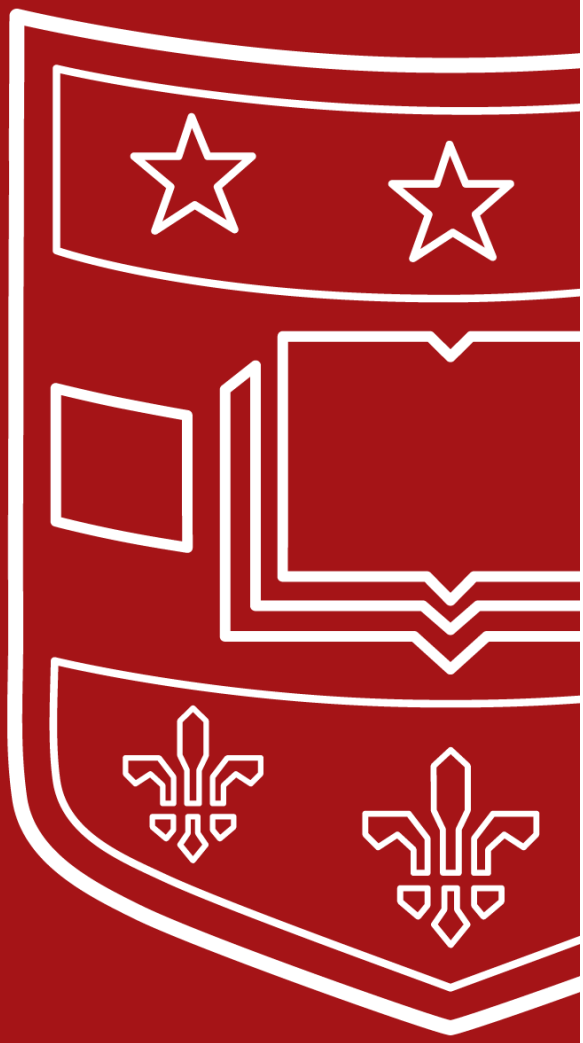
Student COVID-19 Response

Literature Reviews



Week of April 5, 2020

Generated and compiled by Washington University School of Medicine medical and graduate students

WashU Med Student Coronavirus Response Literature Reviews

Biology

The architecture of SARS-CoV-2 transcriptome

- Transcriptomic features and RNA modifications of SARS-CoV-2.

Structure of the RNA-dependent RNA polymerase from COVID-19 virus

- Cryo-EM structure of a component of viral replication machinery.

Epidemiology

Characteristics of and lessons from the COVID-19 outbreak in China

- Summary report of 72,314 cases of COVID-19 from the Chinese Center for Disease Control and Prevention.

Hospitalization rates and hospitalized patient characteristics in 14 states

- Hospitalization rates in the United States increase with age and are among the highest among older adults. Most hospitalized patients have underlying conditions.

Diagnosis & Prevention

Pooled screening for the detection of community transmission

- Pooled screening may be a useful strategy for identifying early community transmission.

Association of public health interventions with COVID-19 transmission

- Tracking the temporal relationship between estimated reproduction number and public health interventions suggests significant decrease in coronavirus transmissibility in the setting of city-wide lockdown and further decrease with improved medical resources.

Containment explains growth of COVID-19 pandemic in China

- Containment strategies spurned the COVID-19 outbreak in China.

Treatment

Remdesivir for patients with severe COVID-19

- Clinical improvement observed in some critically-ill patients with COVID-19 receiving compassionate use of remdesivir.

Prognosis

Clinical characteristics of hospitalized patients with COVID-19 in China

- Suspected high nosocomial transmission for COVID-19.

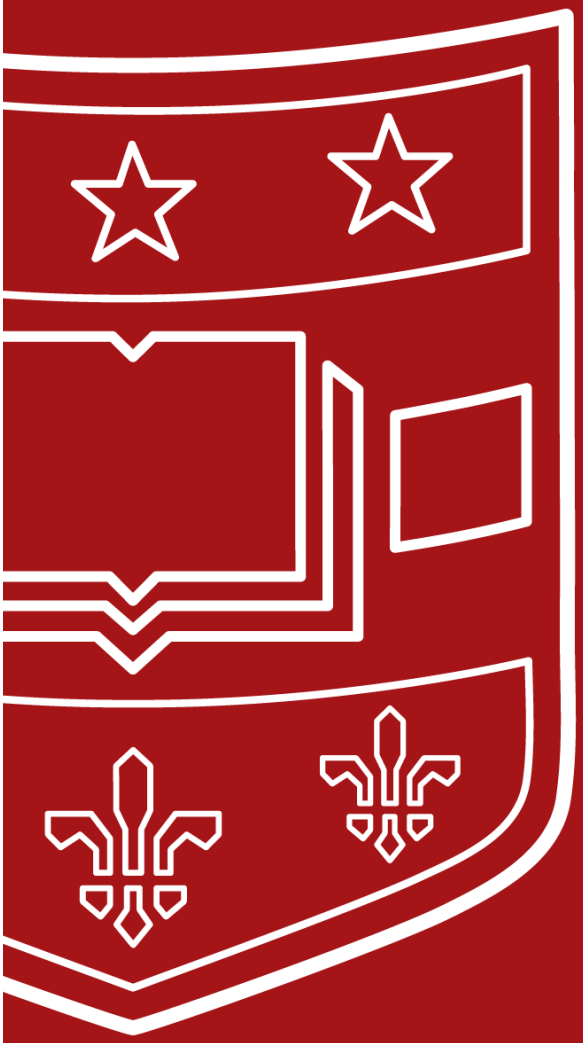
Legal, Ethics & Management

Restructuring a residency program during the COVID-19 pandemic

- Residents were split into teams that covered clinical, postop, and outpatient care on a rotating basis. These teams never physically interacted to prevent the spread of the virus from one team to another.

Literature Review Leadership Team

Derek Barisas, 3rd year MD/PhD student
Cyrus Ghaznavi, 2nd year MD student
Jared Goodman, 7th year MD/PhD student
Yiran Hou, 5th year PhD student



Student Volunteers

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