

# COVID-19, HIV, and Housing Instability

December 17, 2020



## Housekeeping

- In order to speak on the call, you will need to call in. Conference call-in number: 1-866-814-9555; participant passcode: 723 288 1431.
- All phone lines have been muted.
- During the Q&A portion, you may unmute your phone line by pressing #6. You can also use the participant chat to ask questions.
- The recording and presentation slides will be added to the aidsetc.org website as a resource.



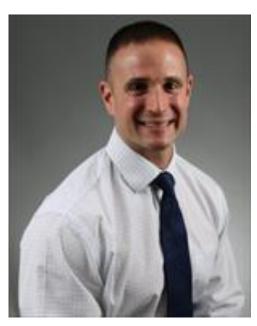
## **Speakers**



MarkAlain Déry, DO, MPH, FACOI



Melody Barr



Brett J. Feldman, MSPAS, PA-C



MarkAlain Déry, DO, MPH, FACOI Infectious Disease Physician and Epidemiologist Chief Innovation Officer Access Health Louisiana Director Ryan White Part A and F Access Health Louisiana



## **Disclosures**

No conflict of interests to disclose





## **Objectives**

- Recognize the increasing morbidity, mortality, and hospitalization associated with COVID-19 in the U.S.
- Conclude that there is not much difference in the incidence of or clinical manifestations of persons with HIV (PWH) compared with those who do not have HIV infection
- Determine that evictions for PWH are deleterious to maintaining health
- Acknowledge an impending eviction crisis at the end of 2020 that can significantly increase COVID infections, especially for PWH





### U.S. Case Counts



### Coronavirus Cases:

17,143,779

Deaths:

311,068

Recovered:

10,007,853

#	USA State	Total Cases ↓₹	New Cases	Total Deaths 🎵	New Deaths 11
	USA Total	17,143,779	+199,875	311,068	+2,976

About 2 people died/minute in the past 24 hours





## **Tracking Our COVID-19 Response**

Each state's progress towards a new normal





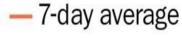
**Poorly** 

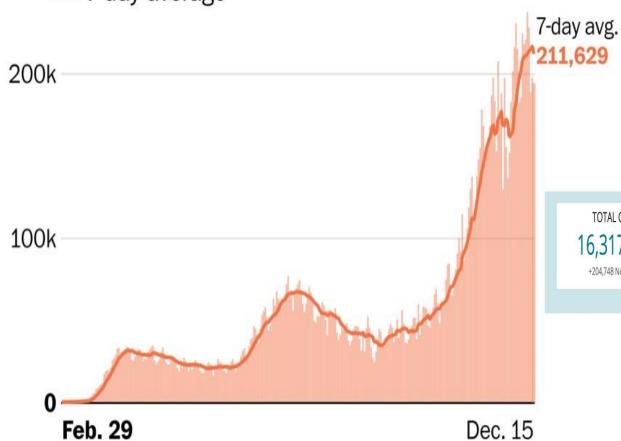
Better











TOTAL CASES AVERAGE DAILY CASES PER 100K TOTAL DEATHS 16,317,892 300,032 IN LAST 7 DAYS 65.3 +204,748 New Cases +1,766 New Deaths CDC | Updated: Dec 15 2020 12:17PM

Dec. 15



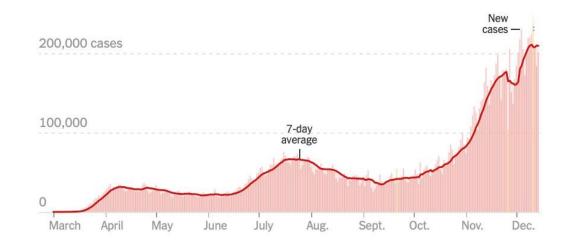
Data as of 10:10 p.m. ET.

https://www.washingtonpost.com/coronavirus/?hp\_top\_nav\_coronavirus  $https://covid.cdc.gov/covid-data-tracker/\# cases\_casesper 100 klast7 days$ 



## U.S. Daily Case Counts

Updated December 15, 2020, 9:35 P.M. E.T. Leer en español



	TOTAL REPORTED	ON DEC. 14	14-DAY CHANGE
Cases	16.7 million+	201,073	+31% →
Deaths	303,856	1,678	+65% →
Hospitalized		110,549	+18% →

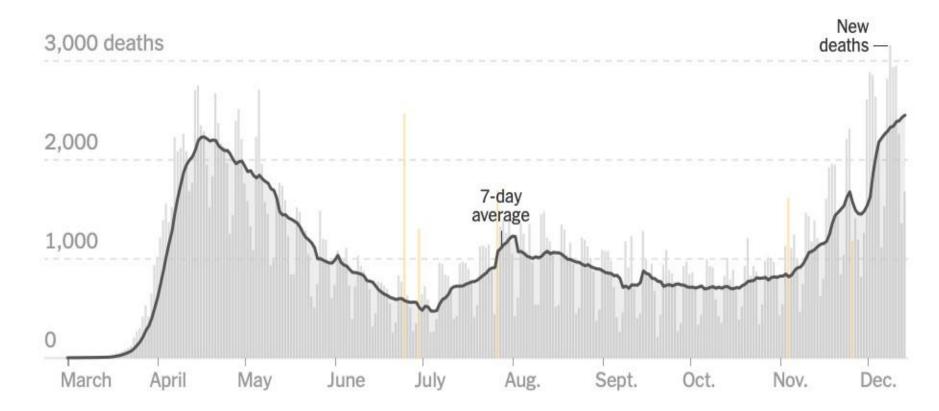


Day with reporting anomaly. Hospitalization data from the Covid Tracking Project; 14-day change trends use 7-day averages.



## U.S. Daily Mortality Counts

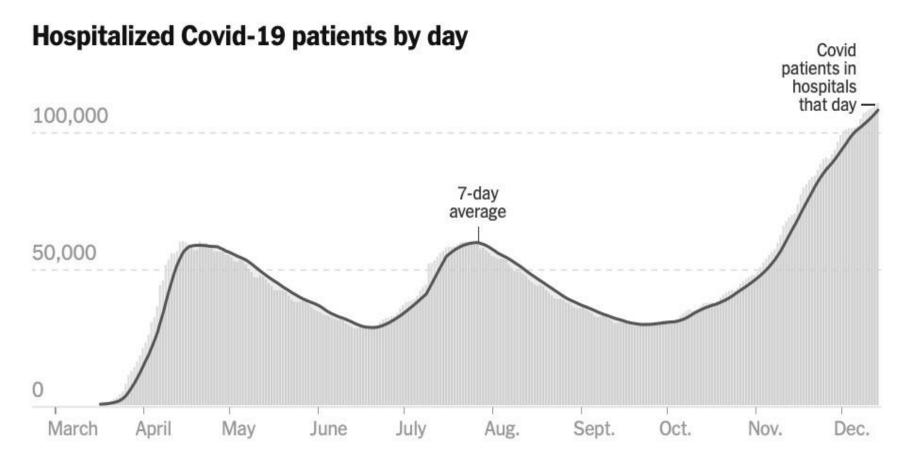
### New reported deaths by day







## U.S. Daily Hospital Counts





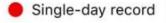


#### NATIONWIDE COVID-19 METRICS. 7-DAY AVERAGE LINES

Apr 1 - Dec 14



Source: The COVID Tracking Project









#### **Could PWH Have Worse Outcomes With COVID-19?**

#### Theoretically, yes

- PWH (especially those with low CD4+ cell counts and high viral loads) are immunosuppressed, a risk factor for ARDS in other viral infections<sup>[1]</sup>
- However, immunosuppression is not a clear risk factor for severe COVID-19<sup>[2]</sup>
- PWH have an increased frequency of some of the known risk factors associated with severe COVID-19<sup>[3]</sup>
  - Almost 50% of PWH in the US are aged ≥ 50 yrs<sup>[4]</sup>
  - PWH have a higher rate of cardiovascular disease and pulmonary disease, including chronic obstructive pulmonary disease, than the general population<sup>[5,6]</sup>
  - Higher rates of poverty and marginal housing among safety-net populations<sup>[7]</sup>

1. <u>Cortegiani</u>. <u>Crit</u> Care. 2018;22:157. 2. CDC. People with certain medical conditions. Updated August 14, 2020. 3. CDC. CDC updates, expands list of people at risk of severe COVID-19 illness. June 25, 2020. 4. CDC. HIV and older Americans. Reviewed November 12, 2019. 5. <u>Triant</u>. <u>Curr HIV/AIDS</u> Rep. 2013;10:199. 6. Fitzpatrick. AIDS. 2018;32:277. 7. <u>Shiau</u>. AIDS <u>Behay</u>. 2020;24:2244.





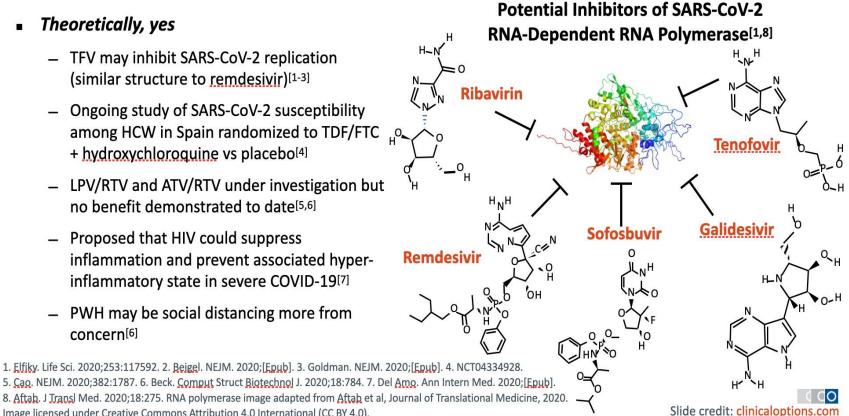


#### **Could PWH Have Better Outcomes With COVID-19?**

#### Theoretically, yes

- TFV may inhibit SARS-CoV-2 replication (similar structure to remdesivir)[1-3]
- Ongoing study of SARS-CoV-2 susceptibility among HCW in Spain randomized to TDF/FTC HO. + hydroxychloroguine vs placebo<sup>[4]</sup>
- LPV/RTV and ATV/RTV under investigation but no benefit demonstrated to date[5,6]
- Proposed that HIV could suppress inflammation and prevent associated hyperinflammatory state in severe COVID-19[7]
- PWH may be social distancing more from concern<sup>[6]</sup>

Image licensed under Creative Commons Attribution 4.0 International (CC BY 4.0).







### Early Data on COVID-19 in Persons With HIV in NYC

- Retrospective observational study of patients hospitalized with COVID-19 in NYC between March 2, 2020, and April 23, 2020
  - PWH matched to persons without HIV by admission date, age, BMI, sex, tobacco history, and CKD history

Outcome	PWH (n = 21)	HIV Uninfected (n = 42)	P Value
Median length of hospital stay, days (IQR)	6 (4-13)	5 (3-10)	.262
ICU admission, n (%)	6 (28.6)	7 (16.7)	.271
Invasive ventilation, n (%)	5 (23.8)	5 (11.9)	.223
Abnormal chest x-ray, n (%)	19 (90.5)	27 (64.3)	.027
Myocardial infarction, n (%)	1 (4.8)	1 (2.4)	.152
Pulmonary embolism, n (%)	1 (4.8)	1. (2.4)	.611
Deep vein thrombosis, n (%)	1 (4.8)	1 (2.4)	.611
Died or transferred to hospice, n (%)	6 (28.6)	10 (23.8)	.682

Karmen-Tuohy. J Acquir Immune Defic Syndr. 2020;85:6.

Slide credit: clinicaloptions.com





## Incidence and Severity of COVID-19 in Persons With HIV Receiving ART in Spain

- One of largest studies to date of HIV and COVID-19
- Of 77,590 PWH receiving ART, 236 were diagnosed with COVID-19 in February – April 2020
  - 151 were hospitalized, 15 admitted to the ICU
  - 20 died
- HIV did not increase susceptibility to SARS-CoV-2 and did not increase outcome severity of COVID-19
- Effect of ART?

Del Amo. Ann Intern Med. 2020; [Epub].







## Risk and Outcomes of COVID-19 in Persons With HIV **Receiving ART in Spain**

Patients receiving TDF (but not TAF) had BETTER outcomes: Is TDF protective or are those receiving TDF healthier (due to propensity to switch patients with comorbidities to TAF)?

Risk per 100,000 Persons Among PWH Receiving ART (95% CI)		PCR-Confirmed COVID-19 Diagnosis	COVID-19 Hospital Admission	COVID-19 ICU Admission	COVID-19 Death
Overall		30.4 (26.7-34.6)	19.5 (16.5-22.8)	1.9 (1.1-3.2)	2.6 (1.6-4.0)
Standardized	*	30.0 (29.8-30.2)	17.8 (17.7-18.0)	2.5 (2.4-2.6)	3.7 (3.6-3.8)
Sex	<ul><li>Men</li><li>Women</li></ul>	35.1 (30.4-40.3) 16.4 (11.2-23.2)	23.4 (19.6-27.7) 7.7 (4.3-12.7)	2.1 (1.1-3.6) 1.5 (3-4.5)	2.8 (0.6-4.5) 2.1 (0.6-5.3)
Age, yrs	<ul> <li>20-39</li> <li>40-49</li> <li>50-59</li> <li>60-69</li> <li>70-79</li> </ul>	28.3 (20.3-38.3) 27.9 (20.9-36.4) 26.3 (21.0-32.5) 38.8 (26.9-54.2) 83.7 (52.4-126.7)	10.3 (5.8-17.6) 20.1 (14.3-27.5) 16.7 (12.6-21.8) 27.4 (17.6-40.8) 72.3 (43.5-112.9)	0.7 (0-3.8) 0.5 (0-2.9) 2.2 (0.9-4.5) 4.6 (1.2-11.7) 7.6 (0.9-27.5)	0 ( -2.9)† 1.0 (0.1-3.7) 2.2 (0.9-4.5) 4.6 (1.2-11.7) 26.6 (10.7-54.9)
NRTI	<ul><li>FTC/TDF</li><li>FTC/TAF</li><li>ABC/3TC</li><li>Other regimens</li></ul>	16.9 (10.5-25.9) 39.1 (31.8-47.6) 28.3 (21.5-36.7) 29.7 (22.6-38.4)	10.5 (5.6-17.9) 20.3 (15.2-26.7) 23.4 (17.2-31.1) 20.0 (14.2-27.3)	0 ( -2.9)† 2.7 (1.1-6.5) 3.0 (1.1-6.5) 1.0 (0.1-3.7)	0 ( -2.9)† 3.9 (1.9-7.2) 4.0 (1.7-7.8) 1.0 (0.1-3.7)

<sup>\*</sup>Standardized by age and sex of general Spanish population aged 20-79 yrs. †1-sided 97.5% CI.

Del Amo. Ann Intern Med. 2020; [Epub].



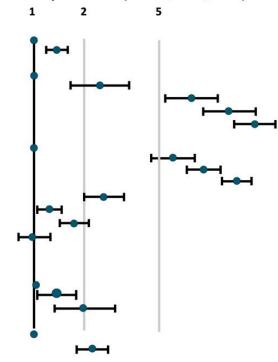
Slide credit: clinicaloptions.com



## COVID-19 and HIV: Routine Public Sector Data in Western Cape, South Africa

Evaluated factors among all adult public sector patients (N = 3,460,932)

Patient Characteristics	Adjusted HR	95% CI
Sex	2009);	
Female	1.00	
Male	1.45	1.23-1.70
Age		
20-39 yrs	1.00	
40-49 yrs	2.83*	1.92-4.15
50-59 yrs	7.78*	5.51-10.98
60-69 yrs	11.54*	8.11-16.42
≥ 70 yrs	16.79*	11.69-24.11
Noncommunicable diseases		
None	1.00	
Diabetes well controlled (A1C < 7%)	5.37*	3.96-7.27
Diabetes poorly controlled (A1C 7-8.99	6) 8.53*	6.60-11.02
Diabetes uncontrolled (A1C ≥ 9%)	12.07*	9.70-15.02
Diabetes, no measure of control	2.91*	2.18-3.89
Hypertension	1.31 <sup>+</sup>	1.09-1.57
Chronic kidney disease	1.86*	1.46-2.33
Chronic pulmonary disease	0.93	0.73-1.17
Tuberculosis		
Never tuberculosis	1.00	
Previous tuberculosis	1.51‡	1.18-1.93
Current tuberculosis	2.70*	1.81-4.04
HIV		
Negative	1.00	
Positive	2.14	1.70-2.70*
* $P < .001$ . ${}^{\dagger}P = .004$ . ${}^{\dagger}P = .001$ .		



22,308 total persons diagnosed with COVID-19; 3978 PWH diagnosed with COVID-19

Standard mortality ratio for COVID-19 death with vs without HIV: 2.39 (95% CI: 1.96-2.86)

Adjusted HR for COVID-19 Death

Slide credit: clinicaloptions.com



Boulle, CID, 2020; [Epub].



#### **Overall Conclusion**

 In US, HIV does not increase susceptibility to COVID-19 or severe outcomes

"The available literature suggests that, at least in Europe and North America, HIV does not increase the risk for SARS-CoV-2 infection or predispose to poor outcomes from COVID-19. Most of the studies document a high prevalence of <u>comorbidities</u> among persons with HIV with severe COVID-19, suggesting that this may be the major driver of morbidity and mortality just like it is among persons without HIV. The study from South Africa is concerning, and future studies will be important to determine if HIV is a risk factor for increased COVID-19 mortality in low- and middle-income countries."[1]

"Taken together, a picture emerges that there is not much difference in the incidence or clinical manifestations of PLWH compared with those who do not have HIV infection."[2]

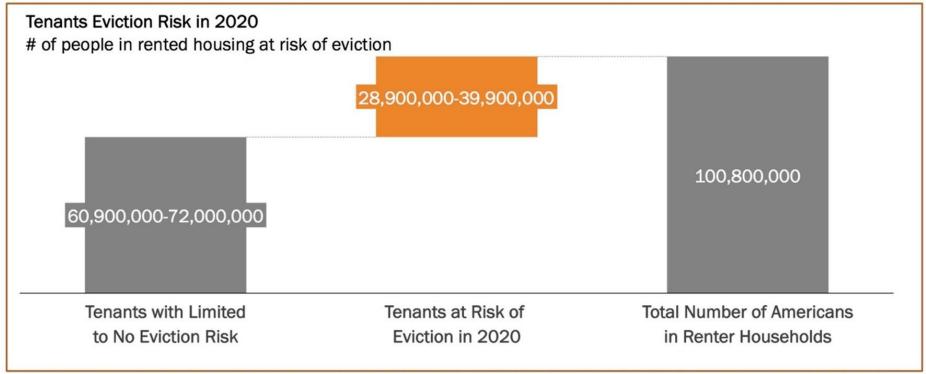
1. del Rio. NEJM Journal Watch. August 11, 2020. Available at: https://www.jwatch.org/na52137/2020/08/11/covid-19-persons-living-with-hiv-what-do-we-know-today. 2. Saag. AIDS. 2020;34:1755.







#### AN ESTIMATED 30-40 MILLION RENTERS COULD BE AT RISK OF EVICTION



The chart above reflects the analysis of the Aspen Institute Financial Security Program / COVID-19 Eviction Defense Project (CEDP) as it relates to renters with No or Slight Confidence in the ability to pay next month's rent as well as the analysis of additional renters with a Moderate Confidence in the ability to pay next month's rent completed by Stout Risius Ross, LLC. Independent analysis by Stout Risius Ross, LLC of renters reporting No or Slight Confidence in the ability to pay next month's rent align with Aspen Institute-CEDP methodology above.

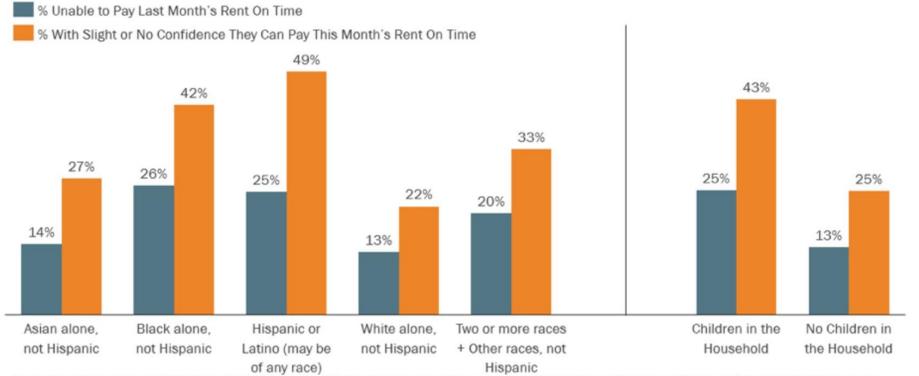




## EVICTION RISK DISPROPORTIONATELY IMPACTS BLACK AND LATINX RENTERS, AND RENTERS WITH CHILDREN

#### Housing Insecurity, by Hispanic Origin and Race

Housing Insecurity, by Family Type



Source: Census Bureau Household Pulse Survey, Week 12 Tables 1b and 2b. The Census Bureau defines a household as housing insecure if they have slight or no confidence in their ability to pay next month's rent on time or did not pay this month's rent on time.





Table 1. Increased Negative Health Consequences Due to Eviction

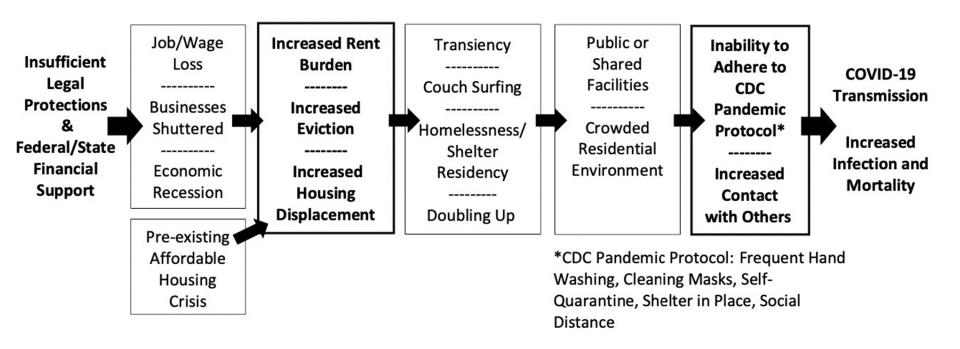
Physical Health	Mental Health	Associated Conditions Among Women	Associated Conditions Among Children	Exposure to Sub-Standard Living Conditions
<ul> <li>Higher         Mortality Rate</li> <li>Respiratory         Conditions</li> <li>High Blood         Pressure</li> <li>Poor Self-Rated         General Health</li> <li>Coronary heart         Disease</li> <li>Sexually         Transmitted         Infections</li> <li>Drug Use</li> </ul>	<ul> <li>Depression</li> <li>Anxiety</li> <li>Mental Health Hospitalization</li> <li>Exposure to Violence</li> <li>Suicide</li> </ul>	<ul> <li>Physical Assault</li> <li>Sexual Assault</li> <li>Drug Use and Related Harms</li> <li>Pre-term Pregnancies</li> <li>Future Housing Instability</li> </ul>	<ul> <li>Lead Poisoning</li> <li>Academic Decline</li> <li>Food Insecurity</li> <li>Emotional Trauma</li> <li>Risk of Chronic Disease in Adulthood</li> <li>Low Birthweight</li> <li>Decreased Life Expectancy</li> </ul>	<ul> <li>Lead</li> <li>Mold</li> <li>Poor Ventilation</li> <li>Pest Infestations</li> <li>Crowding</li> </ul>

Benfer, E, et al; Health Inequity, & the Spread of COVID-19: Housing Policy as a Primary Pandemic Mitigation Strategy11/1/20. Journal of Urban Health





Figure 1. Eviction Increases the Risk of COVID-19 Acquisition and Transmission



Benfer, E, et al; Health Inequity, & the Spread of COVID-19: Housing Policy as a Primary Pandemic Mitigation Strategy11/1/20. Journal of Urban Health





## Evictions Raise COVID-19 Risk for Infection and Mortality

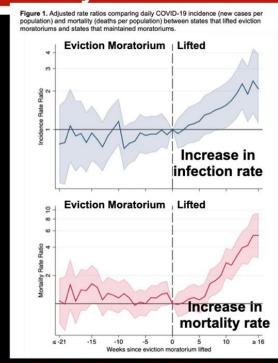
### PrePrint

- Do evictions play a role in COVID-19 infection and mortality?
- In this study the authors looked at the 43 states that temporarily barred evictions.
  - Many of the moratoriums lasted just 10 weeks, while some states continue to ban the proceedings.

#### FINDINGS;

 Lifting state moratoriums and allowing eviction proceedings to continue caused as many as 433,700 excess cases of Covid-19 and 10,700 additional deaths in the U.S. between March and September.

Leifheit, K; et al. Expiring Eviction Moratoriums & COVID-19 Incidence & Mortality 11/30/20



Bottom Line; The CDC moratorium is set to expire at the end of the year. State and federal policymakers need to extend these protections to make sure that families can stay safe.







https://evictionlab.org/eviction-tracking/





They filed for

**3,526** evictions

last week.

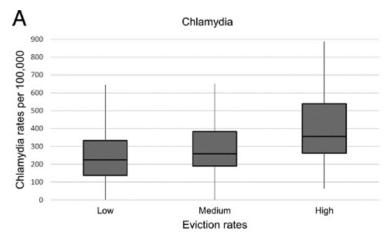
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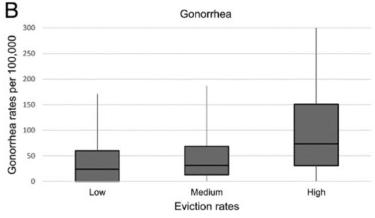
Data current as of December 12, 2020

The COVID-19 pandemic has deepened America's housing crisis. The nation's most severe public health emergency in a century may cause large spikes in eviction and homelessness. In response, we have created the Eviction Tracking System to monitor weekly updates on the number of eviction cases being filed across the United States. Scroll down to view full reports on the cities in which we are operating, and to learn more about the project.









**Figure 1.** Box plots of chlamydia rates (A) and gonorrhea rates (B) in 2015 by eviction rate categories in 2014 in United States countries (n = 2500).

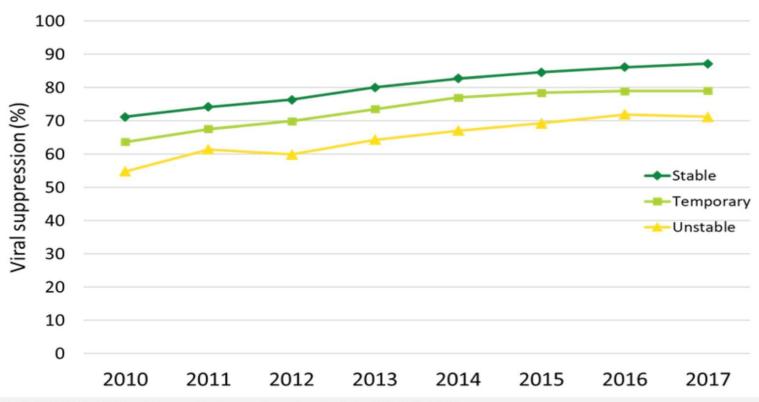
- County-level associations between eviction rates in 2014 & rates of CT/GC in the following year.
- Higher rates of CT/GC in counties with higher rates of eviction.
- "County-level eviction rates are associated with chlamydia and gonorrhea rates in a significant and robust way independent of other known predictors of STI."



Niccola, et al; Sexually Transmitted Diseases • Volume 46, Number 1, January 2019

### Housing Instability Affects HIV Viral Load

Viral Suppression, Clients Served by RWHAP, by Housing Status, 2010–2017—U.S. and 3 Territories



Credit: RWHAP Client HIV Care Outcomes: Viral Suppression, by Housing Status - 2017 [PPT, 1.6MB]





Table II

Crude and adjusted longitudinal estimates of the odds of detectable plasma HIV-1 RNA viral load<sup>a</sup> among 705 ART<sup>b</sup>-experienced people who use drugs, Vancouver, Canada, 2007–2014

	Unadjusted		Adjusted	
Characteristic	Odds Ratio (95% CI <sup>c</sup> )	p - value	Odds Ratio (95% CI <sup>c</sup> )	p - value
Evicted <sup>C</sup>				
(evicted and homeless vs. not evicted)	3.14 (1.71 – 5.78)	< 0.001	2.25 (1.18 – 4.29)	0.013
(evicted and not homeless vs. not evicted)	1.79 (1.25 – 2.55)	0.002	1.76 (1.17 – 2.63)	0.006

- Researchers looked at the relationship between evictions and HIV transmission.
- They found that evictions made it harder for people to adhere to ARTs.





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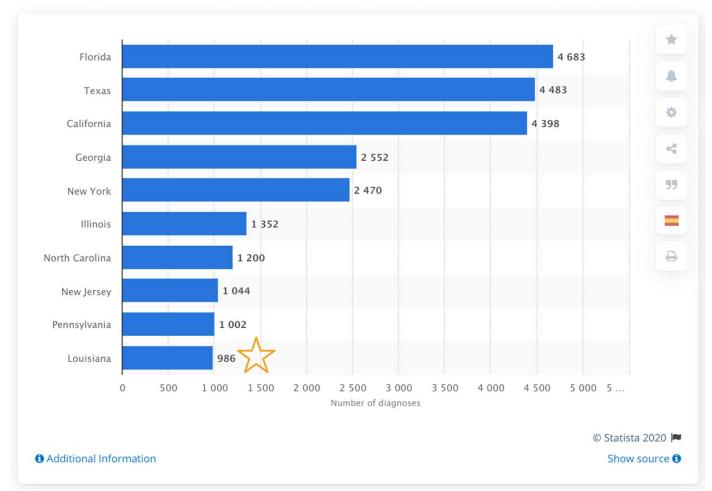
- Researchers looked at the relationship between evictions and HIV transmission.
- They found that evictions made it harder for people to adhere to ARTs.
- The authors concluded that "eviction independently increased the odds of detectable" HIV viral load among study participants who experienced eviction.





#### Health, Pharma & Medtech > State of Health

#### U.S. states with the highest number of HIV diagnoses in 2018







#### EVICTION LAB

#### COVID-19 HOUSING POLICY SCORECARD > LOUISIANA

STATE

RENTING POPULATION

LOUISIANA

1,502,811

**RATING** 



State score: 0.00/5.00

Lousiana's executive order halting some parts of the eviction court process has expired, and eviction filings and hearings can proceed. Without further action and supportive measures, Louisiana could see

a surge of evictions immediately following the pandemic.

See a full list of executive, legislative, and court orders.

Last updated 10/22/2020

**RESOURCES FOR TENANTS** 

PRINT PDF

https://evictionlab.org/covid-policy-scorecard/la/





#### **EVICTION LAB**

#### HOME > COVID-19 HOUSING POLICY SCORECARD > LOUISIANA

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#### INITIATION OF EVICTION

#### X No notice to quit @

Landlords in Louisiana can still give notice of eviction to tenants.

#### X No filing for nonpayment

Landlords in Louisiana can still file to evict tenants for nonpayment of rent.

#### X CARES certification required @

Current orders in Louisiana do not require landlords to certify that a dwelling is not covered by the CARES Act eviction moratorium prior to filing to evict a tenant.

#### https://evictionlab.org/covid-policy-scorecard/la/

## AETC AIDS Education & Training Center Program South Central

#### X No filing if tenant has COVID-19 hardship

Current orders in Louisiana do not prevent landlords from filing to evict tenants who have experienced financial hardship due to the pandemic.

#### X No filing, except emergencies

Landlords in Louisiana can still file to evict tenants for non-emergency reasons.



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## 

× Hearings suspended

Eviction hearings may be held in Louisiana after June 15.

X Judgments of possession stayed

Eviction orders are not stayed in Louisiana.

X Deadlines extended or tolled @

Court deadlines in Louisiana are not tolled.

X Eviction records sealed

Eviction case records are not sealed in Louisiana.

https://evictionlab.org/covid-policy-scorecard/la/





## ENFORCEMENT OF EVICTION ORDER

### X No removal if tenant has COVID-19 hardship

Law enforcement in Louisiana can still enforce an order to remove a tenant who has experienced financial hardship due to the pandemic.

### X No removal of tenant, except emergencies

Law enforcement in Louisiana can still remove tenants from homes to enforce non-emergency eviction orders.

https://evictionlab.org/covid-policy-scorecard/la/

### X No removal of tenant for nonpayment

Law enforcement in Louisiana can still enforce an order of eviction for nonpayment of rent during the pandemic.





## **1** TENANCY PRESERVATION MEASURES

#### X No late fees

Landlords in Louisiana can still charge late fees.

### X Housing stabilization 🛭

Louisiana has not taken steps like freezing rent or introducing new housing subsidies that would address debt from rent that tenants could not pay during the pandemic.

https://evictionlab.org/covid-policy-scorecard/la/

#### X No rent raises

Current orders in Louisiana do not prohibit landlords from raising rent when renewing leases during the pandemic.

### X Legal counsel for tenants

Louisiana has not guaranteed legal counsel to tenants who face eviction.





# Summary

## We reviewed:

- The increasing morbidity, mortality, and hospitalization associated with COVID-19 in the U.S.
- There is not much difference in the incidence of or clinical manifestations of PWH compared with those who do not have HIV infection.
- Evictions for PWH are deleterious to maintaining health.
- An impeding eviction crisis at the end of 2020 that can significantly increase COVID-19 infections, especially for PWH.





Melody Barr
Deputy Assistant Director
Housing and Community Development



## Disclosures

No conflict of interests to disclose





# **Objectives**

- Provide an overview of housing subsidy
- Describe the barriers to housing
- Describe current solutions and opportunities





# Homeless to Housing

## **Homeless in Houston**



## **Homeless Housing**









# Housing Opportunities for Persons with AIDS (HOPWA)

















# Barriers to Housing

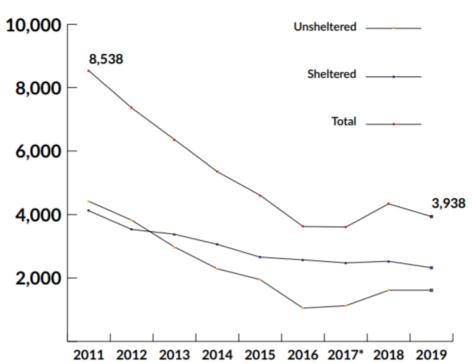
- Not enough "affordable" housing stock
- COVID-19
  - Stay at Home Orders
  - Eviction Moratoriums
  - Higher Unemployment Insurance
- Immigration Issues / Public Charge
- Technology Barriers
- Respite Care





# **Housing Solutions**

#### Comparing the Counts: 2011-2019



'In 2016, Montgomery County was added to The Way Home Continuum of Care, and has been included in the Homeless Count & Survey since 2017. This fact sheet compares current data, including Montgomery County, with 2011 data that did not include Montgomery County.

# Community COVID Housing Plan (CCHP)

- \$65-million plan joint venture
- 2-year plan to house 5K people experiencing homelessness





Brett J. Feldman, MSPAS, PA-C

Vice Chair, International Street Medicine Institute

Director, Street Medicine

Assistant Professor of Family Medicine

Keck School of Medicine of the University of Southern California

AETC AIDS Education & Training Center

**Program** 

Housing and Community Development

## Disclosures

No conflict of interests to disclose





# **Objectives**

- Define street medicine and describe the guiding values and philosophy
- Describe healthcare characteristics and utilization patterns of people experiencing homelessness
- Describe challenges facing people experiencing homelessness during the COVID-19 pandemic





# **Defining Street Medicine**

- Direct delivery of healthcare to the rough sleeping population (unsheltered homeless)
- Care performed on the street
- Done through walking rounds (motor cycles, horseback, kayak)
- "Go to the People"





# Values and Philosophy

- Patient led
- Reality based
- Unconditional respect
- Medicine as an instrument of peace
- Medicine as tool of advocacy















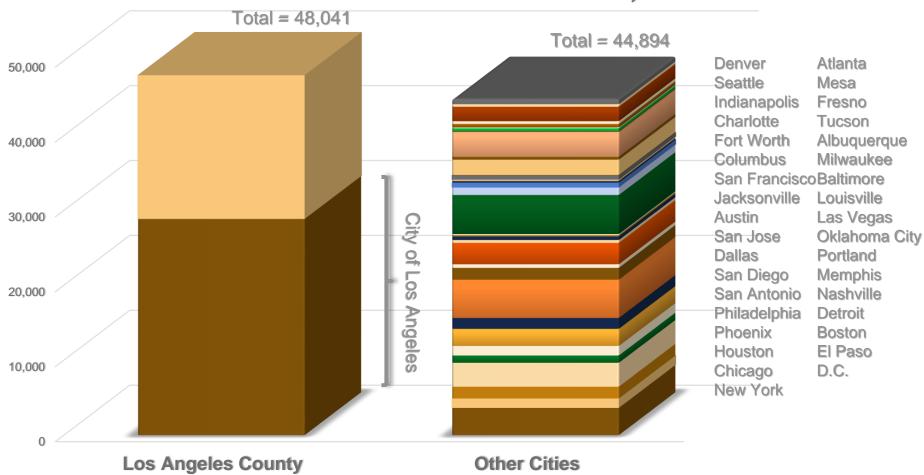








## Unsheltered Homeless in US, 2019/2020

















## Targeted interventions address social risk factors

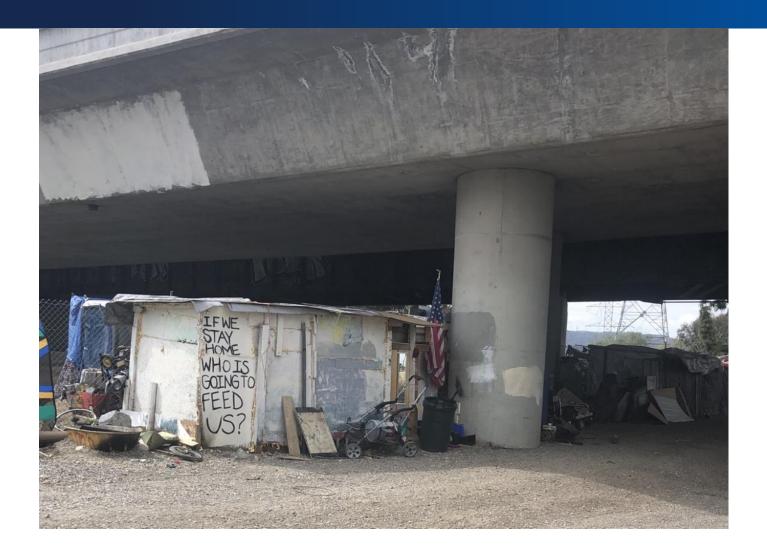
Vision: all unsheltered homeless in LA have access to basic healthcare



Keck School of Medicine of USC



















## Los Angeles County / Los Angeles City COVID Sites

- Isolation and Quarantine (I/Q sites)
- Project Room Key
  - High vulnerability places in independent living motels
- Park and Recreation Communal Shelters
- >40,000 left unsheltered











# How Principles Shape and Inform Policy

- Services are patient/person-led
- Reality-based exit strategy
- Preservation of civil rights
- Not convenience sampled
- Serve easiest to reach > most in need





# Street Medicine Practice During the COVID-19 Pandemic

https://stmi.memberclicks.net/assets/docs/COVid19% 20SM%20Guidance%203-20-20.pdf











# **Speaker Contact Information**

MarkAlain Déry, DO, MPH, FACOI

Madery@accesshealthla.org

Melody N. Barr <u>Melody.Barr@houstontx.gov</u>

Brett J. Feldman, MSPAS, PA-C Brett.Feldman@med.usc.edu 626-361-0406 (cell)

