COVID-19 IN ADULTS WITH CONGENITAL HEART DISEASE

A study initiated by the Adult Congenital Heart Association in the United States and endorsed by the International Society for Adult Congenital Heart Disease

Study Investigators:
Craig Broberg MD
Adrienne Kovacs PhD
Jamil Aboulhosn MD

Study Coordinators:
Soraya Sadeghi
• Starting in March of 2020, a team from OHSU and UCLA set out to design and implement a global registry of COVID-19 in ACHD patients to address this profound gap in knowledge

• The ACHA played a key role in supporting a weekly zoom based discussion forum for providers in the United States focused on COVID related issues - it is from these discussions that the idea for a registry came into being

• Initially the plan was for this to be a US based registry of ACHA accredited centers, however, as discussions took place we decided to turn this into a global registry after we sought and received ISACHD endorsement
General Findings

719 patients in the cohort as of 12/2020-
86% of cases confirmed positive by PCR

570 (78%) from US
Age 35.8 ± 13.5 years
50% female
83 (11%) Fontan
65 (9%) Cyanotic
56 (8%) PH

US cohort only:
10% Black
24% Hispanic

COVID related death: 20/719 patients = 2.8%

ICU admission in 7.6%, intubation in 3.8%

Death resulted in 52% of intubated patients
CONCLUSIONS

• Anatomic classification does not appear to be associated with adverse outcomes in this cohort
• Physiologic classification is associated with adverse outcomes
• Risk factors with worse outcomes include: Older age, male gender, heart failure history, cyanosis, renal insufficiency, diabetes, pulmonary hypertension, and supplemental oxygen use