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For a searchable GW Resource guides see:

GW Covid-19 Research Guide: <https://guides.himmelfarb.gwu.edu/covid-19> and
GW Covid-19 Intelligence Reports: <https://guides.himmelfarb.gwu.edu/SituationReport>

CLINICAL KNOWLEDGE

Critical Care

Care of the Critically Ill and Injured During Pandemics and Disasters

- [https://journal.chestnet.org/article/S0012-3692\(15\)51985-5/pdf](https://journal.chestnet.org/article/S0012-3692(15)51985-5/pdf)
- Note from submitter: American Society of Chest Physicians 2014 summary of suggestions for the management of critically ill adults and children resulting from a disaster or pandemic.

Primer on care of critically-ill patients with Covid-19

- <https://www.acponline.org/featured-products/critical-care-video-shorts/view-critical-care-video-shorts>
- Note from submitter: High-Yield Primer on the care of critically-ill patients for the non-intensivist/hospitalist.

Society of Critical Care Medicine Surviving Sepsis Recommendations

- https://journals.lww.com/ccmjournal/Abstract/onlinefirst/Surviving_Sepsis_Campaign_Guidelines_on_the.95707.aspx
- Note from submitter: SCCM recommendations on prevention/treatment of sepsis published March 27, 2020.

Management of Critically Ill Adults with Covid-19

- <https://jamanetwork.com/journals/jama/fullarticle/2763879>
- Poston JT, Patel BK, Davis AM. Management of Critically Ill Adults With COVID-19. JAMA. Published online March 26, 2020. doi:10.1001/jama.2020.4914
- Note from submitter: JAMA Clinical Guidelines Synopsis, "Management of Critically Ill Adults With COVID-19."

Hospitalist and Medical Care

Lower mortality of COVID-19 by early recognition and intervention: experience from Jiangsu Province

- <https://annalsofintensivecare.springeropen.com/track/pdf/10.1186/s13613-020-00650-2>
- Note from submitter: Model of early recognition of patients most likely to clinically deteriorate; model for early detection of high-risk and potential critically ill patients. Patients were screened twice every day and respiratory rate (RR), heart rate (HR), SpO2 (room air) were monitored regularly. Once SpO2 < 93%, RR > 30/min, HR > 120/min or any signs of organ failure were observed, patients would be transferred to intensive care unit (ICU). Model for awake prone position in patients which showed significant effects in improving oxygenation and pulmonary heterogeneity.

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Care Recommendations for Home-Based Ventilation Patient

- <https://foundation.chestnet.org/patient-education-resources/covid-19-resources-care-recommendations-home-based-ventilation-patients/>
- Note from submitter: Do not use humidifier, use a filter in line with the tubing, clean the tube and mask every other day and make sure the mask is best fit.

GW COVID-19 Inpatient Care Algorithm

- [https://www.gwumc.edu/scripts/ckfinder/userfiles/medicine/files/CoVID-19%20Housestaff-AP%20Provider%20Algorithm\(2\).pdf](https://www.gwumc.edu/scripts/ckfinder/userfiles/medicine/files/CoVID-19%20Housestaff-AP%20Provider%20Algorithm(2).pdf)
- Note from submitter: GW's current inpatient algorithm. Process standardization of non-critical care COVID-19 patient across the hospital care continuum.

Post-Acute Care

- <https://www.ncbi.nlm.nih.gov/pubmed/32211831>
- **Viewpoint article on preparing for care for patients who recover from Covid-19 infection**
- Grabowski DC, Joynt Maddox KE. Postacute Care Preparedness for COVID-19: Thinking Ahead. JAMA. Published online March 25, 2020. doi:10.1001/jama.2020.4686
- Note from submitter: Viewpoint article on preparing for care for patients who recover from Covid-19 infection.

Cardiology

Cardiology and Covid-19

- <https://youtu.be/CjEhV68GcD8> or <https://www.acc.org/COVID19>
- American College of Cardiology Guidelines related to Covid-19 cardiovascular injury
- Note from submitter: ACC webinar held in partnership with the Chinese Cardiovascular Association on March 18 addressing myocardial injury with Coronavirus (COVID-19) and the latest guideline published by the Chinese College of Cardiovascular Physicians.

Oncology

Cancer

- <https://jncn.org/view/journals/jncn/aop/article-10.6004-jncn.2020.7560/article-10.6004-jncn.2020.7560.xml>
- Ueda M, et al "Managing cancer care during the COVID-19 pandemic: agility and collaboration toward a common goal" J Natl Compr Canc Netw 2020; DOI: 10.6004/jncn.2020.7560.
- Note from submitter: Article on the challenges of cancer treatment amidst the Covid-19 – experience from University of Washington Cancer Center.

Surgery

Laproscopy & Endoscopy

- <https://www.sages.org/recommendations-surgical-response-covid-19/>
- SAGES and EAES Recommendations Regarding Surgical Response to COVID-19 Crisis. Updated guidelines for Laparoscopic Surgery and Endoscopy published March 29, 2020.

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ACS Workforce Protection

- <https://www.facs.org/covid-19/newsletter/032720/clinical-guidance>
- American College of Surgeons Guidelines, “COVID 19 and Surgery” American College of Surgeons clinical and workforce protection guidelines published March 27, 2020.

Treatment

ACE Inhibitors

- <https://jamanetwork.com/journals/jama/fullarticle/2763803>
- Patel AB, Verma A. COVID-19 and Angiotensin-Converting Enzyme Inhibitors and Angiotensin Receptor Blockers: What Is the Evidence? JAMA. Published online March 24, 2020.
- Note from submitter: JAMA Viewpoint article on use of ACE and angiotensin receptor blockers in patients with Covid-19.

Treatment Review

- <https://secure.medicalletter.org/w5014a>
- The Medical Letter on Drugs and Therapeutics – Covid-19. ADVANCE RELEASE ARTICLE, March 24, 2020 “COVID-19 - Some Drug-Related Issues”

Convalescent plasma

- <https://jamanetwork.com/journals/jama/fullarticle/2763983>
- JAMA Preliminary Communication: Treatment with convalescent plasma.
- Shen C, Wang Z, Zhao F, et al. Treatment of 5 Critically Ill Patients With COVID-19 With Convalescent Plasma. JAMA. Published online March 27, 2020. doi:10.1001/jama.2020.4783
- Note from submitter: JAMA Preliminary Communication: Treatment with convalescent plasma.

OBGYN

Coronavirus (COVID-19) Infection in Pregnancy

- <https://www.rcog.org.uk/globalassets/documents/guidelines/2020-03-21-covid19-pregnancy-guidance-2118.pdf>
- Guidelines from the Royal College of Obstetricians and Gynaecologists (UK)
- Note from submitter: Guidelines from the Royal College of Obstetricians and Gynaecologists (UK) released March 21, 2020.

COVID-19 in Pregnancy: Early Lessons

- https://els-jbs-prod-cdn.literatumonline.com/pb/assets/raw/Health%20Advance/journals/ymob/COVID_Early_Lessons_032620-1585251897613.pdf
- Note from submitter: 2 of 7 confirmed COVID-19-positive pregnant patients in this series were asymptomatic upon admission, exposing multiple health care workers; therefore, changes to obstetrical practices may be indicated to protect HCWs. Released March 26, 2020.

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Labor and Delivery

- <https://youtu.be/FT5h4oMUOFk>
- COVID-19 Preparing a Labor and Delivery Unit
- Note from submitter: Society for Maternal Fetal Medicine guidelines for preparation of Labor and Delivery units.

Pathology / Laboratory

Pathology/Lab

- <https://jamanetwork.com/journals/jama/fullarticle/2763854>
- “Antibodies in Infants Born to Mothers With COVID-19 Pneumonia” Hui Zeng, Chen Xu, Junli Fan. JAMA. Published online March 26, 2020.
- Note from submitter: JAMA Research Letter outlining laboratory markers of serological characteristics of infants whose mothers are infected with SARS-CoV-2.

Ethics

Advance Care Planning and DNR

- <https://www.ncbi.nlm.nih.gov/pubmed/32219360>
- **JAMA Viewpoint: Advance Care Planning and DRN in patients with Covid-19**
- Curtis JR, Kross EK, Stapleton RD. The Importance of Addressing Advance Care Planning and Decisions About Do-Not-Resuscitate Orders During Novel Coronavirus 2019 (COVID-19). JAMA. Published online March 27, 2020. doi:10.1001/jama.2020.4894
- Note from submitter: JAMA Viewpoint: Advance Care Planning and DNR in patients with Covid-19.

HEALTH WORKFORCE

Workforce: Health Care Worker Exposure Guidelines

- <https://www.cdc.gov/coronavirus/2019-ncov/hcp/guidance-risk-assesment-hcp.html>
- Interim CDC guidelines on HCW exposure (3/7/2020)
- Note from submitter: Point of care decision risk-stratification for our health-care workforce

Workforce: Surgery - American College of Surgeons Guidelines

- <https://www.facs.org/covid-19/newsletter/032720/clinical-guidance>
- “COVID 19 and Surgery” American College of Surgeons clinical and workforce protection guidelines. Released March 27, 2020

Workforce: Ob/Gyn

- <https://www.rcog.org.uk/globalassets/documents/guidelines/2020-03-21-covid19-pregnancy-guidance-2118.pdf>
- **Guidelines from the Royal College of Obstetricians and Gynaecologists (UK)** released March 21, 2020.

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Workforce: COVID-19 in Pregnancy: Early Lessons

- https://els-jbs-prod-cdn.literatumonline.com/pb/assets/raw/Health%20Advance/journals/ymob/COVID_Early_Lesson_s_032620-1585251897613.pdf
- Note from submitter: 2 of 7 confirmed COVID-19-positive pregnant patients in this series were asymptomatic upon admission, exposing multiple health care workers; therefore, changes to obstetrical practices may be indicated to protect HCWs.

Workforce: GW COVID-19 Inpatient Care Algorithm

- [https://www.gwumc.edu/scripts/ckfinder/userfiles/medicine/files/CoVID-19%20Housestaff-AP%20Provider%20Algorithm\(2\).pdf](https://www.gwumc.edu/scripts/ckfinder/userfiles/medicine/files/CoVID-19%20Housestaff-AP%20Provider%20Algorithm(2).pdf)
- Note from submitter: GW's current inpatient algorithm. Process standardization of non-critical care COVID-19 patient across the hospital care continuum

Workforce: Nursing Crisis Standards of Care (3 links)

- https://s3.amazonaws.com/nursing-network/production/files/93017/original/FINAL_Crisis_Standards_of_Care_28003_29-ANA.pdf?1585322273
- Note from submitter: In a pandemic, nurses can find themselves operating in environments demanding a balance between time limited crisis standards of care and longstanding professional standards of care. This guidance applies to decisions about care made during extreme circumstances such as those resulting from emergencies, disasters or pandemics like COVID-19.

Workforce: Keeping the coronavirus from infecting healthcare workers

- https://www.newyorker.com/news/news-desk/keeping-the-coronavirus-from-infecting-health-care-workers?utm_source=onsite-share&utm_medium=email&utm_campaign=onsite-share&utm_brand=the-new-yorker
- Note from submitter: Reviews recent experiences around the world, and summarizes policies in place in various medical centers.

EPIDEMIOLOGY

Aerosol and Surface Stability of Covid-19 virus

- <https://www.nejm.org/doi/full/10.1056/NEJMc2004973>
- **NEJM Letter: Stability of SARS-CoV-2 and SARS-CoV-1 in aerosols and on various surfaces and estimated decay rates.** van Doremalen N, Bushmaker T, Morris DH, et al. "Aerosol and Surface Stability of SARS-CoV-2 as Compared with SARS-CoV-1" [published online ahead of print, 2020 Mar 17]. N Engl J Med. 2020;10.1056/NEJMc2004973. doi:10.1056/NEJMc2004973
- Note from submitter: Good evidence base for aerosolized Covid 19

DC DOH – Testing in DC

- Testing progress <https://coronavirus.dc.gov/release/coronavirus-data-update-march-27>
- Note from submitter: Levels of testing remain impossibly low - scale of outbreak in DC is unknown.

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RESOURCES: DECISION-SUPPORT TOOLS, CALCULATORS, TREATMENT ALGORITHMS

Health System Capacity Calculator

- <https://www.medrxiv.org/content/10.1101/2020.03.25.20043711v1>
- Estimating the maximum daily number of incident COVID-19 cases manageable by a healthcare system
- Note from submitter: The COVID-19 Acute and Intense Resource Tool (CAIC-RT) is an interactive online tool capable of estimating the maximum daily number of incident COVID-19 cases that a healthcare system could manage given age-based case distribution and severity.

PPE Burn Rate Calculator

- <https://www.cdc.gov/coronavirus/2019-ncov/hcp/ppe-strategy/burn-calculator.html>
- Note from submitter: CDC - 3/25/2020 Spreadsheet-based model that provides information for healthcare facilities to plan and optimize the use of PPE for response to coronavirus disease 2019 (COVID-19)

Society of Clinical Care Medicine: Surviving Sepsis Recommendations

- https://journals.lww.com/ccmjournal/Abstract/onlinefirst/Surviving_Sepsis_Campaign_Guidelines_on_the.95707.aspx
- Note from submitter: SCCM recommendations on management of critically ill adults with Covid-19 released March 27, 2020.

Clinical Decision Support Tool: Covid-19 Patient Severity Scoring Tool

- <https://surgisphere.com/research-tools/severity.php>
- Note from submitter: This is a clinical decision support tool developed by a commercial global health care collaborative based on patient data on over 20,000 COVID patients from the >1,000 hospitals world-wide (85% US/Europe). Our (GW's) evaluation of this tool is that the accuracy numbers sound quite good, although their validation sample was small so it's not clear that this was fully validated. While the predictors intuitively make sense, not sure about the classification.

PUBLIC HEALTH INTERVENTIONS

Health Informatics Support for Outbreak Management in an Academic Health System

- <https://doi.org/10.1093/jamia/ocaa037>
- Note from submitter: To describe the implementation of technological support important for optimizing clinical management of the COVID-19 pandemic.