**North Carolina
HIV Care Program
Integrated Data Systems**

**NASTAD 2024 Annual Meeting
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NC Introductions

__NC Division of Public Health HIV/STD/Viral Hepatitis Unit__

 -Bob Winstead, Ryan White Part B and HOPWA Program Manager

 -Anthony Hannah, CHAMP Coordinator, Hepatitis Program

Integration of Care Continuum Database Systems – NC ECHO

- In August 2016 North Carolina launched one of the Nation's first automated online HIV Care Continuum Data-to-Care database systems known as NC ECHO (North Carolina Engagement in Care database for HIV Outreach).

- This system was developed in response to the need for better data regarding out-of-care individuals.

- This system allows us to link HIV-diagnosed individuals to care so that they can achieve viral load suppression and reduce transmission of HIV to others.

Integration of Care Continuum Database Systems – NC ECHO

- This system collects demographic, HIV surveillance, clinical and service data, Medicaid claims, and antiretroviral therapy information from five separate data systems.

- Monthly data extracts are sourced from:
    - ❖ NCEDDS (NC Electronic Disease Surveillance System)
    - ❖ eHARS (Enhanced HIV/AIDS Reporting System)
    - ❖ HMAP (North Carolina's ADAP)
    - ❖ CAREWare
    - ❖ Medicaid

- The NC ECHO system performs a probabilistic linkage of person records on name, date of birth, social security number, and other identifiers to connect associated data records to identify HIV diagnosed individuals not in care.

- We are able to generate an out-of-care list which our State Bridge Counselors use to locate and get individuals back into care.

Integration of Care Continuum Database Systems – NCEDSS

- In 2004, the NC Division of Public Health utilized 13 CDC supported surveillance systems to manage reportable infectious diseases.

- Between 2004 and 2012 NCEDDS was designed to integrate disease reporting by all local health departments, case management and partner services for TB, HIV/AIDS, and syphilis, consume electronic laboratory reports, and electronically transmit disease reports to the CDC on a routine basis.

- As of December 2012, we validated that all current and historic HIV/AIDS and syphilis cases and all related partner services data were successfully merged into NCEDSS.

Integration of Care Continuum Database Systems – NCEDSS

- We now have general communicable disease data since 1993, HIV/AIDS reports since 1984, syphilis reports from 1999, partner services and case management data from 1993 all completely integrated.

- We are able to monitor comorbidities and co-reporting for all reportable diseases.

- We are able to pool screening, case reporting and management, and partner notification activities which result in better detection and disease control.

- We are the first state to successfully integrate all legacy surveillance, case management, and partner services databases.

Integration of Care Continuum Database Systems – eHARS

- eHARS is a CDC developed application that assists health departments with reporting, data management, analysis, and transfer of data to CDC.

- We use lab data from this system in determining viral suppression rates in NC and also to generate our out-of-care list.

Integration of Care Continuum Database Systems – HMAP and CAREWare

- We use CAREWare demographic data including name, date of birth, and other identifiers to match against our other data collection systems and confirm that an individual is in or out of care.

- Utilize state Bridge counselors to locate and re-engage out of care individuals.

Integration of Care Continuum Database Systems – Medicaid

- Data sharing agreements are in place with the NC Division of Medical Assistance (DMA) that allow us to identify persons living with HIV who are receiving Medicaid.

- This is especially important since NC has now expanded Medicaid, and we need to monitor the transition of Medicaid eligible individuals from Ryan White Part B services to Medicaid.

- Medicaid data also helps us to identify individuals who may have fallen out of care.

Integration of Care Continuum Database Systems – NC REEDS

The North Carolina Ryan White Enrollment and Eligibility Determination System:

- Web-based system in development for the past several years. Scheduled to go live October 2024.

- Will enable case managers to apply for Ryan White services via a web-based portal.

- Will allow us to complete HMAP and Ryan White Part B client eligibility determinations electronically and far more quickly than is currently possible.

- Data from this system will also be utilized to identify folks who have fallen out of care.

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- Hepatitis uses NCEDSS data to identify cases and track case investigations and linkage to care activities

- This data is also used to tailor recruitment efforts for providers for the CHAMP program focusing on areas with higher concentrations of Hepatitis cases.

Integration of Care Continuum Database Systems – CHAMP Data

- In collaboration with Duke University and the University of North Carolina at Chapel Hill, we/the NC Communicable Disease Branch developed a partnership to address limited resources for hepatitis C treatment.

- The Carolina Hepatitis Academic Mentorship Program (CHAMP) is a telemedicine program designed to increase access to hepatitis C treatment in North Carolina.

- CHAMP offers healthcare providers the opportunity to participate in a one-day "boot camp," an intensive course on successfully treating patients with viral hepatitis. In addition to the boot camp, CHAMPions attend bi-weekly conference calls with CHAMP mentors, which serve as a time for discussion of cases and continued education on effective treatment options.

Integration of Care Continuum Database Systems – CHAMP Data

- CHAMP providers (providers that have successfully completed the CHAMP bootcamp training) are asked to provide data regarding the number of patients they treat including whether SVR was achieved.

- This data is used to create our cure cascade since negative labs are not currently reportable.

Integration of Care Continuum Database Systems – Conclusion

- Our integrated data systems allow us to identify individuals who have fallen out of care so that we can take action to re-engage them in care.

- This is critical to our efforts to meet the CDC and National HIV/AIDS Strategy goals to decrease HIV transmission and end the epidemic in North Carolina.

Integration of Care Continuum Database Systems – Contacts

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