




International Society for
Adult Congenital Heart Disease

Adult
Congenital
Heart 
Association

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*

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Background

- 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

56 centers have contributed data

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

