

ED HCV Specialty Pharmacy Test-to-Treat Program

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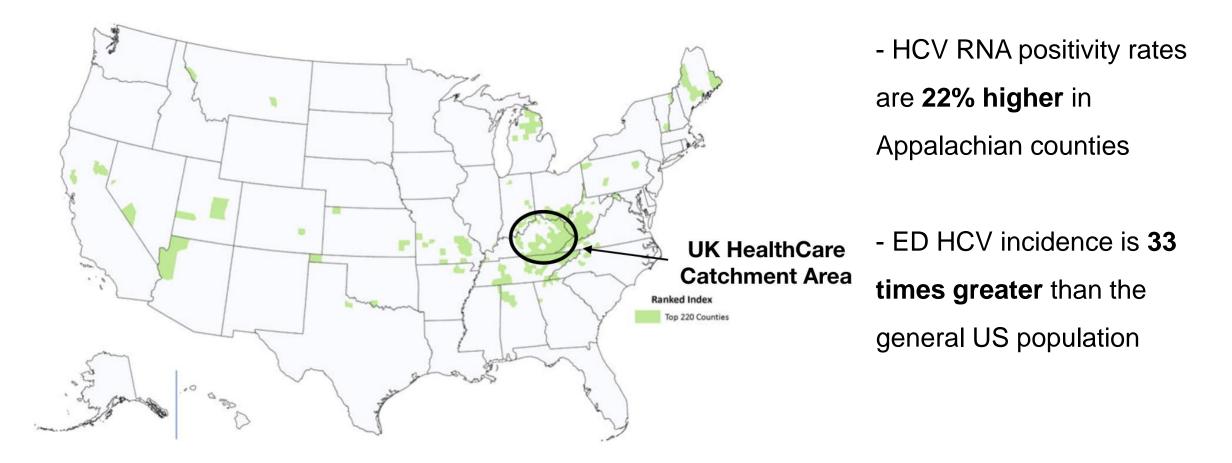
DISCLOSURE

Gilead FOCUS Grant and Salary Support*

*Gilead FOCUS had no role in my analysis of the continuum beyond first linkage



Background: The Syndemic Disproportionately affecting Appalachia



54 Of Nation's Top 220 Counties At Highest Risk For Infectious Outbreak Are In KY

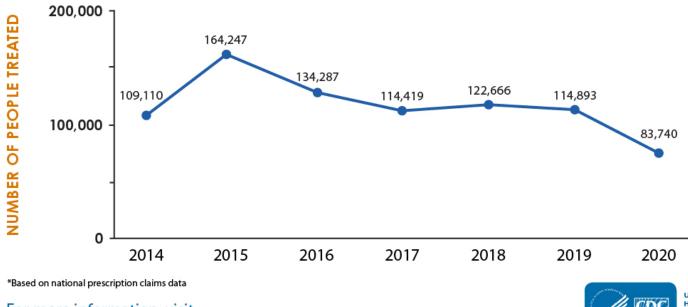


*Van Handel et. al. J. AIDS. 2016

Background: National Treatment Failures

THE NUMBER OF PEOPLE WHO INITIATED* HEPATITIS C TREATMENT IN THE U.S. DECLINED FROM 2015 TO 2020

COVID-19-related disruptions to hepatitis C testing and treatment likely contributed to the decline in 2020



In 2015 the National Academies of Science and Medicine estimated 260,000* people needed to be treated annually to eliminate HCV by 2030

For more information, visit cdc.gov/nchhstp/newsroom





*likely an underestimate given years of undertreatment and increasing incidence

PHASE 1: Gilead FOCUS Adult Non-Targeted ED HCV Screening BPA Began July 2018

UK HealthCare

Program Offers Hepatitis C Screening for Patients in UK Emergency Department

By Olivia Ramirez March 7, 2019



BPA Alert: If no HCV result, or negative result more than 1 year old, order repeat screening

> ED Policy: HCV screening annually



Adult Non-Targeted ED HCV Screening Began July 2018

	GSH	СН	Total	ſ
Days Reported	1,757	1,822	1,822	
Distinct count of Encounter ID	59 <i>,</i> 755	256,332	316,093	
Unique Patients Screened	31,657	147,488	165,815	
Unique Continued Patients	2,690	70 <i>,</i> 063	71,496	
Continue Rate	5.0%	40.2%	33.5%	
HCV Ab Results Received	11,705	97 <i>,</i> 033	108,738	
HCV Ab invalid/indeterminate/no result	32	131	163	
HCV Ab+	1,725	8 <i>,</i> 936	10,661	
HCV Ab+ Rate	14.8%	9.2%	9.8%	
RNA Results Received	1,780	8 <i>,</i> 938	10,718	
HCV RNA invalid/indeterminate/no result	37	647	684	
HCV RNA+	989	4,141	5,130	
HCV RNA+ Rate	55.6%	46.3%	47.9%	_
RNA Positive Individuals Linked to Care	247	1,903	2,150	

Of Those Treatment Eligible Who Are They?

• Young

82% < 55 years old

Under/Uninsured

73% Medicaid 20% Medicare, Uninsured, Self-Pay

• Without Advanced Fibrosis

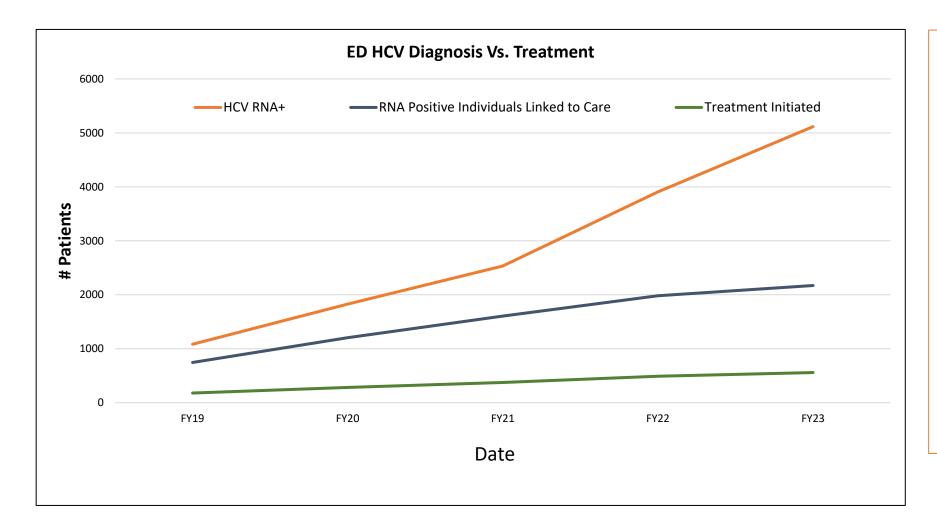
85% FIB-4 < 3.25 63% FIB-4 < 1.4

Treatment Eligible



*As of 7/13/23

UKHC Treatment Failures – Lost to Follow-Up Novel Model of Care Needed



- Only 10.89% treatment uptake since inception – July 2018-May 2023 (557/5116)*
- Average diagnosis to
 Treatment Initiation: 421
 days (Standard Deviation 401
 days)
- Novel processes were needed as diagnosis rate cannot outpace cure rate in order to eradicate HCV
- Vertically Aligned Total Care:
 Patient, Provider, Pharmacy



PHASE 2: ED HCV Specialty Pharmacy – Treatment CCA Began June 2023

Best Practice Alert modified:

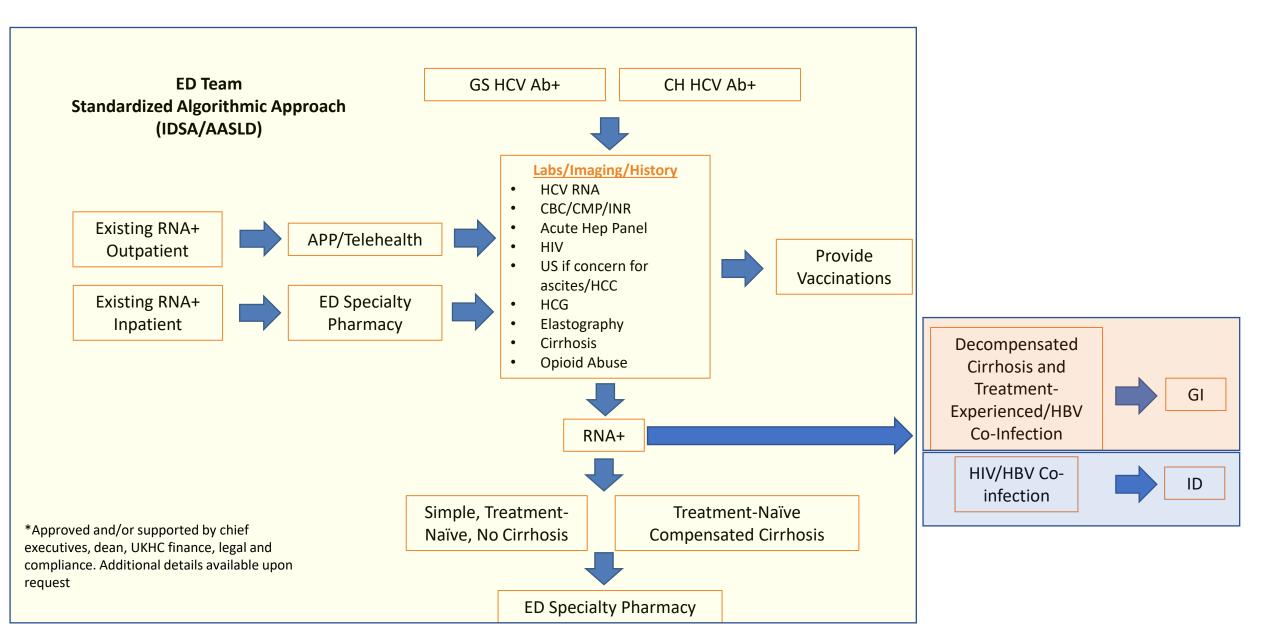
"If Hep C Ab positive or previous HCV RNA positive, the UKSP ED HCV Team will order additional labs, FibroScan, and immunizations if appropriate per signed collaborative care agreement"

Collaborative Care Agreement:

Signed agreement between ED attendings and HCV pharmacists to initiate standardized algorithmic treatment work-up in the ED at the time HCV Ab+ is identified



ED HCV Specialty Pharmacy – Workflow



ED HCV Specialty Pharmacy – Standard of Care

Five pharmacists in ED

- If workup is completed in ED, no clinic visit required before treatment

Advanced-practice provider in ED based HCV clinic

- Telehealth (including audio only) and in-person

Dedicated ED FibroScan

- Pharmacists trained to perform

Prompt referrals

- ID, Hepatology, addiction medicine, social work, primary care

Harm reduction resources

- By county

Hep A/B vaccines

- Including Heplisav





Reliably Estimating HCC Risk

More than one fibrosis tool to allow for comparison

- FIB-4, FibroScan, and/or abdominal imaging
 - If kPa 12.5 to 19.9 and/or FIB-4 > 3.25

 \rightarrow STAT US liver screen performed in ED to r/o HCC

• If kPa 9.5+

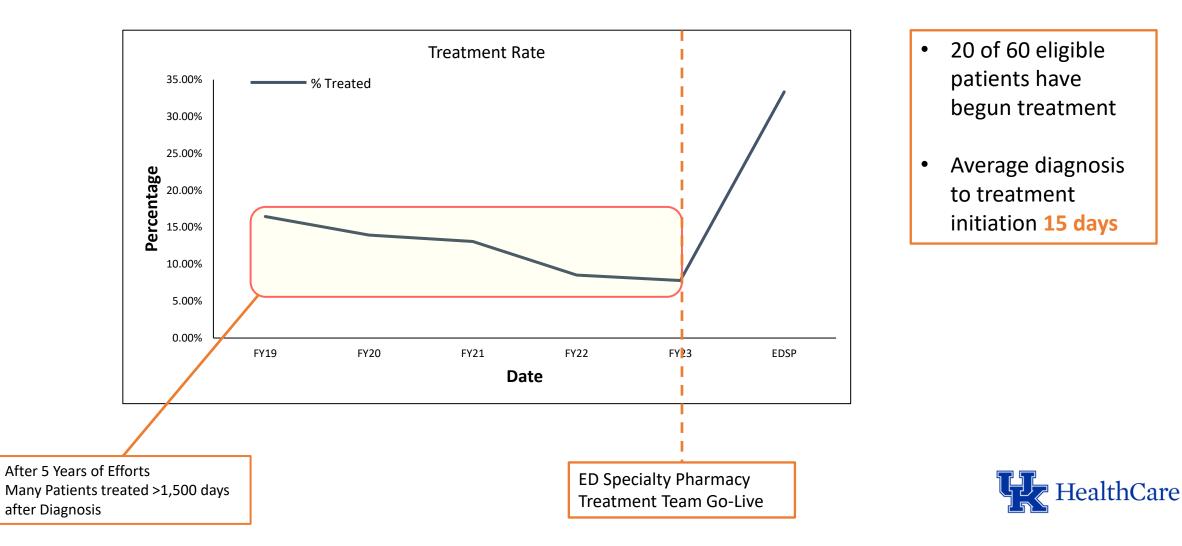
 \rightarrow Refer to Hepatology for ongoing HCC surveillance

Early findings

- 6 of 57 patients with discordant results between FIB-4 and FibroScan, among these:
- 4 have at least F3 fibrosis, with FIB4 < 1.45 (ages: 33, 42, 48, 41)



ED HCV Specialty Pharmacy Treatment Model Live June 2023



PHASE 3: ED HCV Specialty Pharmacy Test-to-Treat Expansion to KY Dept. of Corrections

Live June 2023

Preliminary screening results

5 county jails: Shelby, Boyle, Three Forks, Harlan, Pike (next: Powell, Marion)

HIV/HCV screening within 30 days of Parole-

37 eligible for screening with 97.3% participation/opt-in HCV Ab+ 27 of 36 (**75%**) HCV RNA+ 20 of 27 (**74%**) HIV+ 0 of 36



PHASE 4: ED HCV Specialty Pharmacy Test-to-Treat Expansion to UK Ambulatory Fall 2023



References

Daniel Moore, J., Galbraith, J., Humphries, R., & Havens, J. R. (2021). Prevalence of Hepatitis C Virus Infection Identified From Nontargeted Screening Among Adult Visitors in an Academic Appalachian Regional Emergency Department. *Open forum infectious diseases*, *8*(8), ofab374. <u>https://doi.org/10.1093/ofid/ofab374</u>

Van Handel MM, Rose CE, et al. County-level vulnerability assessment for rapid dissemination of HIV or HCV infections among persons who inject drugs, united states. *J Acquir Immune Defic Syndr* 2016;1:323-331

