

Integrating Hepatitis C and HIV Data Improved the Evaluation of Persons with HIV and Hepatitis C Co-infection in New York City

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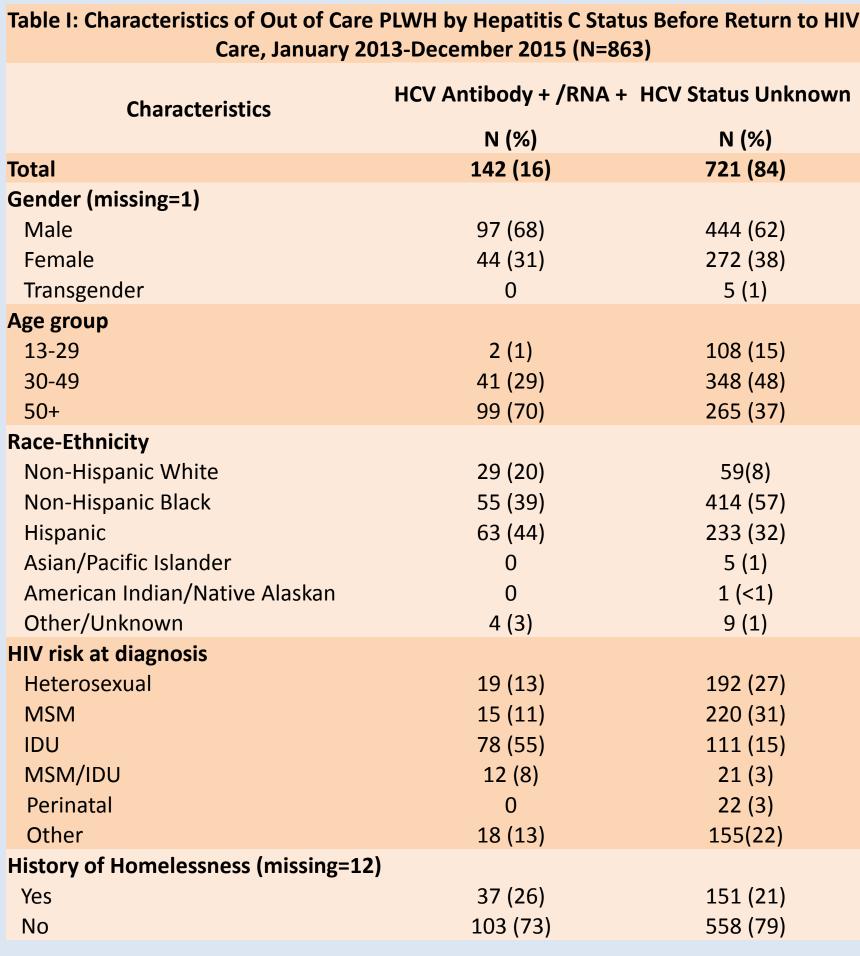
Background

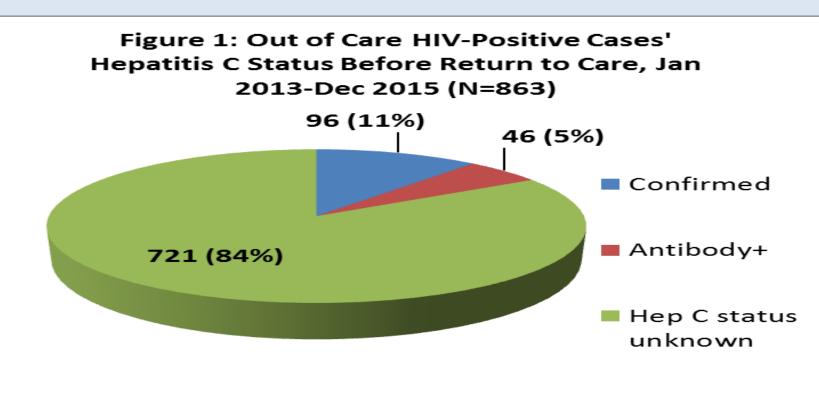
- Persons co-infected with HIV and hepatitis C (HCV) are at increased risk of rapid progression to liver cirrhosis and failure
- Current HCV treatments are highly effective in persons living with HIV (PLWH)
- Diagnosis and treatment of HCV in PWLH is critical

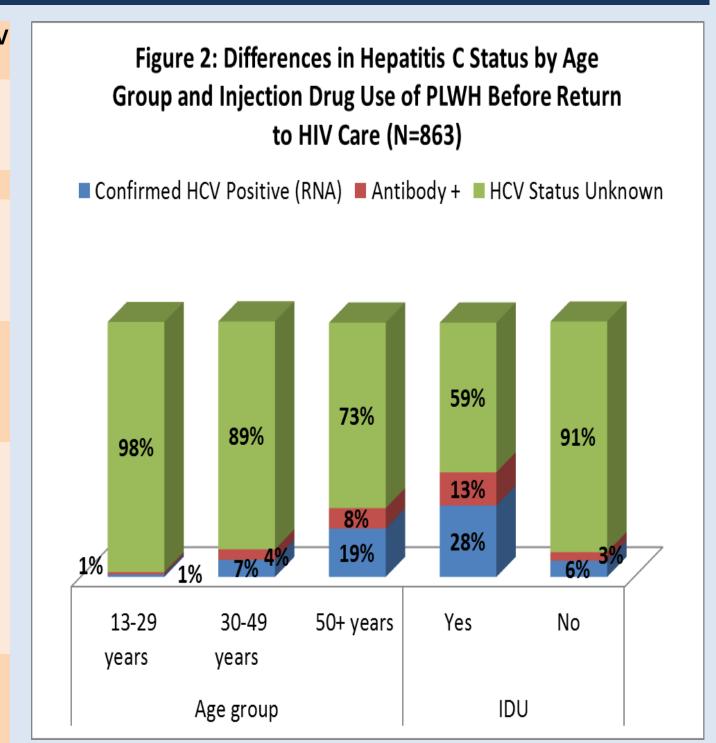
Methods

- In 2008, NYCDOHMH began outreach to patients on the basis of CD4 or HIV viral load (VL)
 results reported to HIV surveillance registry as proxy measures of engagement in care
- This information was used to identify PWLH presumed out of care (OOC) (no labs > 9 months)
- Once identified, OOC clients were assigned to public health workers for return-to-care (RTC) for HIV and for HCV evaluation and care if indicated
- In 2013, NYCDOHMH began matching names of OOC-PLWH with the HCV surveillance registry to prioritize HCV co-infected OOC-PLWH for RTC
- Confirmed HCV was defined by HCV RNA positive results
- HCV RNA positive results from the HCV surveillance registry were used after RTC to assess receipt of HCV evaluation and follow-up care

Results: Before Return to Care







Confirmed

Antibody+

■ At Least 1 Positive Result

Confirmed Antibody + HCV Status

Unknown

Antibody test (N=306)

Unknown

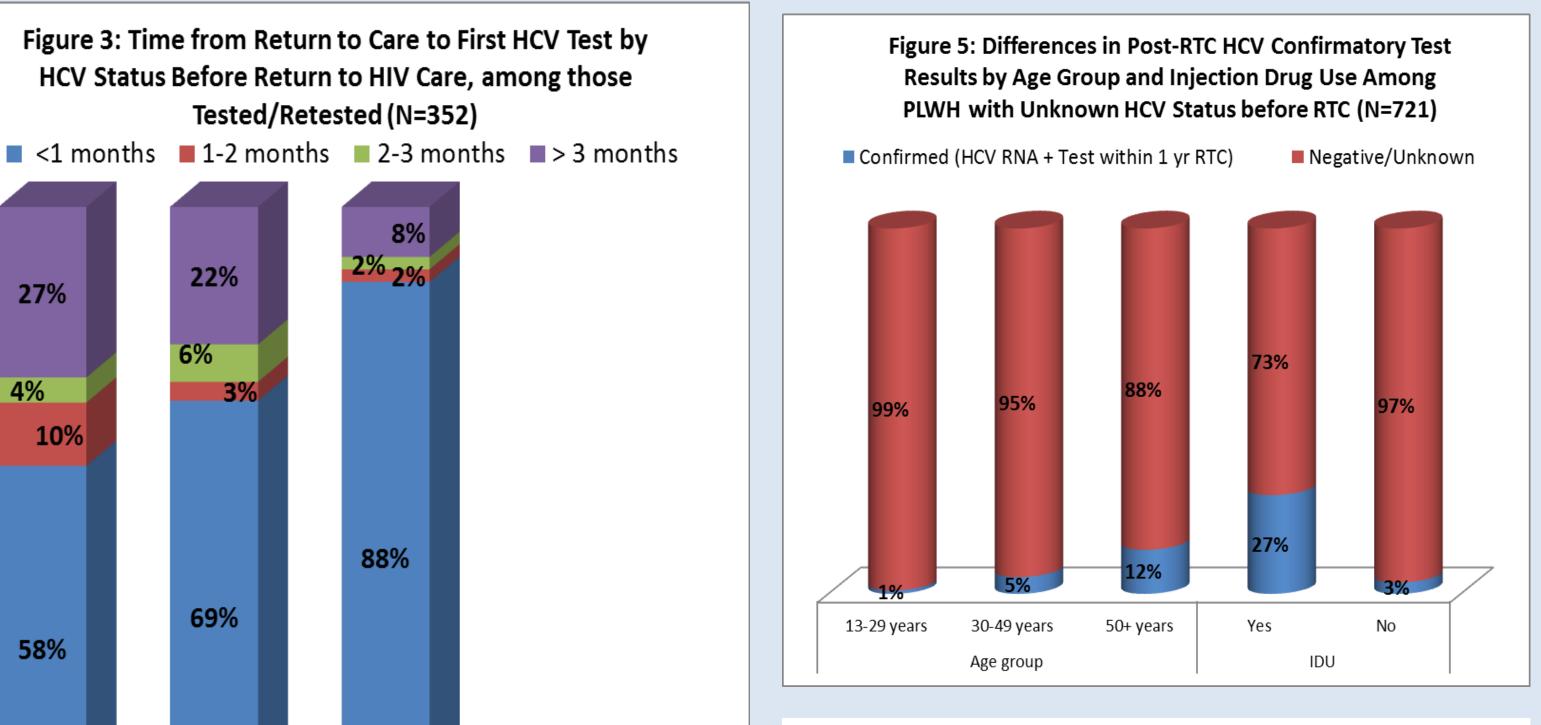
Figure 4: Post-RTC HCV Testing/Re-testing Results by HCV Status Before

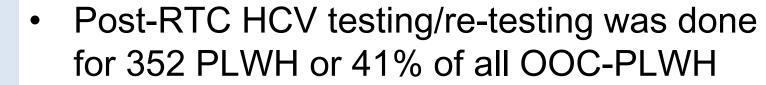
RTC , Jan 2013-Dec 2015 (N=863)

At Least 1 Negative Result

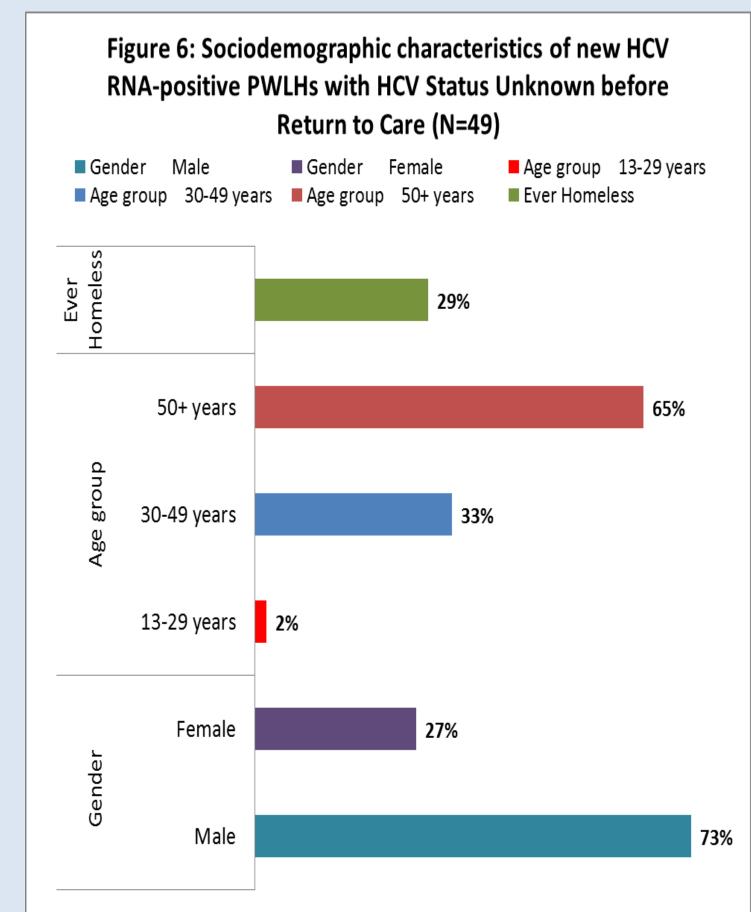
- From Jan 2013 to Dec 2015 a total of 863 OOC-PLWH were returned to care
- The majority of those OOC-PWLH were Black, followed by Hispanics [Table I]
- Before RTC, 142 (16%) PLWH had a positive HCV RNA or antibody test and 721 (84%) had an unknown HCV status [Figure 1]
- PLWH aged 50+ and IDU were more likely to have a positive antibody or HCV RNA result (p-values <0.001) [Figure 2]

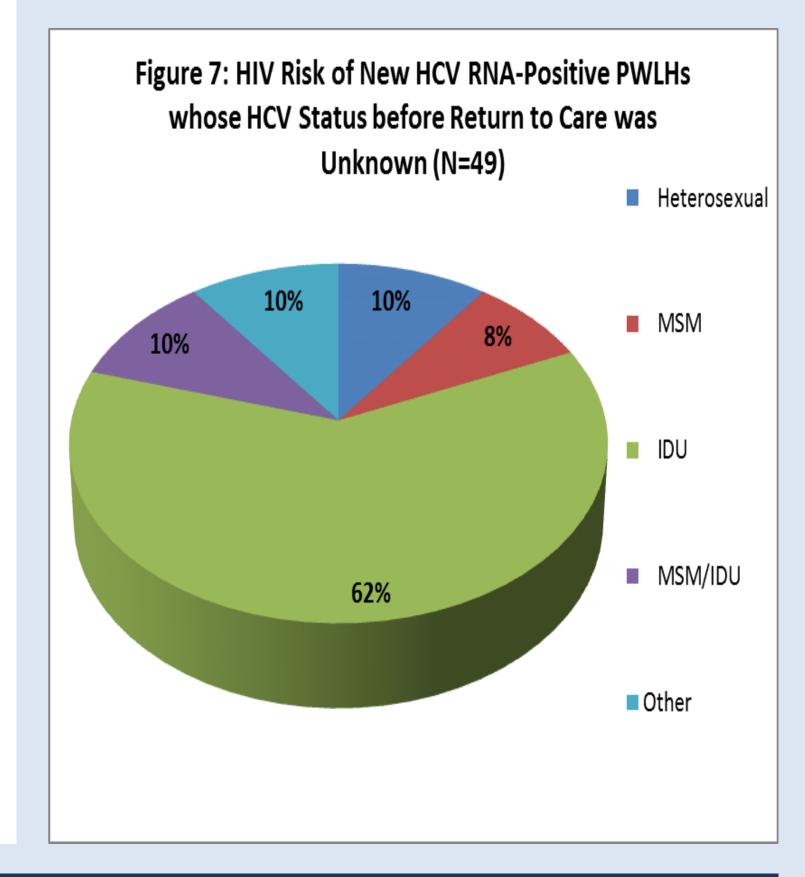
Results: Post Return to Care





- Overall, 83% of these 352 received their first HCV test/retest within 1 month of RTC [Figure 3]
- Of 77 PLWH tested/retested post-RTC, with confirmed HCV status before RTC, 57% had a subsequent HCV RNA + and 64% HCV antibody + result [Figure 4]
- Of 32 PLWH tested/retested post-RTC, with HCV antibody + before RTC, 39% had a subsequent HCV antibody + and 35% HCV RNA + result [Figure 4]
- Of 721 PLWH with unknown HCV status before RTC, 243 were tested post-RTC and 49 (7%) were confirmed HCV + [Figure 4]
- Among PLWH with unknown status before RTC, those ≥ 50 years and IDU were more likely to be confirmed HCV + post-RTC (p-values <0.001) [Figure 5]
- The majority of the 49 confirmed HCV + were male, ≥ 50 years and had IDU as their HIV risk [Figures 6 and 7]





Limitations

Confirmed Antibody + HCV Status

Confirmatory RNA test

(GEO/NAAT) (N=136)

Unknown

- HCV antibody negative results are not reported to the health department making it difficult to quantify the extent of HCV screening
- HIV-HCV co-infection status not assessed for PLWH not returned to HIV care

Conclusions

- Integrating HCV surveillance data in the selection of OOC-PLWH for RTC facilitated re-evaluation or new HCV diagnoses among persons at high risk for liver failure
- IDU can be prioritized for RTC by HIV programs conducting follow-up of HIV-HCV co-infected

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