



If your loved one was hospitalized with a COVID-19 infection, which of these would you want for them?

All the treatments possible. I would want everything!

Treatment based on what their symptoms are.

None of the current treatments. Evidence is everything.

Treatments that sound cool. Baricitinib anyone?

Therapies for hospitalized patient

NO oxygen requirement

Oxygen requirement

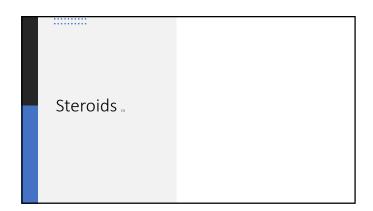
- ** tonvalescent plasma
- ** Remdesivir
- ** ** Barricttinib
- ** Tocilizumab

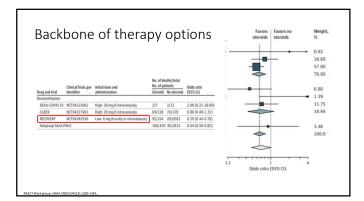
- ** Steroids
- ** Convalescent plasma
- ** Barricttinib
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Jose 62 yo male

PMH – HTN, HLD, CAD, DMII
Presented with shortness of breath and fever
Diagnosed with COVID-19
Labs were within normal limits
Chest Xray showed bilateral airspace disease
O2 saturations >94% on room air



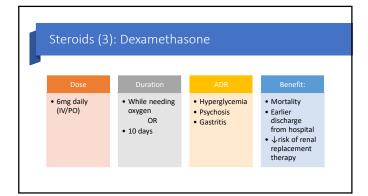


Why do we use it?

RECOVERY trial

- Dexamethasone resulted in a 28-day mortality reduction
 - Mechanically ventilated 29.3% vs 41.4% (0.64:95% CI 0.51-0.81)
 - NINIT Q
 - Oxygen 22.9 vs 25.7% (0.82: 95% CI 0.72-0.94)
 - NNT 36
 - No oxygen requirement Not helpful
- Secondary outcomes
 - Improved hospital discharge at 28 days
 - ullet chance of renal replacement therapy

RECOVERY, NEJM 2021-384(8), 693-



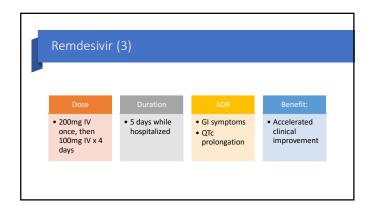
Agatha 92 yo female PMH – Dementia, HLD, HTN Diagnosed with COVID in the ED 7 days later returned with worsening agitation and SOB Labs notable for AKI and mildly elevated COVID labs CT chest showed bilateral ground glass opacities Saturations of 91% on RA with tachypnea Placed on 2L of O2

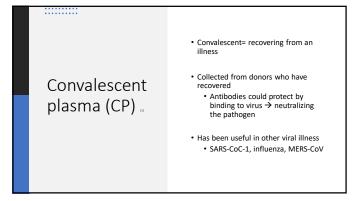
Backbone (#2) of therapy options Available October 1, 2020 as an Emergency Use Authorization Developed in 2009 for Ebola use MOA: inhibits the transcription of viral RNA

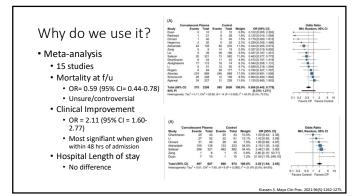
Why do we use it?

- ACTT: 10 days of remdesivir had faster clinical improvement than standard of care
- 3 SIMPLE I: No difference between 10-day and 5-day therapy with remdesivir in hospitalized patient's with hypoxia
- 3 SIMPLE II: 5 days of remdesivir showed clinical improvement on day 11 vs. usual care clinical status improvement on day 15 in patients with moderate COVID infection

Beigel J. NEJM 2020;383:1813-182

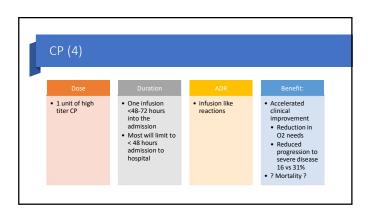


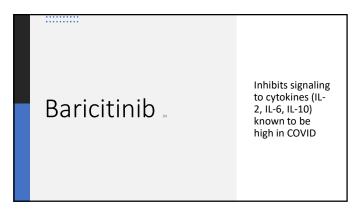


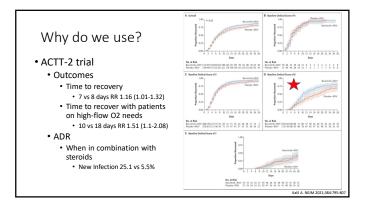


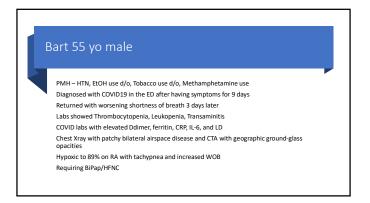
CP: Considerations(3)

- Differences in amount of titers in the specific plasma
 - The one study that showed mortality benefit had high Nab titers after plasma infusion (Duan et al)
- \bullet Differences in time to administration within disease process
 - Ranged from 1-20 days
 - Subgroup analysis showed improvement in mortality when given within 24-48 hours of hospital admission
 - Salazar et al showed infusion within 44 hours of admission had mortality benefit however benefit lost when >72 hours or intubated on day 0

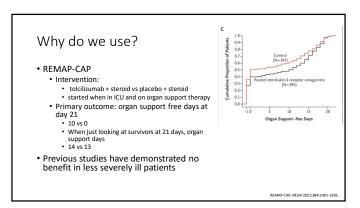


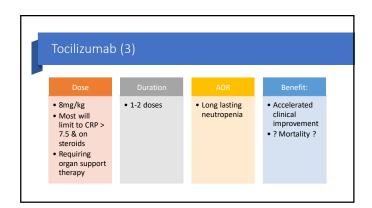


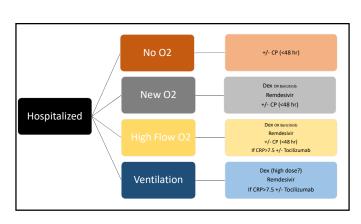




Tocilizumab Monoclonal antibody (MAB) so it inhibiting IL-6 receptor







Fielding
Questions from
Patients

- I was treated for COVID in the hospital. Can I get still the vaccine?

- Can/should I donate plasma after having COVID-19?

- Should I be getting azithromycin, hydroxychloroquine, famotidine, ivermectin, (enter other meds here)?

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More Information

• IDSA Guidelines on the Treatment and Management of Patients with COVID-19