

THE EMERGENCY DEPARTMENT AND HOSPITAL-BASED DATA EXCHANGE FOR REAL-TIME DATA TO CARE INTERVENTION



The Emergency Department and Hospital-Based Data Exchange for Real-Time Data to Care (ED Alert) intervention utilizes a real-time data exchange system of alert prompts that are used to re-engage people with HIV to care when they present to the emergency department (ED) or inpatient units (IP).¹

Download intervention Implementation guides and explore resources to help you innovate while replicating interventions that link, re-engage, and retain people within HIV care at www.CIEhealth.org.



Priority Population

People with HIV who are out of care and whose viral load exceeds 200 copies/mL



The Challenge

A detectable viral load and lower CD4 counts are associated with increased morbidity and mortality. People with HIV and lower CD4 counts disproportionately access EDs for medical care due to insurance status; comorbid conditions, including substance use disorder or housing insecurity; and changes in their health status.²



The Model

The model consists of a real-time data exchange system that is activated when people with HIV with a detectable viral load (>200 copies/mL) present to EDs or IPs within the intervention area. The data exchange system cross-evaluates client data with public health department data to begin the process of re-engaging clients into care.¹



Pilot and Trial Sites

University of Washington Medical System, Harborview Medical Center (HMC), and the University of Washington Medical Center in partnership with Public Health – Seattle and King County (PHSKC) in Seattle, WA



Impact

Post-intervention participants were 1.08 times more likely (95 percent CI: 0.97–1.20) to have a viral load test within three months after an ED visit or IP admission and were 1.50 times more likely (95 percent CI: 1.27–1.76) to achieve viral suppression within six months than clients in the pre-intervention period.¹

¹ Avoundjian, T., Golden, M.R., Ramchandani, M.S., et al. Evaluation of an Emergency Department and Hospital-Based Data Exchange to Improve HIV Care Engagement and Viral Suppression. *Sex Transm Dis.* 2020 Aug;47(8):535–540. <https://doi.org/10.1097/OLQ.0000000000001195>

² Ridgway, J. P., Almirol, E., Schmitt, J., Wesley-Madgett, L., & Pitrak, D. (2019). A Clinical Informatics Approach to Reengagement in HIV Care in the Emergency Department. *Journal of Public Health Management and Practice*, 25(3), 270–273. <https://doi.org/10.1097/phh.0000000000000844>