Cardiovascular Disparities; COVID-19 and Beyond

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Duality of Risk

COVID-19 Outcomes by pre-existing disease





CV Complications of COVID-19





Interventions

- Supportive care
- Remdesivir (multiple ongoing clinical trials) monitor for CYP 3A/4 interactions (statins, other immunosuppressants)
- Chloroquine/Hydroxychloroquine (4 clinical trials) QT prolongation *particularly in blacks known to have longer baseline QTC and LVH*
- IL-6, Colchicine, Steroids
- Anticoagulants (critically-II)

COVID impact on CV care

Reduction in STEMI presentations by 38%

Reduction in HF hospitalizations (Mississippi) >20/week to <5. Decrease in brain imaging typically associated with stroke evaluation

Increase in at home deaths and possibly SCA from Italy and the US

<u>? Racial differences in healthcare utilization by race,</u> <u>technology based-care delivery, "emergent/urgent</u> <u>intervention) recent suggestions of bias/preference</u>

Patients are more likely to not seek care (calling 911), refuse EMS recommendations, and have care delayed.

Long-term Effect of COVID on CV disease Second wave • Interrupted CV care • Acute COVID-19 and preventative Morbidity and • Deferred and mortality services delayed urgent CV interventions Third wave First Wave

References

- Albert MA, Chin-Hong P, Haynes N, Alexander K, Cooper L, Ybarra M. At The Heart of the Matter: Unmasking the Invisibility of COVID-19 in Diverse Populations Webinar. Association of Black Cardiologists (ABC). April 8th 2020. ABCardio.org. http://abcardio.org/covid19-webinar/. Accessed April 8th 2020.
- Yancy, CW COVID-19 and African Americans. JAMA https://jamanetwork.com/journals/jama/fullarticle/10.1001/jama.2020.6548?utm_campaign=articlePDF%26utm_mediu m=articlePDFlink%26utm_source=articlePDF%26utm_content=jama.2020.6548
- Loungani, RS, Rehorn, MR, Newby, LK, et al. A Care Pathway for the Cardiovascular Complications of COVID-10: Insights from an institutional response. American Heart Journal
- Patel, Loungani, Granger Medicine grand rounds. May 15, 2020