

Objectives

1. Summarize the NIH/HHS recommendations regarding treatment of COVID-19
2. Describe the data regarding supplement use for treatment or prevention of COVID-19
3. Review the available tests to detect for presence of or immunity from COVID-19
4. State the potential role of pharmacists in testing for COVID-19

2



The Current Norm...

Rapid release of information

Hypotheses and loose associations turn into potential treatments

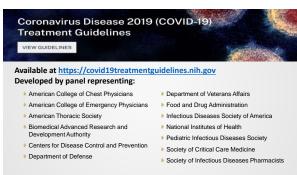
Pre-publication before completion of peer review

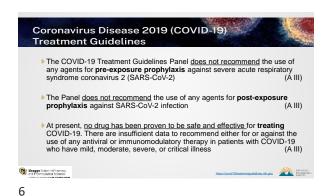
Recommendations from non-healthcare professionals

Pre-publication before review

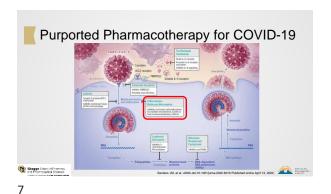
Recommendations from non-healthcare professionals

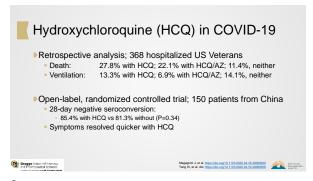
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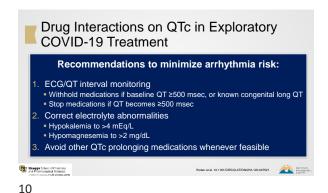


HCQ with Azithromycin

| Drug-Drug Interactions (1) | Drugs: Severity: Documentation: Summary:
| AZTHROMYCIN - | FYDROXYCH.OROQUINE SULFATE | Good | Concurrent use of PYDROXYCH.OROQUINE SULFATE | Good | Concurrent use of Concurr

9

11



Chloroquine (CQ)

Double-blind trial in hospitalized with severe COVID-19 randomized to
High-dose CQ: 600 mg twice daily x 10 days
Low-dose CQ: 450 mg twice daily day 1 then once daily x 4 days

Results:
Death at day 13: 39.0%, high-dose vs 15.0%, low-dose
To prolongation: 39.0%, high-dose vs 11.1%, low-dose

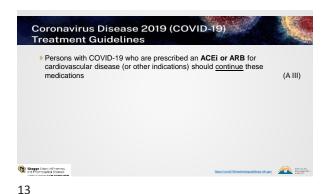
FDA Drug Safety Communication

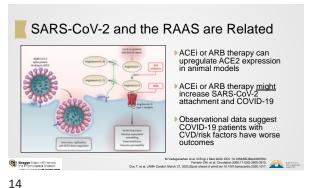
FDA cautions against use of hydroxychloroquine or chloroquine for COVID-19 outside of the hospital setting or a clinical trial due to risk of heart rhythm problems

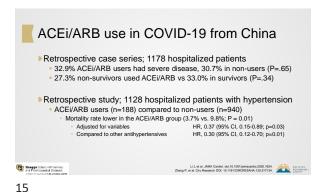
Close supervision is strongly recommended

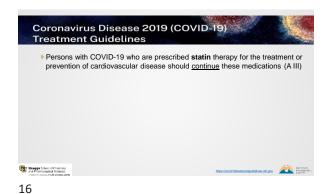
Safety Announcement [04-24-2020]

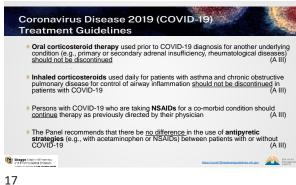
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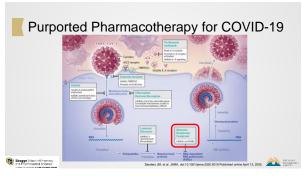


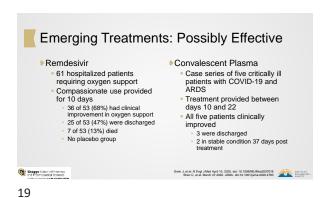


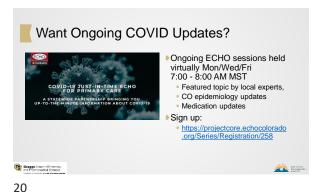




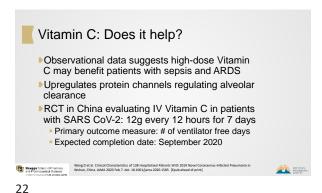








Supplements: Should we recommend them?



Vitamin C: Does it help?

BOTTOM LINE:

There is only observational data with high-dose IV vitamin C in ARDS

No evidence to support oral vitamin C can prevent or treat COVID-19

What about Vitamin D?

Metanalysis of 25 trials of patients with acute respiratory tract infections

NOT COVID-19 patients

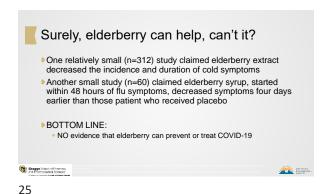
Daily or weekly dosing of vitamin D decreased the risk of respiratory track infection

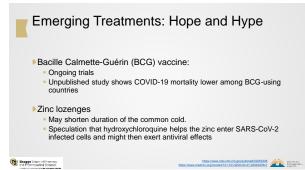
Most benefit seen in patients that had significant vitamin D deficiencies

The pandemic started during the winter when vitamin D levels are low

24

23





26



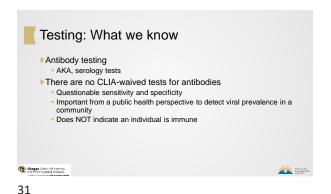
Testing

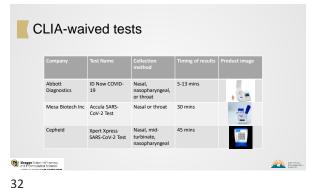
28



Testing: What we know Pharmacists may administer CLIA-waived tests, provided they have a CLIA waiver All current CLIA-waived tests (as of 4/29/20 at noon) are for detecting the presence of virus AKA, "molecular" or "PCR" Variable approaches Collection only (in partnership with a lab) Collection and testing Home testing CLIA waiver only needed if the pharmacy runs the test Skagge Echani of Pharmacy and Pharmacourtical Sciences

30





Other considerations

DORA/Governor's Communication (4/28/20)

Make sure to include appropriate patient identifiers on all specimens

State contacts:

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Alicia Conquist Chief of the Public Health Informatics, Reporting, and Refugee Branch (directoring) and R

Resources

HHS Pharmacist Guidance

https://www.hhs.gov/sites/default/files/authorizing-licensed-pharmacists-to-order-and-administer-covid-19-tests.pdf

COVID-19 Tests

https://www.360dx.com/coronavirus-test-tracker-launched-covid-19-tests

Antibody Tests

https://www.centerforhealthsecurity.org/resources/COVID-19/serology/Serology-based-tests-for-COVID-19.html#sec2

FDA

https://www.fda.gov/medical-devices/emergency-situations-medical-devices/emergency-use-authorizations#lvdnote1

34

Continuing Education

How to claim credit (pharmacists & pharmacy technicians)

1. Navigate to UCDenver.edu/pharmacy/continuingeducation
2. Select Online CE
3. Select Today's Webinar

Questions: sop.continuingeducation@cuanschutz.edu

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35