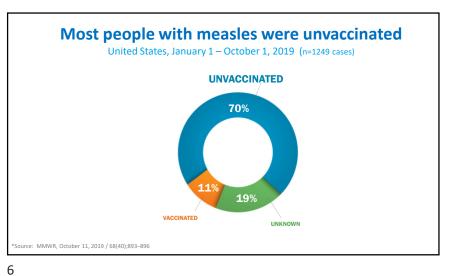


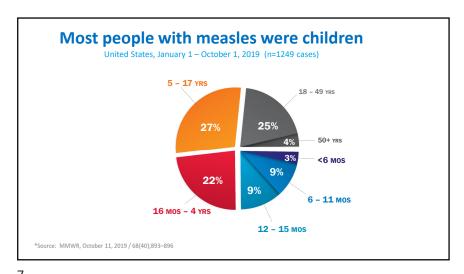
Measles in the United States: 2019

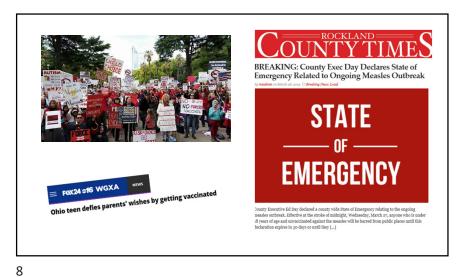
- Most cases in 27 years
- Several outbreaks driving case counts
 - Occurring in close knit communities
 - Most unvaccinated
- From January 1 October 1, 2019, 1,249 cases reported to CDC*
- 2nd highest number of reported outbreaks since U.S. elimination in 2000



*Source: MMWR, October 11, 2019 / 68(40);893-896



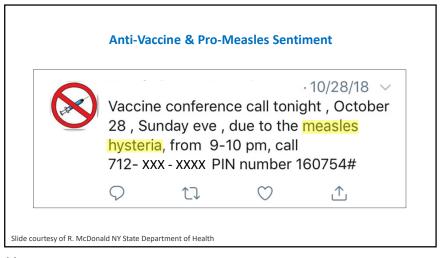


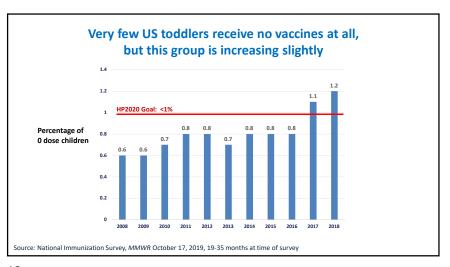


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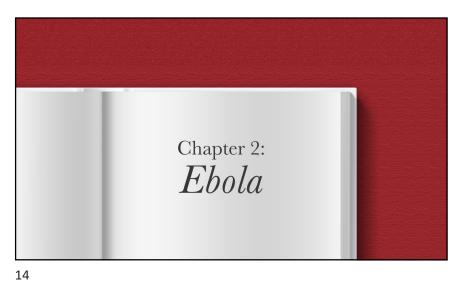


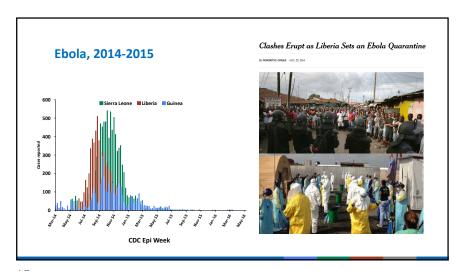


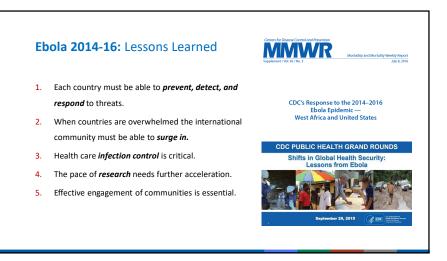


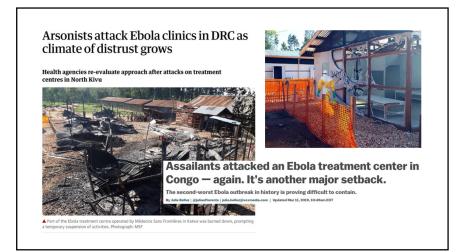


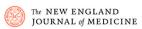












Perspective

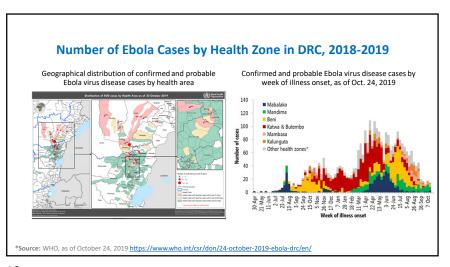
An Epidemic of Suspicion — Ebola and Violence in the DRC

Vinh-Kim Nguyen, M.D.

April 4, 2019

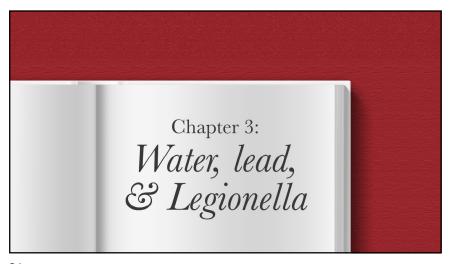
N Engl J Med 2019; 380:1298-1299 DOI: 10.1056/NEJMp1902682

"Are these urban flares the new norm? What might the ebb and flow of intervention and violence bode for future epidemics? Insights from the front lines may offer some clues."



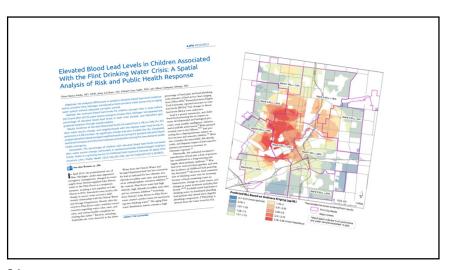
What's New or Not-so-New with Ebola DRC 2018-19

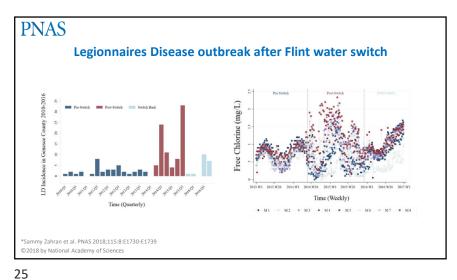
- Ebola outbreak in conflict zone.
- Decentralized diagnostic capacity (gene-Xpert).
- Large-scale use of ring vaccination.
- Systematic evaluation of treatments.
 - Two (REGN-EB3 and mAb114) were successful and now given to all Ebola patients.
- Infected HCWs and nosocomial spread once again important.
- Renewed efforts at community engagement.







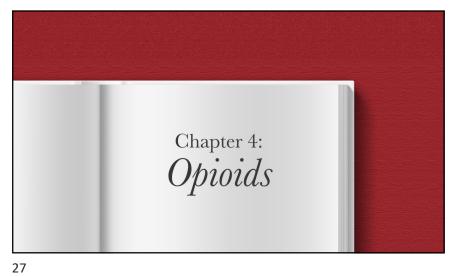




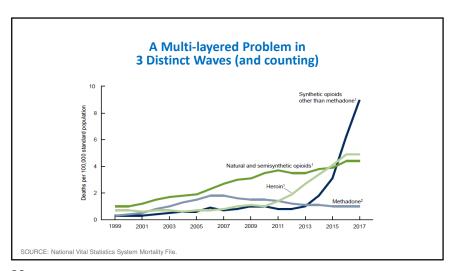
Long Term Flint Response



- Government, academic, philanthropic/non-profit partnerships
- Community informed/driven/participatory
- Grounded in science and trauma-informed
- Focused on secondary prevention
- Home visiting
- Medicaid expansion
- Breastfeeding
- Behavioral health
- Childcare
- Nutrition support
- Literacy
- Mindfulness
- School health



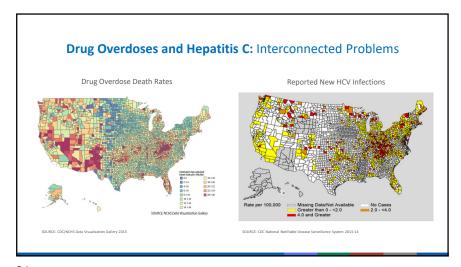


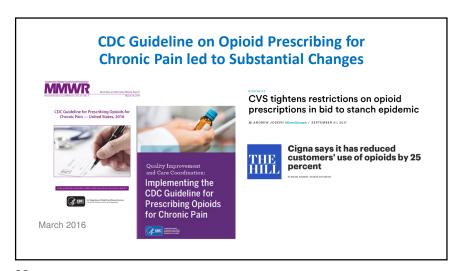


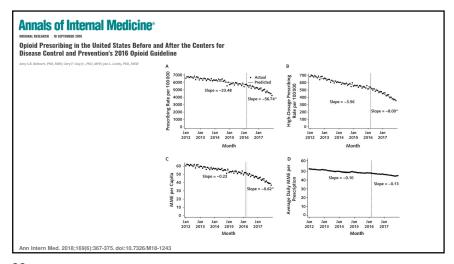
Opioid, HIV, and HCV Problems in Rural Indiana

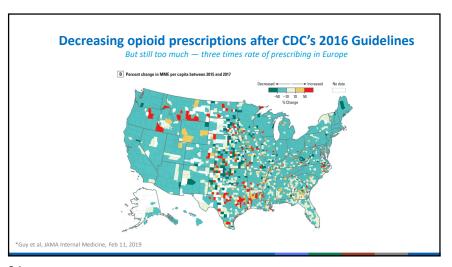
- >233 people with HIV
- 90% had HCV coinfection
- 5% adults with HIV (population 3,143)
- Over \$100 million in lifetime medical costs

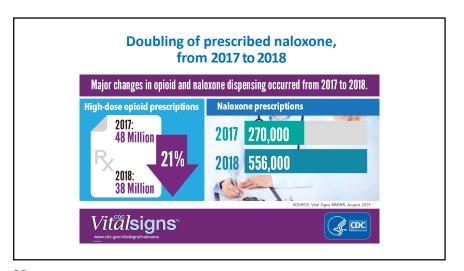


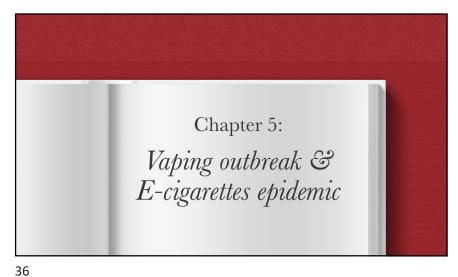




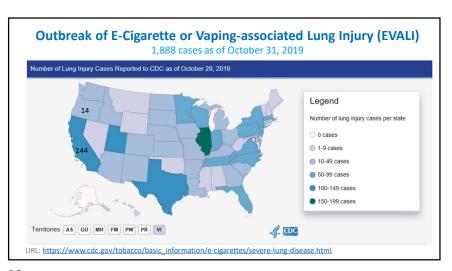




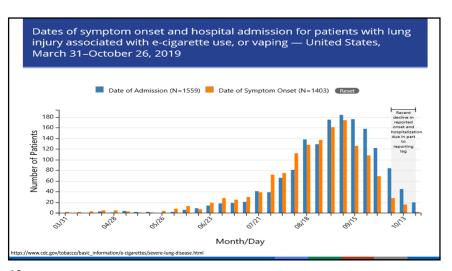


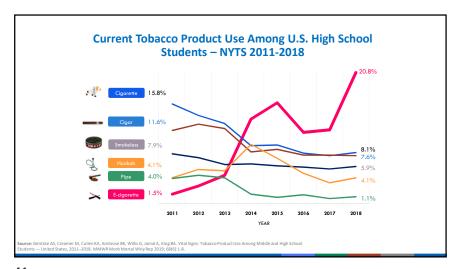


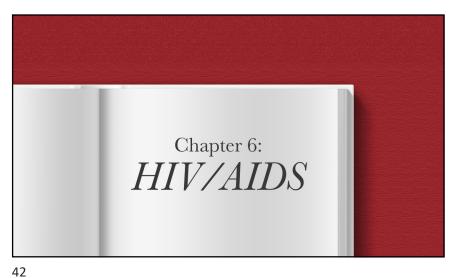




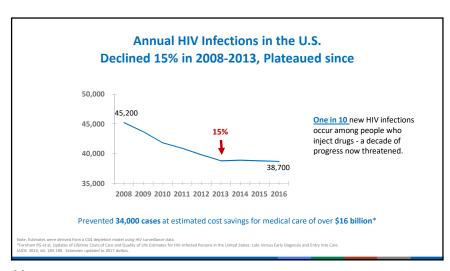
Chest Radiographs and High-Resolution Computed Tomographic Imaging in a 17-Year-Old Male Patient with Diffuse Lung Disease.

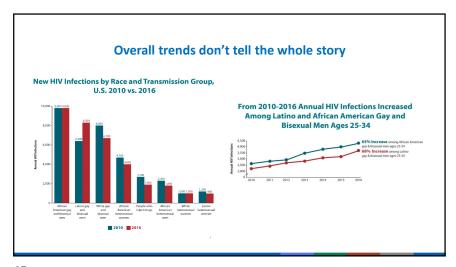


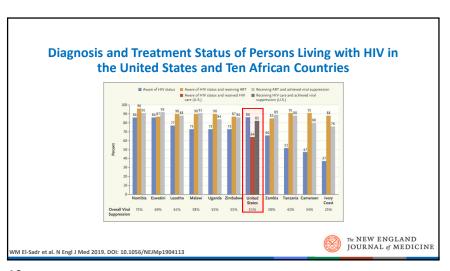










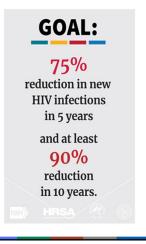


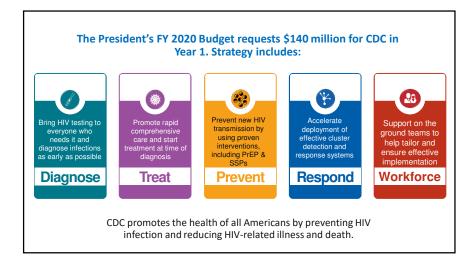
Ending the HIV Epidemic: A Plan for America

PHASE 1: Focused effort to reduce new diagnoses by 75% in 5 years

PHASE 2: Widely disseminated effort to reduce new diagnoses by 90% in the following 5 years

PHASE 3: Intense case management to maintain the number of new diagnoses at < 3,000 per year

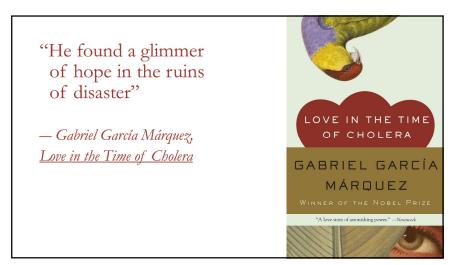


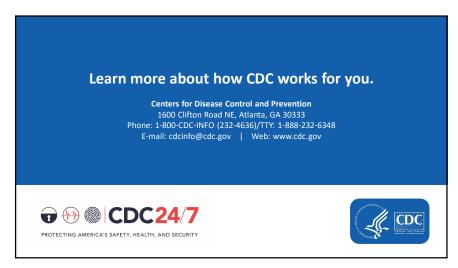




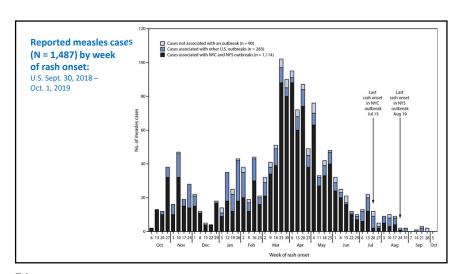
Strategies for public health today

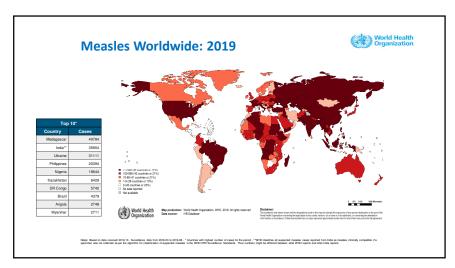
- Reliance on strong evidence-base
- Commitment to accountability
- Assuring political will
- Sustaining a sense of urgency
- Engaging communities, building trust





Extra slides





Geographic Clusters of Under-immunization

- Unimmunized tend to cluster together, creating areas at higher risk for outbreaks
- Type of exemption policy is linked to exemption frequency

Lieu TA. Pediatrics, 2015 Wang E. AJPH, 2014



