

Financial Relationships With Ineligible Companies (Formerly Described as Commercial Interests by the ACCME) Within the Last 2 Years

Dr Bender Ignacio has served as a consultant for AbbVie and Seagen. (Updated 9/23/21)

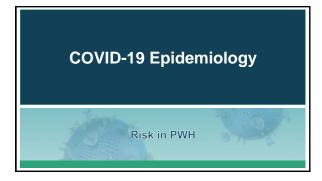
Slide 2 of 23

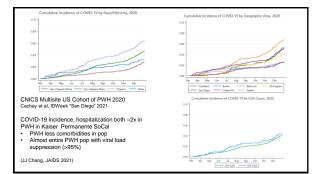
Learning Objectives

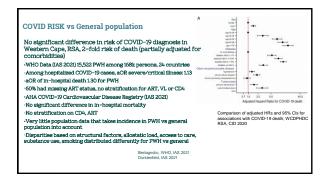
After attending this presentation, learners will be able to:

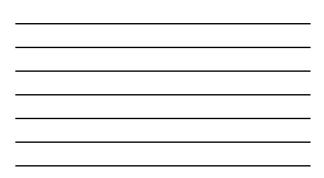
- Describe COVID-19 risks in people with HIV (PWH)
- Describe vaccination and prevention measures for PWH
- Describe COVID-19 treatment considerations for PWH

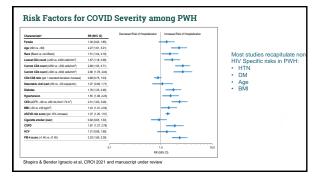
Slide 3 of 23













COVID Severity risk: CD4 & VL

•Across cohorts from early pandemic through the present, clear trends toward increased risk of severe outcomes with low CD4

-Some cohorts suggest current CD4 <350 as threshold, others at 200, but analysis dependent

•Concern for confounding by test date & SARS CoV-2 effect on lymphopenia (eg WCDPH used data from hospitalization)

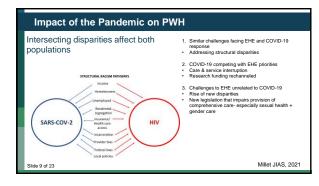
-Most large non-HIV specific datasets lack specificity on parameters of HIV treatment

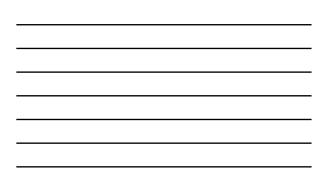
•Most PWH on ART in these cohorts

-CNICS: History of CD4 <200 $\,$ RR 1.67 and current CD4 <350 RR 2.68 for hospitalization, low CD4/CD8 ratio increases risk

Slide 8 of 23

WCDPH CID 2020; Vizcarra Lancet HIV 2020; Shapiro & Bender Ignacio, under revie





Influence of pandemic on HIV incidence

- · Models of service disruptions vs behavioral change/no change In Baltimore MSM model, 25% reduction in partners without
- change in services ↓ new diagnoses by 12.2% over a year Care interruption sans behavior change ↑ incidence by up to10.5%
- Combination of 25% fewer partnerships + care changes:
- Overall stable incidence
- Separate study- no change in capacity, less partnerships=> 50% reduction
- Could not rule out 9% increase in HIV .
- · Link SARS-COV-2 testing with opt-out HIV screening

Slide 10 of 23



Covid-19 Vaccines for PWH

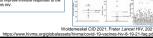
WHICH VACCINES: Vaccine with any EUA or approved vaccine (globally, WHO endorses + ChAdOx1 + Sinopharm, Sinovac) -Preference for mRNA vaccine if possible given multiple doses likely more important if compromised response

SAFETY: No evidence of safety concerns with mRNA or inactivated viral-vector vaccines for PWH EFFICACY: small studies show adequate response to mRNA and ChAdOx1 vaccine

BOOSTERS: for CD4 <200 or untreated only (more data pending)

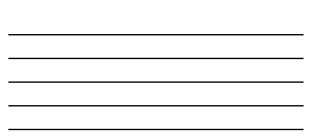
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ide 12 of 23
COVID-19 Vaccines and People with HIV
Frequently Asked Questions



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Post-exposure prophylaxis

FDA EUA for REGN –COV (casirivimab 600mg + imdevimab 600mg SQ or IV)
REGEN-COV may only be used as post-exposure prophylaxis for adults and pediatric individuals (12 years of age and older weighing at least 40 kg) who are:
 at high risk for progression to severe COVID-19, including hospitalization or death, and
 not fully vaccinated or who are not expected to mount an adequate immune response to complete SAB8-CoV-2 vaccination (for example, people with immunocompromising conditions, including those taking immunosuppressive medications), and
 have been exposed to an individual infected with SARS-CoV-2 consistent with close contact criteria per Centers for Disease Control and Prevention (CDC), or
For PWH: Not fully vaccinated or CD4 <200, previously described comorbidities or age
Slide 13 of 23



Ambulatory Covid treatment for PWH

- Not different from general population: Follow NIH and IDSA Guidelines
- Consider early treatment for PWH with risks for severe outcomes
 Onvaccinated
- CD4 <200 or untreated: possible non-response to vaccine Monoclonal Antibodies with EUA (REGN-COV or sotrovimab) Clinical research opportunities
- Apart from mAb, no other authorized/approved treatments for COVID-19 in non-hospitalized patients
 Discourage unproved therapies or ART change unless within a high-quality

study lide 15 of 23

Inpatient management of COVID-19

- Do not withhold immunomodulators or immunosuppressants (IL-6 antagonists, dexamethasone) in hospitalized PWH • These are being widely used in other immunocompromised populations
- Remdesivir for early-hospitalized (mod/severe)
- Add dexamethasone + baricitinib or anti-IL-6 for 02 requirement-> ICU No RDV for critical illness
- May be indications for antithrombotics in some sub-populations
- No difference for hospitalized PWH

ide 16 of 23

ART in COVID-19 Treatment/prevention

No clinical evidence of benefit of LPV/r, TDF, or other ARVs against SARS-CoV-2

Do not change ART regimens for PWH with COVID-19 in most cases New dir nhibitor antivirals include ritonavir boost ased on drug/drug interactions or duplication Hospitalized COVID-19 patients: Continue

· Initiate ART once clinically stabilized, prior to hospital discharge similar to ART initiation during OI manage

Slide 17 of 23

COVID-19 studies inclusive of PWH (US)

- https://combatcovid.hhs.gov/clinicaltrials ACTIV-2: Monoclonal antibodies and other therapies
- ACTIV-6 Repurposed drugs: https://activ6study.org/ MOVe-AHEAD Molnupiravir for post-exposure prophylaxis (PEP). NCT04939428

(list not exhaustive)

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Slide 18 of 23

Current knowledge gaps

- Initial vaccine vaccine responses for mRNA and Ad-vectored vaccines (global) for PWH and unsuppressed VL or CD4 <200
- Real world effectiveness of COVID-19 vaccines in people with untreated/advanced HIV
 - Moving target with variants, geography, different vaccine types
- Real risks of COVID-19 severity in PWH not on ART, unsuppressed VL
 Most analyses either include complete ascertainment of PWH retained in care vs incomplete data for general populations

Slide 19 of 23

Innovations in HIV care during COVID-19

- Better access to care and ART
 - Much of insurance/ADAP renewal process streamlined
 - 90 day prescriptions for many insurance groups
 - Mail order med increase
 - Telehealth + across state lines
- CARES Fund
 - Improved funding for telehealth/connectivity tech
 - · Co-pay coverage, safe transport, vouchers
- · Many innovations already retreating
 - Advocate to keep telehealth reimbursement, improved ART

delivery etc

Helpful Resources

- Woldemeskel CID 2021; Frater Lancet HIV, 2021
- https://www.hivma.org/globalassets/hivma/covid-19-vacines-hiv-8-19-21faq.pdf
- <u>https://combatcovid.hhs.gov/clinicaltrials</u>

e 21 of 23

- https://www.idsociety.org/covid-19-real-time-learning-network/specialpopulations/hiv/#KL
- https://www.covid19treatmentguidelines.nih.gov/
 Wendy S Armstrong, et al *Clinical Infectious Diseases*, 14, https://doi.org/10.1093/cid/ciaa1532

Armstrong et al, CID 2020



