://dx.doi.org/10.1101/2021.01.21.427501.

In this preprint paper, the authors assess if human embryos could be susceptible to COVID-19 infection.

*Previous version of preprint was posted on Synapse COVID-19 list under the title "Human pre-implantation embryos are permissive to SARS-CoV-2 entry."

Morjaria S, Zhang AW, Kaltsas A, Parameswaran R, Patel D, Zhou W, Predmore J, Perez-John-

ston R, Jee J, Perales MA, Daniyan AF, Taur Y, Mailankody S. The effect of neutropenia and filgrastim (G-CSF) in cancer patients with COVID-19 infection. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.08.13.2017 4565. PMCID: PMC7430626

The study looked at hospitalized cancer patients with neutropenia (a condition that commonly affects cancer patients and is treated with recombinant human granulocyte colony-stimulating factor, G-CSF, filgrastim) who also had COVID-19 infection. The retrospective study found that neutropenia did not affect the course of COVID-19 infection in such patients, but CSF administration did. The authors recommended exercising caution and weighing risks vs benefits of SCF treatment of neutropenic patients with COVID-19 infection.

Mukherjee D, **Kumar R**, Ray U. Drug repurposing commonly against dengue virus capsid and SARS-CoV-2 nucleocapsid: An in silico approach. ChemRxiv. 2020. Available from: https://dx.doi.org/10.26434/chemrxiv.12611861.v2.

This preprint identifies five drugs approved for other diseases that bind to both COVID-19 and Dengue virus.

Müller C, Obermann W, Karl N, **Wendel HG**, Taroncher-Oldenburg G, Pleschka S, Hartmann RK, Grünweller A, Ziebuhr J. The rocaglate CR-31-B (-) inhibits SARS-CoV-2 replication at non-cytotoxic, low nanomolar concentrations in vitro and ex vivo. bioRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.11.24.389627.

Researchers found that a synthetic rocaglate molecule had antiviral effects against

SARS-CoV-2 in human bronchial cells. Navlakha S, **Morjaria S**, **Perez-Johnston R**, Zhang A, **Taur Y**. Projecting COVID-19 disease severity in cancer patients using purposefully-designed machine learning. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/202 0.08.23.20179838.

This preprint describes the creation and use of an artificial intelligence tool for predicting COVID-19 severity in cancer patients at Memorial Sloan Kettering Cancer Center.

Oh JH, Tannenbaum A, **Deasy JO**. Identification of biological correlates associated with respiratory failure in COVID-19. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.09.29.20204289.

This preprint re-analyzed data, originally collected for a genome-wide association study (GWAS) of Italian and Spanish participants by an international consortium group, using gene ontology analysis and protein-protein interaction analysis to determine which biological processes were most implicated in respiratory failure in COVID-19 patients.

Olshen AB, Garcia A, Kapphahn KI, Weng Y, Wesson PD, Rutherford GW, **Gonen M**, Desai M. COVIDNearTerm: A simple method to forecast COVID-19 hospitalizations. medRxiv. 2021. Available from: https://dx.doi.org/10.1101/2021. 10.08.21264785.

This preprint describes a model for predicting hospitalizations from COVID in the San Francisco area two to four weeks ahead of time.

Remsik J, Wilcox JA, Babady NE, McMillen TA, Vachha BA, Halpern NA, Dhawan V, Rosenblum M, Iacobuzio-Donahue CA, Avila **EK, Santomasso B, Boire A**. Inflammatory leptomeningeal cytokines mediate delayed COVID-19 encephalopathy. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.09.15.20195511. **PMCID: PMC7523144**

This work reports on the "...first series to demonstrate an increase in pro-inflammatory CSF cytokines..." in cancer patients with moderate and severe COVID-19 infections "...who subsequently developed moderate to severe neurologic symptoms" in the weeks following respiratory illness, suggesting that "...neurologic toxicity associated with COVID-19 is biochemically similar to CAR T cell neurotoxicity."

Robilotti EV, Babady NE, Mead PA, Rolling T, Perez-Johnston R, Bernardes M, Bogler Y, Caldararo M, Figueroa CJ, Glickman MS, Joanow A, Kaltsas A, Lee YJ, Lucca A, Joanow A, Mariano AR, Morjaria S, Nawar T, Papanicolaou GA, Predmore J, Redelman-Sidi G, Schmidt E, Seo SK, Sepkowitz K, Shah MK, Wolchok JD, Hohl TM, Taur Y, Kamboj M. Determinants of severity in cancer patients with COVID-19 illness. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.05.04.20086322. PMCID: PMC7274222

This preprint studies outcomes in 423 patients with cancer hospitalized for COVID-related symptoms. It found age (over 65) and immune checkpoint inhibitor therapy to be risk factors for disease severity and hospitalization.

Schuler BA, Habermann AC, Plosa EJ, Taylor CJ, Jetter C, Kapp ME, Benjamin JT, Gulleman P, Nichols DS, **Braunstein LZ**, Hackett A, Koval M, Guttentag SH, Blackwell TS, Vanderbilt COVID- 19 Consortium Cohort, Webber SA, Banovich NE, Kropski JA, Sucre JMS, HCA Lung Biological Network. Age-determined expression of priming protease TMPRSS2 and localization of SARS-CoV-2 infection in the lung epithelium. bioRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.05.22.111187. PMCID: PMC7263492

In this preprint, researchers use a mouse model of SARS-COV-2 to determine how lung development impacts disease susceptibility.

*Previous version of preprint was posted on Synapse COVID-19 list under the title "Age-related expression of SARS-CoV-2 priming protease TMPRSS2 in the developing lung."

Siddiq MM, **Chan AT**, Miorin L, Yadaw AS, Beaumont KG, Kehrer T, White KM, Cupic A, Tolentino RE, Hu B, Stern AD, Tavassoly I, Hansen J, Martinez P, Dubois N, Schaniel C, Iyengar-Kapuganti R, Kukar N, Giustino G, Sud K, Nirenberg S, Kovatch P, Goldfarb J, Croft L, McLaughlin MA, Argulian E, Lerakis S, Narula J, García-Sastre A, Iyengar R. Physiology of cardiomyocyte injury in COVID-19. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020. 11.10.20229294. **PMCID: PMC7668750**

In this preprint, a publication not yet peer-reviewed, the authors use clinical data from patients and results from experiences conducted in the lab to study how COVID-19 might affect the heart.

Starr TN, Czudnochowski N, Zatta F, Park YJ, Liu Z, Addetia A, Pinto D, Beltramello M, Hernandez P, Greaney AJ, Marzi R, **Glass WG**, **Zhang I**, Dingens AS, Bowen JE, Wojcechowskyj JA, De Marco A, Rosen LE, Zhou J, Montiel-Ruiz M, Kaiser H, Tucker H, Housley MP, di Iulio J,

Lombardo G, Agostini M, Sprugasci N, Culap K, Jaconi S, Meury M, Dellota E, Cameroni E, Croll TI, Nix JC, Havenar-Daughton C, Telenti A, Lempp FA, Pizzuto MS, **Chodera JD**, Hebner CM, Whelan SPJ, Virgin HW, Veesler D, Corti D, Bloom JD, Snell G. Antibodies to the SARS-CoV-2 receptor-binding domain that maximize breadth and resistance to viral escape. bioRx iv. 2021;2021.04.06.438709. Available from: https://dx.doi.org/10.1101/2021.04.06.438709.

The authors characterize the structure of a particular SARS-CoV-2 antibody type to determine features that might be targeted by vaccines and therapeutics in COVID-19 and

other diseases.

Su C, Zhang Y, **Flory JH**, Weiner MG, Kaushal R, Schenck EJ, Wang F. Novel clinical subphenotypes in COVID-19: Derivation, validation, prediction, temporal patterns, and interaction with social determinants of health. medRxiv. 2021. Available from: https://dx.doi.org/10.1101/2021.02.28.21252645.

This retrospective study analyzed "...14418 COVID-19 patients in five major medical centers in New York City (NYC), between March 1 and June 12, 2020" using machine learning and routinely collected clinical data. The goal of the study was to "...derive and validate COVID-19 subphenotypes to assess temporal patterns of these subphenotypes during the pandemic course and examine their interaction with social determinants of health (SDoH)."

Sungnak W, Huang Ni, Becavin C, Berg M, **HCLA Lung Biological**. SARS-CoV-2 entry genes are most highly expressed in nasal goblet and ciliated cells within human airways. arXiv. 2020.

Available from: https://dx.doi.org/10.48550/arXiv.2003.06122. **PMCID: PMC7280877**

This preprint article describes how the expression of genes that are coronavirus receptors are found in large amounts in the nasal passages. This could explain why nasal respiratory transmission is so significant.

Thompson MA, Henderson JP, Shah PK, Rubinstein SM, Joyner MJ, Choueiri TK, Flora DB, Griffiths EA, Gulati AP, Hwang C, Koshkin VS, **Papadopoulos EB, Robilotti EV**, Su CT, Wulff-Burchfield EM, Xie Z, Yu PP, Mishra S, Senefeld JW, Shah DP, Warner JL. Convalescent plasma and improved survival in patients with hematologic malignancies and COVID-19. medRxiv. 2021;21250953. Available from: https://dx.doi.org/10.1101/2021.02.05.21250953.

A retrospective cohort study of 966 patients with a hematologic malignancy who also have a COVID-19 diagnosis. Of this cohort, 143 (14.8%) received convalescent plasma and were found to have higher 30-day mortality rates than the control group.

Wang JY, Roehrl MW, Roehrl VB, **Roehrl MH**. A master autoantigen-ome links alternative splicing, female predilection, and COVID-19 to autoimmune diseases. bioRxiv. 2021. Available from: https://dx.doi.org/10.1101/2021.07.30.454526. **PMCID: PMC8351778**

This study investigates the connections between viral infections, such as COVID-19, and autoimmune disease.

Wang JY, Zhang W, Roehrl MW, Roehrl VB, **Roehrl MH**. An autoantigen atlas from human lung HFL1 cells offers clues to neurolog-

ical and diverse autoimmune manifestations of COVID-19. bioRxiv. 2021. Available from: https://dx.doi.org/10.1101/2021.01.24.427965.

PMCID: PMC7836114

This preprint describes a COVID autoantigen atlas developed using proteins from human fetal lung fibroblast HFL11 cells. This autoantigenome information contributes to a detailed molecular map that can be used to investigate neurological and autoimmune manifestations of COVID-19.

Wang JY, Zhang W, Roehrl MW, Roehrl VB, **Roehrl MH**. An autoantigen profile from Jurkat T-lymphoblasts provides a molecular guide for investigating autoimmune sequelae of COVID-19. bioRxiv. 2021. Available from: https://dx.doi.org/10.1101/2021.07.05.451199.

PMCID: PMC8562547

In this preprint, the authors studied autoantigens from human Jurkat T-cells. This study allows growing the autoantigens database to better understand post-COVID syndromes, such as autoimmune effects.

Wang JY, Zhang W, Roehrl MW, Roehrl VB, **Roehr MH**. An autoantigen profile of human A549 lung cells reveals viral and host etiologic molecular attributes of autoimmunity in COVID-19. bioRxiv. 2021. Available from: https://dx.doi.org/10.1101/2021.02.21.432171.

PMCID: PMC7924268

This preprint describes the identification of an autoantigen atlas from human lung epithelium-like A549 cells. The authors hope to understand better the autoimmune diseases caused by COVID-19.

Wang X, Sacramento CQ, Jockusch S, Chaves

OA, Tao C, Fintelman-Rodrigues N, Chien M, Temerozo JR, Li X, Kumar S, **Xie W**, **Patel DJ**, Meyer C, Garzia A, Tuschl T, Bozza PT, Russo JJ, Souza TML, Ju J. Combination of antiviral drugs to inhibit SARS-CoV-2 polymerase and exonuclease as potential COVID-19 therapeutics. bioRxiv. 2021. Available from: https://dx.doi.org/10.1101/2021.07.21.453274.

PMCID: PMC8312893

This preprint reports on the identification of two hepatitis C NS5A inhibitors (Pibrentasvir and Ombitasvir) as potential drugs to work in combination with current treatments such as Remdesivir, to reduce the viral RNA replication of SARS-CoV-2. This preprint describes a potential combination therapy for treatment of COVID-19.

White JR, Foote MB, Jee J, Argilés G, Wan JCM, Diaz LA Jr. PI3K/mTOR and topoisomerase inhibitors with potential activity against SARS-CoV-2 infection. medRxiv. 2020. Available from: https://dx.doi.org/10.1101/202 0.09.02.20186783.

This preprint reports on a data evaluation effort at Memorial Sloan Kettering Cancer Center to find possible therapeutic agents for preventing COVID-19 infection. The statistical analysis study identified two classes of therapeutic agents that have a potential to play a preventative role by affecting ACE2, our gene associated with SARS-CoV-2 infection.

Wu JTY, de la Hoz MAA, Kuo PC, Paguio JA, Yao JS, **Dee EC**, Yeung W, Jurado J, Moulick A, Milazzo C, Peinado P, Villares P, Cubillo A, Varona JF, Lee HC, Estirado A, Castellano JM, Celi LA. Developing and validating multi-modal models for mortality prediction in COVID-19 patients:

A multi-center retrospective study. arXiv. 2021. Available from: https://dx.doi.org/10.48550/arXiv.2109.02439.

The authors used machine learning to create a COVID-19 mortality prediction model, taking data from electronic health records and chest X-rays.

Zimmerman MI, Porter JR, Ward MD, Singh S, Vithani N, Meller A, Mallimadugula UL, Kuhn CE, Borowsky JH, **Wiewiora RP**, Hurley MFD, Harbison AM, Fogarty CA, Coffland JE, Fadda E, Voelz VA, **Chodera JD**, Bowman GR. SARS-CoV-2 simulations go exascale to capture spike opening and reveal cryptic pockets across the proteome. bioRxiv. 2020. Available from: https://dx.doi.org/10.1101/2020.06.27.175430.

PMCID: PMC7337393

This preprint describes how citizen scientists worldwide simulated protein folding to contribute to the understanding of SARS-CoV-2 and potential COVID treatments.

Ackerman B, Keane C, Beaver JA, Kluetz PG, Rivera D, Paliwal P, Singh H, Mpofu P, Amiri-Kordestani L, **Baxi SS**. Trends in diagnosis and treatment of early breast cancer (eBC) in the United States (US) during the COVID-19 era. Journal of Clinical Oncology. 2021;39(28 Suppl.).

This meeting abstract finds that early breast cancer diagnoses declined in April and May 2020 compared to March 2020, a decline not present in a 2019 cohort. Those diagnosed February-June 2020 were more likely than those diagnosed the year before to have systemic therapy as their primary treatment.

Baena Espinar J, Torri V, Whisenant J, Hirsch FR, Rogado J, de Castro Carpeño J, Halmos B, Ceresoli GL, Gomez Rueda A, Tiseo M, Felip E, Majem Tarruella M, Monnet I, Tapan U, Wakelee H, Huang LC, Garassino MC, Peters S, Horn L, **Hellmann M**. Defining COVID-19 outcomes in thoracic cancer patients: TERAVOLT (Thoracic cancERs international coVid 19 cOLlaboraTion). Annals of Oncology. 2020;31(Suppl. 4):S1204-S1205.

This abstract describes a global consortium of outcomes of COVID-19 infection in thoracic malignancies. It identified COVID-19 risk factors for increased mortality in these patients, such as age, smoking status, cancer stage, and need for steroids.

Belenkaya R, Watson A, Bethusamy S, Patel M, Sandler T, Schwartz J, Park J, Dobbins M, Maloy M, Lam M, Bahadur N, Philip J. Data harmonization for COVID-19 and cancer research registries. Clinical Cancer Research. 2020;26(18 Suppl.).

The research data on COVID-19 in cancer patients generated during the pandemic is

abundant and complex and it is recorded in multiple institutional and cross-institutional registries. It became a challenge to technically reconcile COVID-19 and cancer research registries built on different standards. To address the need, MSKCC created a framework for ensuring compatibility of COVID-19 and cancer research registries.

Bhanot U, Kombak FE, Ray-Kirton J, Taylor-Mason F, Tanaka A, Xiaoqing S, Silber J, Roehrl M. Remote digital pathology for clinical trials and research during the COVID-19 pandemic. Laboratory Investigation. 2021;101(Suppl. 1):933.

A description of the experience of the Precision Pathology Center at Memorial Sloan Kettering Cancer Center adopting digital and remote pathology solutions during the COVID-19 pandemic.

Bhanot U, Kombak FE, Ray-Kirton J, Taylor-Mason F, Tanaka A, Xiaoqing S, Silber J, Roehrl M. Remote digital pathology for clinical trials and research during the COVID-19 pandemic. Modern Pathology. 2021;34(Suppl. 2):933.

A description of the experience of the Precision Pathology Center at Memorial Sloan Kettering Cancer Center adopting digital and remote pathology solutions during the COVID-19 pandemic.

Bubb TN, Haas JP. Experience of infection preventionists during the first wave of COVID-19 outside of China. American Journal of Infection Control. 2021;49(6 Suppl.):S8-S9.

This conference abstract reports on the results of a survey posted periodically on social media in the first half of 2020 and completed

by specialized healthcare workers - Infection Preventionists (IPs) - from 16 US states and 4 countries, working predominantly in Acute Care. The reported experiences of IPs during the beginning of the pandemic included working long hours/overtime, shortages of protective equipment, stress, emotional exhaustion, etc. At the same time, the survey respondents felt that their profession's standing was boosted.

Budhai A, Vickerie S, Ahmed S, Bakker T, Venditti C, Pessin MS, Adem PV. One year of COVID-19 positive cancer patients: Blood product utilization trends and transfusion reaction investigations in this population. Transfusion. 2021;61(Suppl. 3):239A-240A.

A review of blood product utilization and transfusion reaction reports of cancer patients with COVID-19, with authors noting this population requires a significant commitment of resources from the transfusion service.

Cerulli J, Haviland K. Strategic planning for advanced practice inpatient management of COVID positive medical oncology patients. Oncology Nursing Forum. 2021;48(2):E2.

A description of a COVID-19 pandemic surge plan to meet the needs of cancer patients who were at an increased risk for infection during hospitalization.

Chahar S, Choudhary L, Ahuja R, Sreeram K, Choudhary A. An impact of COVID-19 pandemic on pathology resident training. Laboratory Investigation. 2021;101(Suppl. 1):325-326.

Results of an electronic survey of 118 pathology trainees to identify how the COVID-19 pandemic impacted their education and training.

Chahar S, Choudhary L, Ahuja R, Sreeram K, Choudhary A. An impact of COVID-19 pandemic on pathology resident training. Modern Pathology. 2021;34(Suppl. 2):325-326.

Results of an electronic survey of 118 pathology trainees to identify how the COVID-19 pandemic impacted their education and training.

Chu S. Operationalizing surge staffing in an oncology ICU during the COVID-19 pandemic. Oncology Nursing Forum. 2021;48(2):E2.

An outline of nursing care strategies for critically ill oncology patients during the COVID-19-related surge in intensive care unit patient volume.

Costas-Muniz R, Galindo-Vazquez O, Montana F, Ruda-Santolaria L, Sanchez-Ramirez JC, Torres-Blasco N, Castro EM, Esenarro L, Claros M, Narang B, Breitbart WS, Gany F. Delivery of mental health services to Latino cancer patients during the COVID-19 pandemic in Latin America and United States. Annals of Behavioral Medicine. 2021;55(Suppl. 1):S133.

Results of an online survey of mental health providers offering services to Latino or Hispanic cancer patients in the United States, Latin America, and Spain, specifically their professional background, clinical productivity, and delivery of mental health services during the COVID-19 pandemic.

Costas-Muniz R, Montana F, Ruda-Santolaria L, Sanchez-Ramirez JC, Torres-Blasco N, Castro EM, Esenarro L, Galindo-Vazquez O, Breitbart WS, Claros M, Narang B, Gany F. COVID-19 pandemic related concerns of Latino cancer patients: Perspectives of mental health providers from US and Latin America. Annals of Behavioral Medicine. 2021;55(Suppl. 1):S123.

Results of an online survey of mental health providers offering services to Latino or Hispanic cancer patients in the United States, Latin America, and Spain, specifically their perspective of the concerns and needs of these patients during the COVID-19 pandemic.

Cuaron JJ, Gillespie EF, Shaverdian N, Benvengo S, Washington CM, Cahlon O, Gomez DR. Safety and satisfaction of patients opting for fully remote consultation and on-treatment management visits during COVID-19. International Journal of Radiation Oncology, Biology, Physics. 2021;111(3 Suppl.):S111.

This work reports on the experience of 192 patients (treated at 208 sites) who after the pandemic restrictions were relaxed and opted for fully remote management via telemedicine. The safety data that was prospectively collected and the data from patient satisfaction surveys showed that "treatment with fully remote providers is safe and feasible" and that there was high patient satisfaction.

Desai N, Ting D, Neyaz A, Szabolcs A, Shih A, Chen J, Thapar V, Nieman L, **Solovyov A**, Mehta A, Lieb D, Kulkarni A, Jaicks C, Pinto C, Monroe R, Danaher P, Gong J, Juric D, Chebib I, **Greenbaum B**, Rivera M, Hacohen N, Sholl L, Stone J, Ting D, Deshpande V. Temporal spatial heterogeneity of immune response to SARS- CoV-2 lung infection. Journal of Molecular Diagnostics. 2020;22(Suppl. 11):S33-S34.

This meeting abstract reports on a study (of 89 pulmonary and extrapulmonary samples from 24 COVID-19 autopsies) that attempted to investigate the relationship between SARS-CoV-2 lung infection and the severity of pulmonary disease.

Ferreri AJM, Steffanoni S, Calimeri T, Laurenge A, Fox CP, Soussain C, **Grommes C**, Sassone MC, Touat M, Boot J, Crosbie N, Chaganti S, Dietrich J, Alencar A, Itchaki G, Hoang Xuan K, Batchelor T, Cwynarski K. SARS-CoV-2 infection in 50 patients with primary CNS lymphoma: Presentation, effects on tumor treatment and outcome in a series of the International PCNSL Collaborative Group. Hematological Oncology. 2021;39(Suppl. 2):227.

This conference abstract reports an international study of 50 patients with CNS lymphoma and concurrent COVID-19.

Gampel B, **Troullioud Lucas A**, Broglie L, Gartrell-Corrado R, Lee M, Levine J, Orjuela-Grimm M, Satwani P, **Glade Bender J**, **Roberts S**. COVID-19 in pediatric hematology and oncology patients in New York City. Pediatric Blood and Cancer. 2020;67(Suppl. 4):S36.

This conference abstract describes 19 hematology, oncology and hematopoietic cell transplant pediatric patients who tested positive for COVID. Most had mild symptoms similar to children without cancer.

Glincher R, Cheung NK, Kasper C, Scoppetuolo LA, Modak S. Telemedicine blood pressure monitoring after anti-GD2 monoclonal antibody immunotherapy during the

COVID-19 pandemic. Pediatric Blood and Cancer. 2020;67(Suppl. 4):S116.

A conference abstract about remotely monitoring blood pressure post-immunotherapy during the pandemic in order to detect the potential onset of adverse treatment effects.

Gunther JR, Yang JC, **Hajj C**, Ng AK, Brady JL, Cheng S, Levis M, Qi S, Mikhaeel G, Ricardi U, Illidge T, Turin A, Knafl M, Specht L, Dabaja B, **Yahalom J**. Efficacy and toxicity of alternative radiation treatment schemes for patients with hematologic malignancies: A collaborative ILROG COVID era report. International Journal of Radiation Oncology, Biology, Physics. 2021;111(3 Suppl.):e308-e309.

This multi-center study that included ninety-three patients with hematologic malignancies from 4 institutions (114 RT courses), evaluated the preliminary efficacy and toxicity of novel hypofractionated radiation therapy regimens that were adopted during the COVID pandemic (1/1/2020 to 8/31/2020) according to guidelines published by the International Lymphoma Radiation Oncology Group (ILROG). The preliminary findings showed "...low rates of acute toxicity and reasonable short-term treatment efficacy" but longer follow-up and further control group analysis is needed and forthcoming.

Hajj C, Lee J, Fregonese B, Imber BS, Wijetunga NA, Yang JC, Casey DL, Yahalom J. "Big Boom" radiation treatment (RT) of 4 Gy single fraction: Is it an acceptable alternative to "Boom Boom" radiation treatment 2 Gyx2 fractions for non-Hodgkin lymphomas (NHL)? International Journal of Radiation Oncology, Biology, Physics. 2021;111(3 Suppl.):e306.

This study evaluates a single center's experience adopting emergency guidelines published by the International Lymphoma Radiation Oncology Group (ILROG) to support hypofractionation across multiple dose regimens for 36 non-Hodgkin lymphoma patients. The group reported that early response rates to the one dose regimen (adopted between March 30, 2020 through November 30, 2020 due to the COVID-19 pandemic) are similar but that "...longer term follow-up is required to confirm the durability of these results."

Hole A, Houlihan N. Implementing standardized care for COVID-19 and an oncology institution's experience. Oncology Nursing Forum. 2021;48(2):E2.

A description of the experience of standardizing acute and ongoing care for cancer patients during a COVID-19 surge.

Kang JJ, Wu Y, Rybkin A, Yu Y, Chen L, Zakeri K, McBride S, Riaz N, Tsai CJ, Gelblum D, Wong RJ, Sherman E, Pfister DG, Lee NY. Oropharyngeal cancer early outcomes and challenges during the COVID-19 pandemic. International Journal of Radiation Oncology, Biology, Physics. 2021;111(3 Suppl.):e412.

By comparing a cohort of new patients early in the COVID pandemic (March 17, 2020-July 2020) versus a historical, contemporary pre-COVID patient cohort (November 2019-March 16, 2020), the authors were able to evaluate if "...early oropharyngeal cancer (OPC) outcomes with radiation therapy (RT) were affected" by COVID pandemic-related practice changes. Although "...no difference in early 6 month outcomes" between cohorts

were found, important clinical trends were identified that may not be favorable to long-term outcomes.

Kentley J, Edwards C, Heelan K, Harwood C, Fearfield L. Remote management of immunotherapy-induced bullous pemphigoid during the COVID-19 pandemic. British Journal of Dermatology. 2021;185(Suppl. 1):145-146.

This conference abstract looked at how teledermatology provided support to patients experiencing immune checkpoint inhibitor toxicity during the height of the COVID-19 pandemic.

Kim SJ, Shahrokni A, Korc-Grodzicki B, Litchfield H, Malling C, Fessele K. Surviving the pandemic: A retrospective review of older cancer patients admitted with COVID-19. Oncology Nursing Forum. 2021;48(2):E3.

A retrospective review of 70 cancer patients over the age of 75 admitted between March 1, 2020 and May 31, 2020 who tested positive for COVID-19 within 72 hours of admission.

Kiviniemi MT, **Hay JL**, Waters EA, Orom HA. My risk and your risk: Perceived personal versus other risk as influences on actions to prevent COVID-19 infections. Annals of Behavioral Medicine. 2021;55(Suppl. 1):S547.

This abstract from the 2021 Annals of Behavioral Medicine meeting reports on a survey of 410 American adults on the perception of their own risk versus the risk to other people.

Lara O, Smith M, Wang Y, **O'Cearbhaill R**, Blank S, Knisely A, McEachron J, Gabor L, Chapman-Davis E, **Jee J**, Isani S, Liu M, Wright

J, Pothuri B. Racial disparities in patients with COVID-19 infection and gynecologic malignancy. International Journal of Gynecological Cancer. 2020;30(Suppl. 4):A54.

Data from 8 New York-area hospital systems showed that Black patients with gynecologic cancer and COVID-19 were more likely to require hospitalization than non-Black patients.

Lauria T, Chow K, Polskin L, Giles C, Holland J, Majeed J. A remote symptom monitoring program for oncology patients diagnosed with COVID-19. Oncology Nursing Forum. 2021;48(2):E1.

A description of the patient experience with remote COVID-19 symptom monitoring as implemented by Memorial Sloan Kettering Cancer Center's COVID Cohort Monitoring Team.

Luo J, Rizvi H, Preeshagul IR, Egger J V, Hoyos D, Bandlamudi C, Donoghue MTA, Łuksza M, Greenbaum BD, Wolchok JD, Kris MG, Hellmann MD. COVID-19 in patients with lung cancers in New York City. Clinical Cancer Research. 2020;26(18 Suppl.)

While it became clear that cancer patients with COVID-19 were especially vulnerable to a severe course of COVID-19, it raised questions as to whether these vulnerabilities were related predominantly to patient characteristics or to cancer and cancer treatments. The research on specific treatment for lung cancer established that patient-related characteristics influence the severity of COVID-19 rather than cancer treatment. This conclusion will be instrumental for optimal decision making on treatment of these patients.

McMillen T, Jani K, Viale A, Robilotti E, Aslam

A, Sokoli D, Mason G, Shah M, Korenstein D, Kamboj M, Babady E. Comparison of nasopharyngeal swabs and saliva samples for the detection of SARS-Cov-2 RNA. Journal of Molecular Diagnostics. 2020;22(Suppl. 11):S37.

This meeting abstract reports on the results of a study (during which eighty-seven paired NPS and saliva samples were collected) looking into the feasibility of using saliva as an alternative for COVID-19 testing (SARS-CoV-2 RNA detection by RT-PCR) in order to overcome the lack of availability of nasopharyngeal swabs (NPS). Saliva was found to be an acceptable alternative sample for SARS-CoV-2 RNA detection by RT-PCR.

McMillen T, Jani K, Viale A, Robilotti E, Aslam A, Sokoli D, Mason G, Shah M, Korenstein D, Kamboj M, Babady E. Comparison of oral rinses and nasopharyngeal swabs for the detection of SARS-CoV-2 RNA. Journal of Molecular Diagnostics. 2020;22(Suppl. 11):S37-S38.

This meeting abstract reports on the results of a study (during which 98 paired oral rinse and NPS samples were collected) looking into the feasibility of using oral rinse as an alternative for COVID-19 testing (SARS-CoV-2 RNA detection by RT-PCR) in order to overcome the lack of availability of nasopharyngeal swabs. Oral rinses were not found to be a suitable alternative to nasopharyngeal swabs.

McMillen T, Jani K, Viale A, Robilotti E, Aslam A, Sokoli D, Mason G, Shah M, Korenstein D, Kamboj M, Babady E. The evaluation of oropharyngeal swabs and saliva samples for the detection of SARS-CoV-2 RNA. Journal of Molecular Diagnostics. 2020;22(Suppl. 11):S39.

This meeting abstract reports on the results

of a study (during which a total of 100 paired saliva and orophrayngeal swabs (OPS) samples were collected) looking into the feasibility of using saliva versus OPS for COVID-19 testing (SARS-CoV-2 RNA detection by RT-PCR). Saliva was found to be superior to oropharyngeal swabs for detection of SARS-CoV-2 RNA.

Miller R, Anabaraonye N, **Tsai J**, Saeed H, **Chino F**, Garcia O, Ekpo E, Ahuja S, Lauro C. Impact of the early COVID-19 pandemic on sex participation in academic publishing in radiation oncology. American Journal of Clinical Oncology. 2021;44(10):S100.

The authors of this conference abstract (P107) found that early career female first authorship declined in the journal ASTRO Advances in Radiation Oncology during the early pandemic compared to the pre-pandemic rate.

Nagaraj G, Accordino MK, French B, Kuderer NM, Lyman GH, Stover DG, **Blinder VS**, Schmidt AL, Shatsky RA, Grover P, Puc M, Hwang C, Wulff-Burchfield EM, Lewis MA, Menendez AG, Bilen MA, Warner JL, Lustberg MB, Shah DP. Racial and ethnic disparities among patients with breast cancer and COVID-19. Journal of Clinical Oncology. 2021;39(15 Suppl.).

A study of 1,133 patients identified within the COVID-19 and Cancer Consortium registry who are in the United States, have invasive breast cancer, and received a laboratory-confirmed SARS-CoV-2 diagnosis between March 6, 2020 and February 4, 2021

Orom HA, Waters EA, **Hay JL**, **Tuman M**, Kiviniemi MT. The US failure to control the COVID-19 epidemic has a Whiteness problem.

Annals of Behavioral Medicine. 2021;55(Suppl. 1):S548.

This conference abstract discusses the results of a survey on COVID-19 beliefs and prevention completed by a representative sample of the U.S. adults in June 2020. The respondents' breakdown by race, and the impact of different racial groups attitudes towards COVID-19 prevention on the course of the pandemic, is discussed.

Park KU, Gregory ME, Lustberg MB, Bazan JG, Shen C, Rosenberg SM, **Blinder VS**, Sharma P, Pusztai L, Partridge AH, Thompson A. Emerging from COVID-19 pandemic: Provider perspective on use of neoadjuvant endocrine therapy (NET) in early-stage hormone receptor positive breast cancer. Cancer Research. 2021;81(4 Suppl.).

Results of a survey of 114 healthcare providers to evaluate patterns of care in early-stage estrogen receptor positive breast cancer during the first months of the COVID-19 pandemic.

Patel VG, Zhong X, **Shah NJ**, Martina LP, Hawley J, Lin E, Gartrell BA, Febles VRA, Wise DR, Qin Q, Mellgard G, Nauseef JT, Green D, Vlachostergios PJ, Kwon D, Huang FW, Liaw BCH, Tagawa ST, **Morris MJ**, Oh WK. The role of androgen deprivation therapy on the clinical course of COVID-19 infection in men with prostate cancer. Journal of Clinical Oncology. 2021;39(6 Suppl.).

This ASCO meeting abstract presents the negative findings of a retrospective cohort study of 465 prostate cancer patients who were evaluated for SARS-COV-2 viral detection by PCR to determine whether the use of androgen deprivation therapy by patients prior to COVID-19

diagnosis offered protection against severe COVID illness.

Rogers R, Singh N, Dolan B. Utilizing designated ICU nurses to uptrain oncology stepdown nurses in caring for critically ill patients during the COVID-19 pandemic. Oncology Nursing Forum. 2021;48(2):E2.

A description of the creation of the 'Support RN' role within the intensive care unit to help transition step-down nurses to critical care nursing during the COVID-19 pandemic.

Rowland JH, Goyal N, **Applebaum AJ**, Coons HL. Coping in the era of COVID: Lessons learned and adapted. Annals of Behavioral Medicine. 2021;55(Suppl. 1):S596.

This conference abstract describes the agenda for a clinical expert discussion panel on the unique challenges that faced cancer patients, caregivers and cancer care providers, as well as lessons learned and innovative modifications to providing care that can be incorporated into post-pandemic practice and improve future cancer care delivery.

Ruby J, Noon B, Carmody C. Manual proning of COVID+ patients in an oncology ICU. Oncology Nursing Forum. 2021;48(2):E1.

A description of a clinical practice change to include manual proning as a standard practice with COVID-19 patients who were mechanically ventilated.

Sales R. Successful continuation of enrollment and prompt treatment during COVID-19 in a concurrent radiation and chemotherapy head and neck protocol. Oncology Nursing Forum. 2021;48(2):E2.

A description of how the COVID-19 pandemic impacted the second cohort of a two cohort, non-randomized study to treat patients with oropharyngeal carcinoma and how oncology nurse navigators and oncology nurses responded.

Sarkar RR, Wu AJ, Reyngold M, Cuaron JJ, Zinovoy M, Hajj C, Pappou E, Segal N, Yaeger R, Wei IH, Widmar M, Weiser M, Paty P, Cercek A, Smith JJ, Saltz L, Garcia-Aguilar J, Crane CH, Romesser PB. Feasibility of organ preservation with short course radiation therapy as part of total neoadjuvant therapy in locally advanced rectal cancer during the COVID-19 pandemic. International Journal of Radiation Oncology, Biology, Physics. 2021;111(3 Suppl.):e73-e74.

This study investigated whether short-course radiation therapy (SCRT) as part of total neoadjuvant therapy (TNT) is safe and feasible for patients by following a cohort of 42 patients who were treated with SCRT during an institutional COVID-19 pandemic mandate (from March to June of 2020), when all patients undergoing radiation therapy for locally advanced rectal cancer were treated with SCRT. The findings suggest that a watch-and-wait (WW) strategy after SCRT-TNT is feasible, but more long-term research is needed to establish oncologic safety.

Schaff L, Lobbous M, Bozza A, Carlow D, Nabors L, Grommes C. Planned-use glucarpidase for outpatient high dose methotrexate (HD-MTX) administration in patients with CNS lymphoma (CNSL) during the COVID-19 pandemic. Neuro-Oncology. 2020;22(Suppl. 2):ii25-ii26.

This meeting abstract reports on the

results of a small study (seven treatments administered to three patients) investigating the feasibility of using glucarpidase to make outpatient high dose methotrexate administration to CNS lymphoma patients possible during the COVID-19 pandemic.

Shah DP, Shah P, Schmidt AL, Bakouny Z, Farmakiotis D, Abidi M, Rubinstein SM, **Figueroa CJ**, Labaki C, Friese CR, Rathmann J, Hwang C, McKay RR, Park C, Puc M, Nagaraj G, French B, Warner JL, Shete S. Lower respiratory tract disease (LRTD) in patients with cancer and COVID-19: A COVID-19 and Cancer Consortium (CCC19) study. Journal of Clinical Oncology. 2021;39(15 Suppl.).

A review of 7,289 adult cancer patients with laboratory-confirmed SARS-CoV-2 infection reported between March 16, 2020 and February 6, 2021 in the international COVID-19 and Cancer Consortium registry, with authors noting that the COVID-19-related lower respiratory tract disease rate is high and associated with worse mortality rates in cancer patients.

Smeltzer M, Bunn B, Choi YS, Coate L, Corona-Cruz J, **Drilon A**, Duma N, Edelman M, Fidler MJ, Gadgeel S, Goto Y, Herbst R, Hesdorffer M, Higgins K, Labdi B, Leal T, Liu S, Mazotti J, Novello S, Patel S, Popat S, Ramirez R, Reckamp K, Reguart N, Soo R, Tan A, Wolf J, Yano S, Stiles B, Baird A. The global impact of COVID-19 on telehealth and care for persons with thoracic cancers. Journal of Thoracic Oncology. 2021;16(10 Suppl.):S879.

This conference abstract looked at how telehealth was used during the COVID-19 pandemic and how it impacts thoracic cancer care. Smith M, Lara O, **O'Cearbhaill R**, Sutter M, Knisely A, McEachron J, Gabor L, Carr C, Blank S, Prasad-Hayes M, Frey M, **Jee J**, Fehniger J, Lee YC, Isani S, Wright J, Pothuri B. Inflammatory markers in gynecologic oncology patients hospitalized with COVID-19. International Journal of Gynecological Cancer. 2020;30(Suppl. 3):A120.

An evaluation of 86 patients with a history of gynecologic cancer who were hospitalized with COVID-19, with authors noting that inflammatory markers (ferritin and C-reactive protein) in these patients are associated with COVID-19 severity and can be used as prognostic markers.

Sundar SS, Leung E, Khan T, Glasbey J, **Abu-Rustum N**, Chiva LM, Fagotti A, Fujiwara K, Ghebre R, Gultekin M, Konney T, Ng J, Pareja R, Seenivasagam RK, Sehouli J, Shylasree T, Bhangu A, Fotopoulou C, Covidsurg Cancer Collaborators. Impact of the COVID pandemic on gynaecological cancer surgery - Results from the Covidsurg gynaecological cancer international study. International Journal of Gynecological Cancer. 2020;30(Suppl. 4):A123-A124.

This multi-center study looks at the impact of COVID on gynecological cancer surgery. As described in this conference abstract, surgical delays and change in type of surgery occurred relatively frequently, while COVID-related adverse surgical outcomes were low.

Tuman M, Hay JL, Schofield E, Orom HA, Waters EA, Kiviniemi MT. Cultural influences on perceptions of risk for COVID-19. Annals of Behavioral Medicine. 2021;55(Suppl. 1):S548.

This conference abstract reports on the results of a survey on COVID-19 risk perception completed by a sample of U.S. adults in June

2021. The research was aimed at establishing whether any correlation existed between beliefs prioritizing hierarchical social order, and individualism (beliefs prioritizing autonomy) and perception of infectious disease risks.

Waters EA, Peters E, Kiviniemi MT, **Tuman** M, **Hay JL**, Orom HA. Risk perception research in the era of COVID-19: A multi-faceted investigation. Annals of Behavioral Medicine. 2021;55(Suppl. 1):S547.

This abstract from the 2021 Annals of Behavioral Medicine meeting introduces the symposium's risk perception research presenters and their topics.

Wilcox JA, Remsik J, Babady NE, McMillen TA, Vachha BA, Halpern NA, Dhawan V, Rosenblum M, Iacobuzio-Donahue CA, Avila EK, Santomasso B, Boire A. An inflammatory leptomeningeal signature in cancer patients with neurologic manifestations of COVID-19. Cancer Research. 2021;81(13 Suppl.).

A prospective evaluation of 18 cancer patients with confirmed SARS-CoV-2 infection and subsequent neurologic manifestations, with authors noting that findings suggest a potential role for anti-inflammatory treatments with these patients.

Wong KA, Lazo K, Mogilevskaya Y, Tan M, Feinstein MB. Thirty-day mortality among patients with SARS-CoV-2 infection undergoing active antitumoral therapy. American Journal of Respiratory and Critical Care Medicine. 2021;203.

A retrospective study of 1,770 cancer patients who tested positive for COVID-19

between March 2020 and May 2020 at Memorial Sloan Kettering Cancer Center, with authors noting results suggest short-term mortality among patients receiving immunotherapy may be higher than those receiving chemotherapy alone.

Wu A, Plodkowski A, Ginsberg M, Shin J, Laplant Q, Shepherd A, Shaverdian N, Ng V, Yue Y, Gilbo P, Gelblum D, Braunstein L, Gomez D, Rimner A. Radiotherapy-associated CT imaging as a potential screening tool for COVID-19. Journal of Thoracic Oncology. 2021;16(3 Suppl.):S252.

A review of 414 computed tomography simulation scans performed on 400 radiotherapy patients between March 1, 2020 and April 13, 2020, with authors noting that these scans obtained for radiation treatment planning can be reviewed for signs of COVID-19 pneumonia.

