

THE GRADY LIVER CLINIC

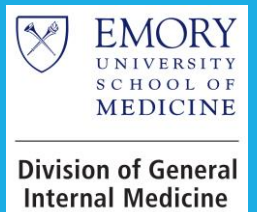
Partnering with GA DPH to Achieve Hepatitis C Elimination

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NASTAD Virtual Learning Collaboration

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Disclosures

- Dr. Miller receives grant funding from Gilead Sciences through Emory University and consulting fees from AbbVie
- Dr. Fluker receives consulting fees from Roche Pharmaceuticals

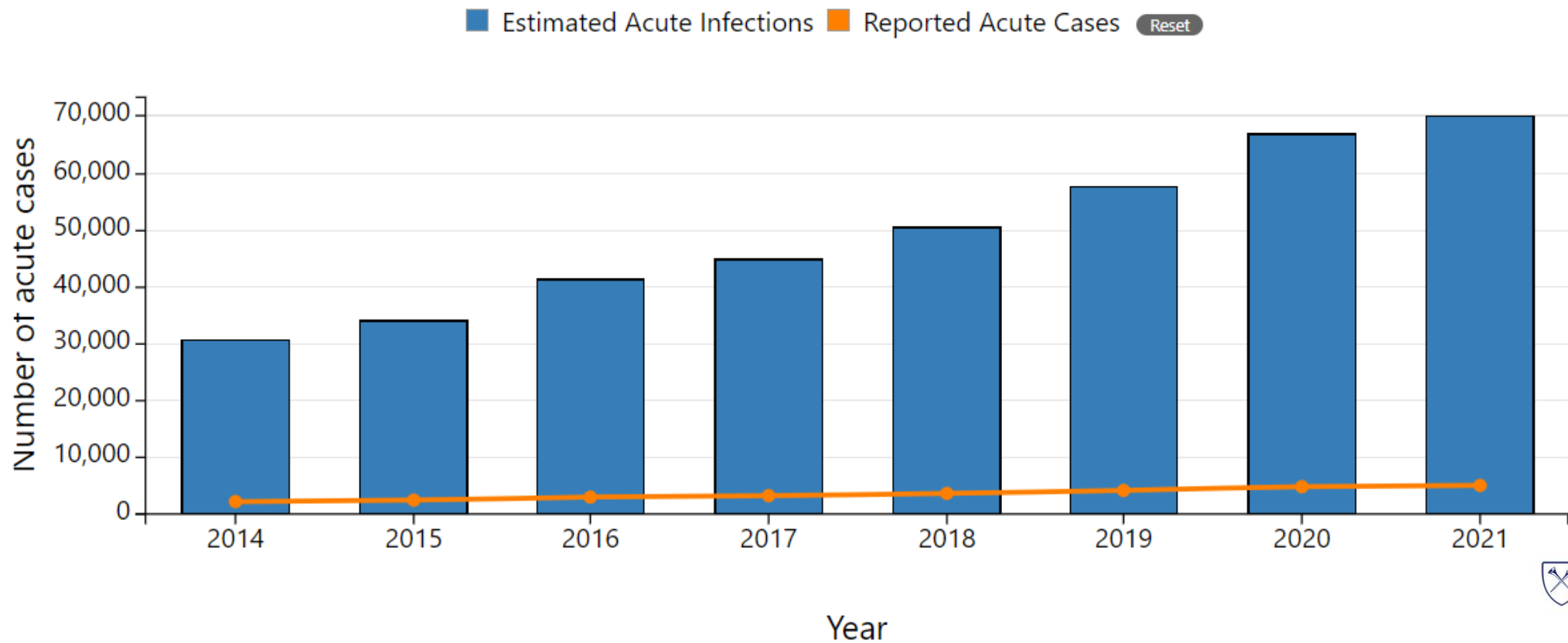
Objectives

- Review the current epidemiology of hepatitis C in the US
- Describe the Grady Liver Clinic model
- Describe the Grady Liver Clinic HCV elimination activities

HEPATITIS C IN THE US

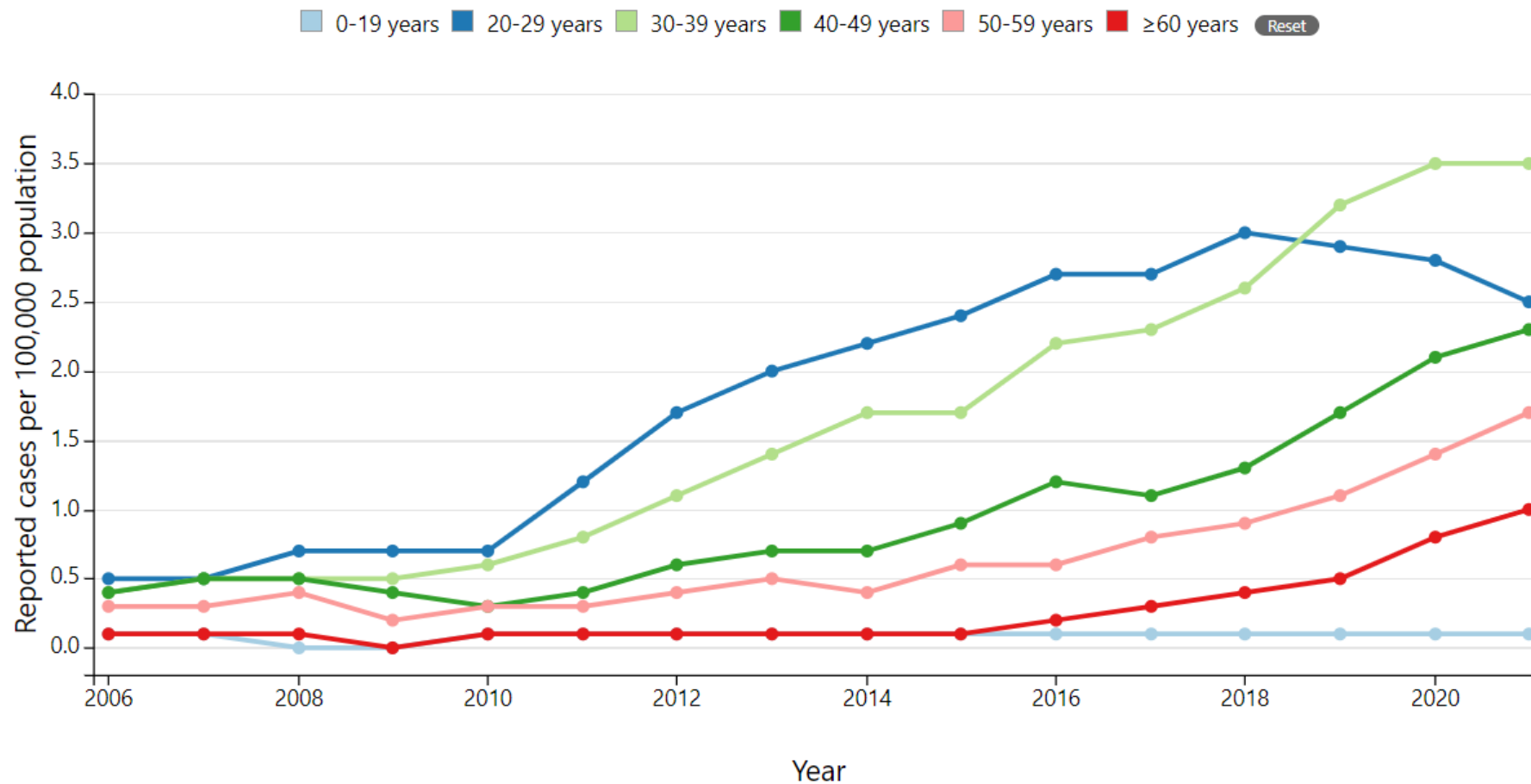
Epidemiology

Acute Hepatitis C 2014-2021



<https://www.cdc.gov/hepatitis/statistics/2021surveillance/index.htm>

Acute Hepatitis C 2006-2021

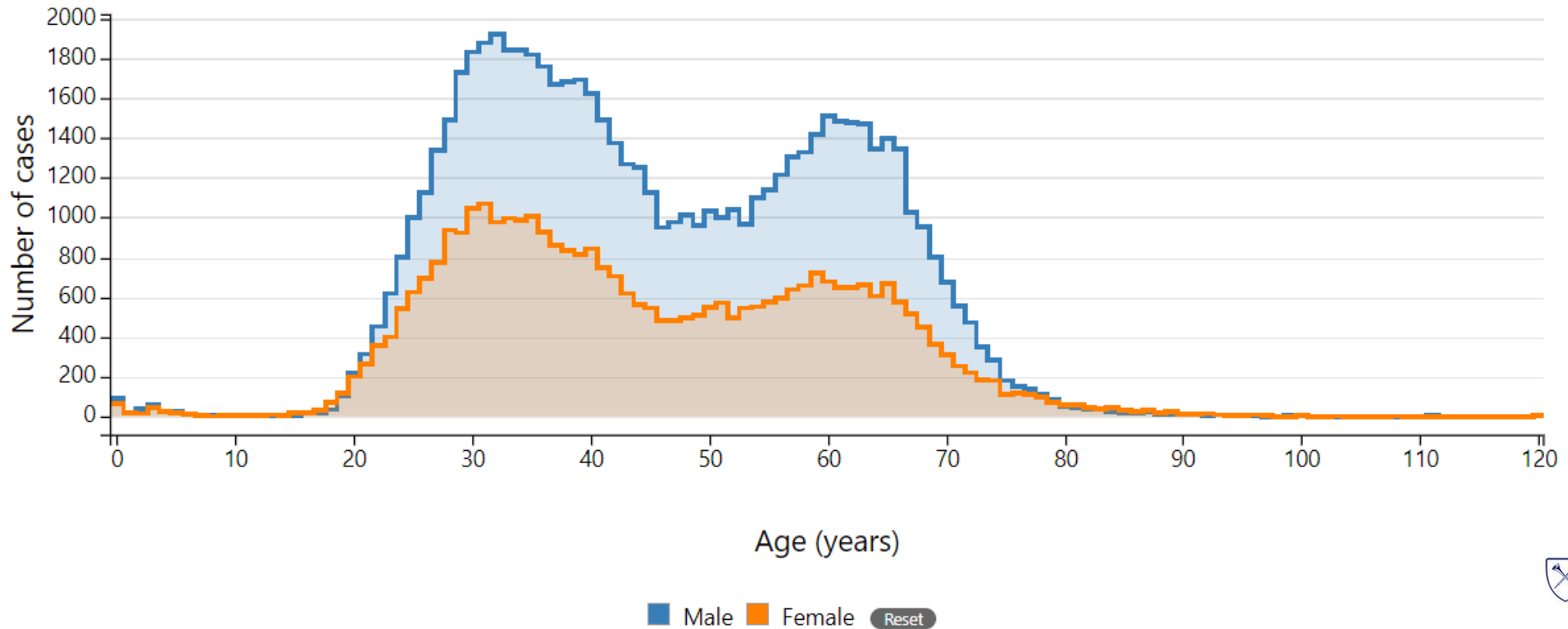


<https://www.cdc.gov/hepatitis/statistics/2021surveillance/index.htm>



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Newly reported chronic Hepatitis C 2021



<https://www.cdc.gov/hepatitis/statistics/2021surveillance/index.htm>

HCV Screening

WHO SHOULD GET TESTED FOR HEPATITIS C?

EVERY ADULT



At least once

EVERY PREGNANT WOMAN



Every pregnancy

EVERYONE WITH RISK FACTORS



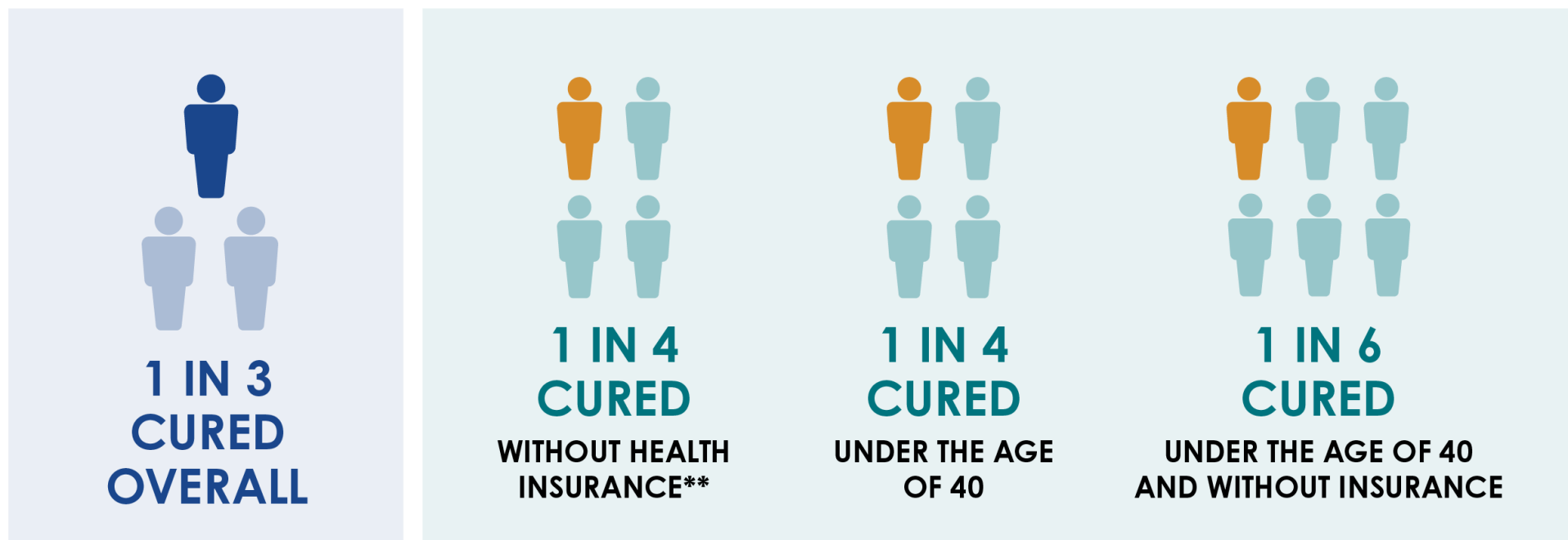
Regularly

~40% of people with hepatitis C in the US are undiagnosed

SOURCES: CDC Recommendations for Hepatitis C Screening, MMWR, April 2020
CDC Vital Signs, April 2020

<https://www.cdc.gov/nchstp/newsroom/fact-sheets/hepatitis/hepatitis-c-by-the-numbers.html#reverse-hepatitis-c-epidemic>

ADULTS DIAGNOSED AND CURED* OF HEPATITIS C IN THE U.S. 2013–2022



*Cured is defined as viral clearance, which is an undetectable hepatitis C virus ribonucleic acid (HCV RNA) after a prior test result of detectable HCV RNA.

**Referred to as Other (client or self-pay) in the analysis

Source: Centers for Disease Control and Prevention

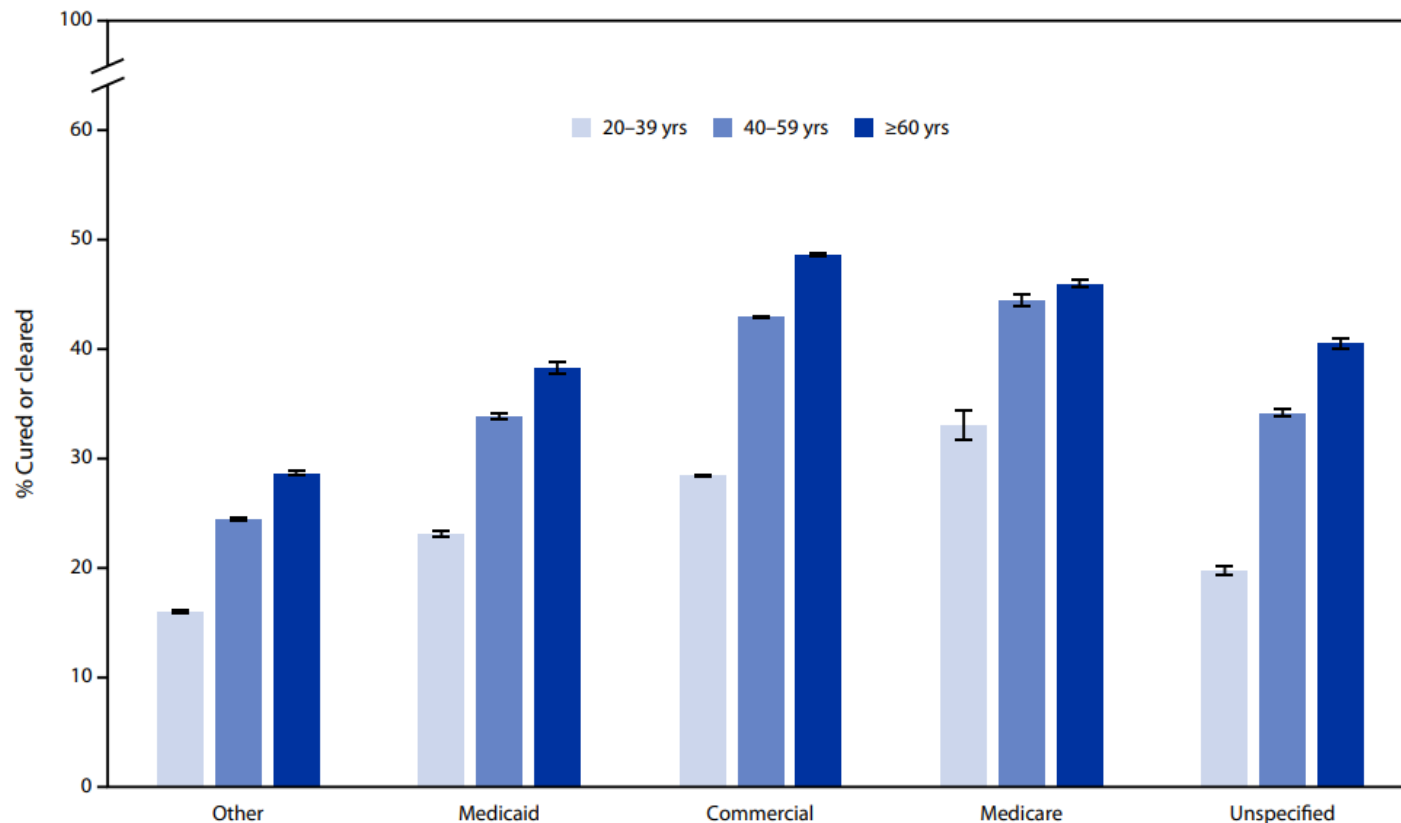


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<https://www.cdc.gov/hepatitis/statistics/2021surveillance/index.htm>

HCV Infected Persons with viral clearance

FIGURE 2. Proportion* of hepatitis C virus–infected persons with evidence of viral clearance, by age group[†] and payor type[§] — United States, 2013–2022[¶]



Highest rates of cure among people 60 and older with Medicare or commercial insurance but still only 49% are cured.


THE GRADY LIVER CLINIC

Model

Grady Health System Fast Facts 2022

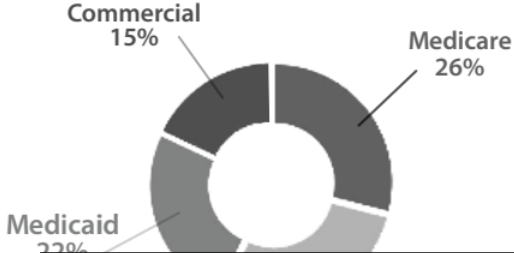
STAFF

7,800
Total staff



Physicians on Grady medical staff: 1,100
Nurses on staff: 1,645


PAYOR MIX



Payor Type	Percentage
Medicare	26%
Medicaid	22%
Commercial	15%

FACILITIES

Licensed beds: 953 Total



6 Neighborhood Health Centers
1 Infectious Disease Unit
1 Behavioral Health Unit

STATISTICS

Adult admissions 31,694

Observations: 7,615
Births: 2,205

Average length of inpatient stay (days):
Adult 6.91 | Newborn 3.51

Average hospital daily census: 596
Total patient days: 213,921

Patient origin

Fulton County	54%
DeKalb County	31%
Other	6%
Clayton County	4%
Cobb County	2%
Gwinnett County	2%
Henry County	1%

OUTPATIENT VISITS

344,169 Specialty Clinic visits

220,678 Neighborhood Health Center visits

158,014 Emergency Department visits

160,959 EMS responses

Grady Liver Clinic (GLC)



- Nationally recognized, innovative model for HCV care (est. 2002)
- Primary care-based, generalist run
- Provides critical access to care and treatment for un- and underinsured patients
- Serves as a linkage venue for screening programs
- Trains future generations of HCV providers

Grady Liver Clinic (GLC)



- Multidisciplinary Team
 - General internists and NP
 - Clinical Pharmacist
 - Medication Access Coordinator
 - Patient Navigator
 - Program Manager
- Collaboration
 - Across the health care system
 - DPH & community organizations

GLC HCV Elimination Activities

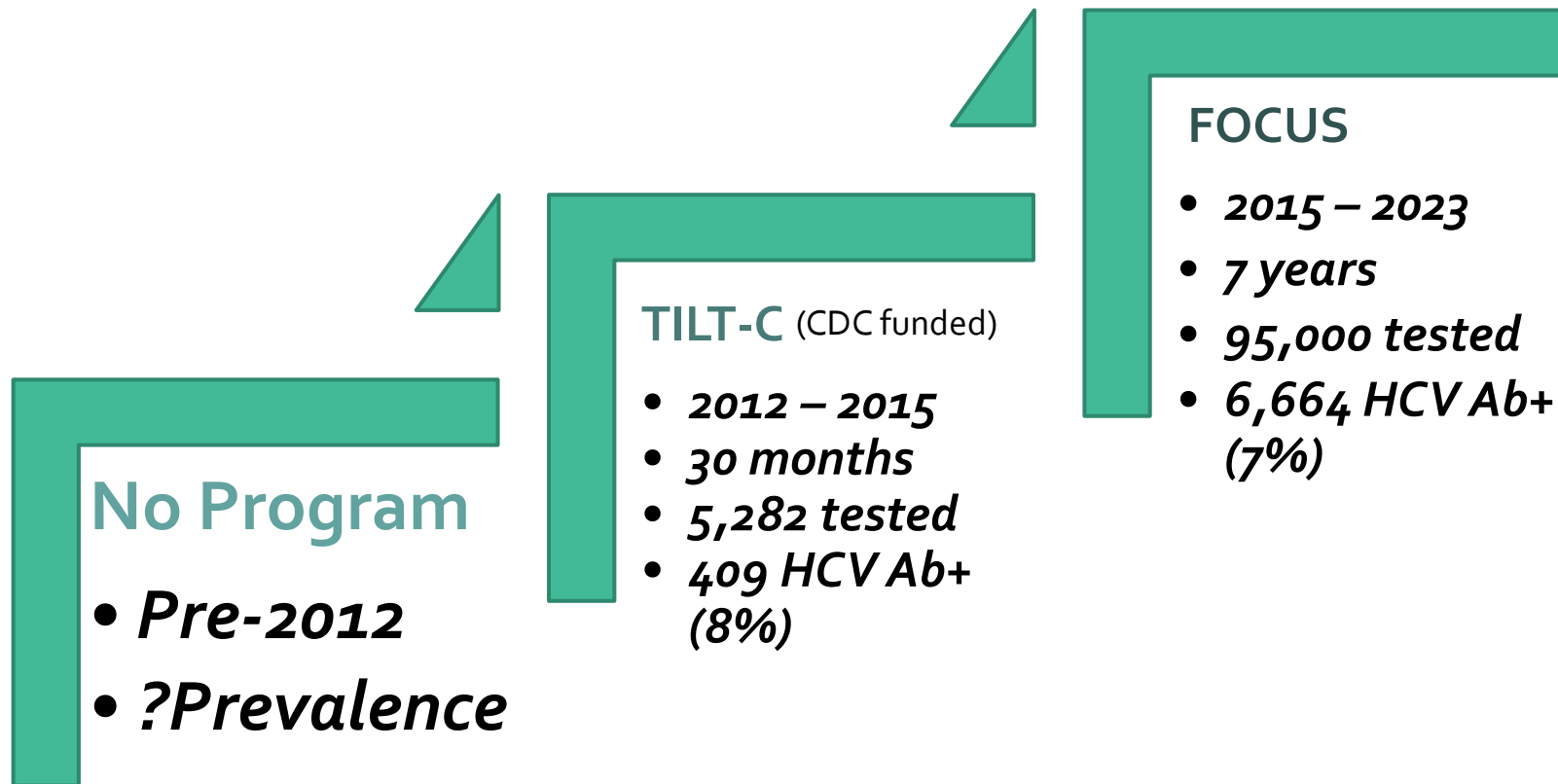
Screening
and
linkage to
care

Treatment

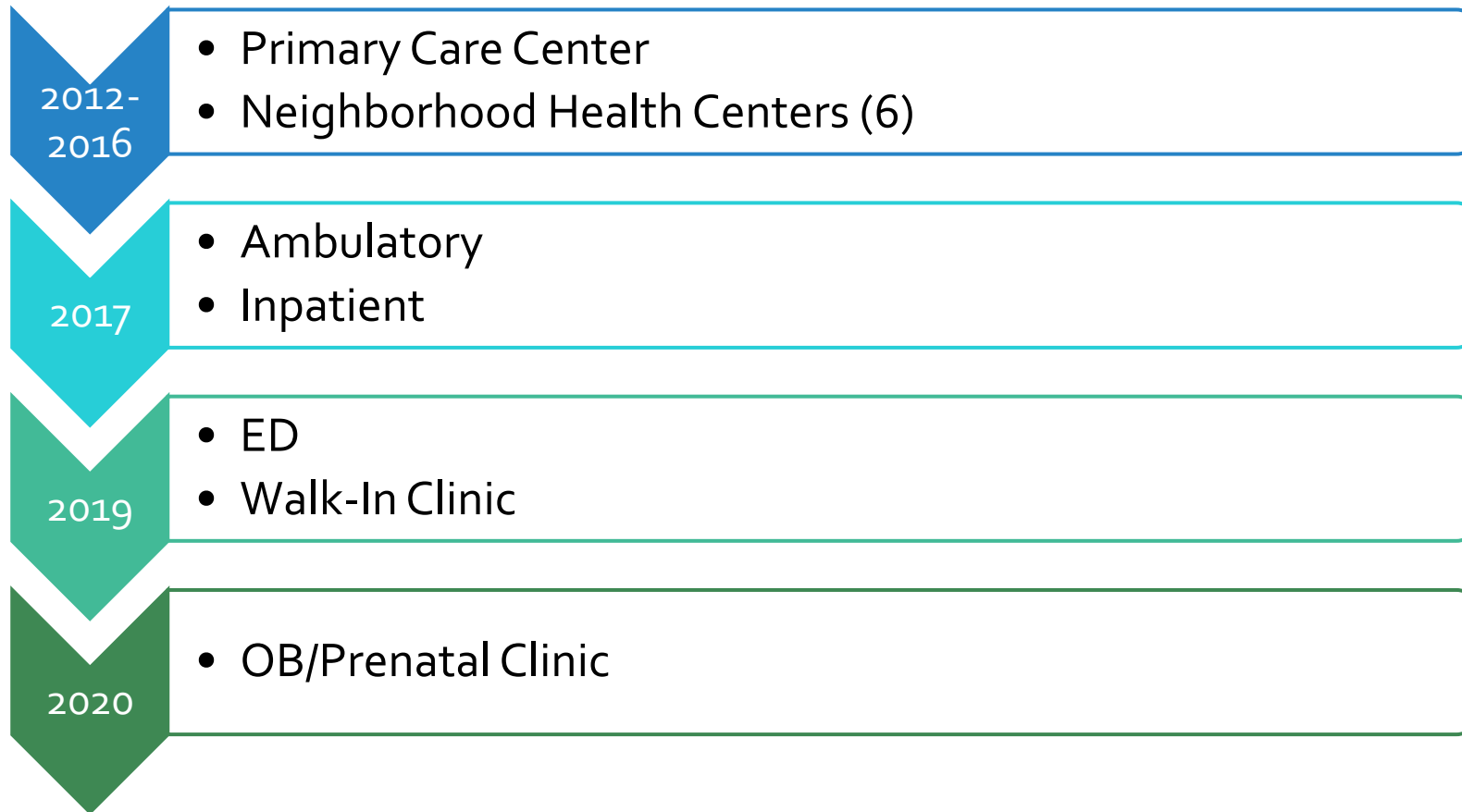
Building
community
treatment
capacity

Policy
action

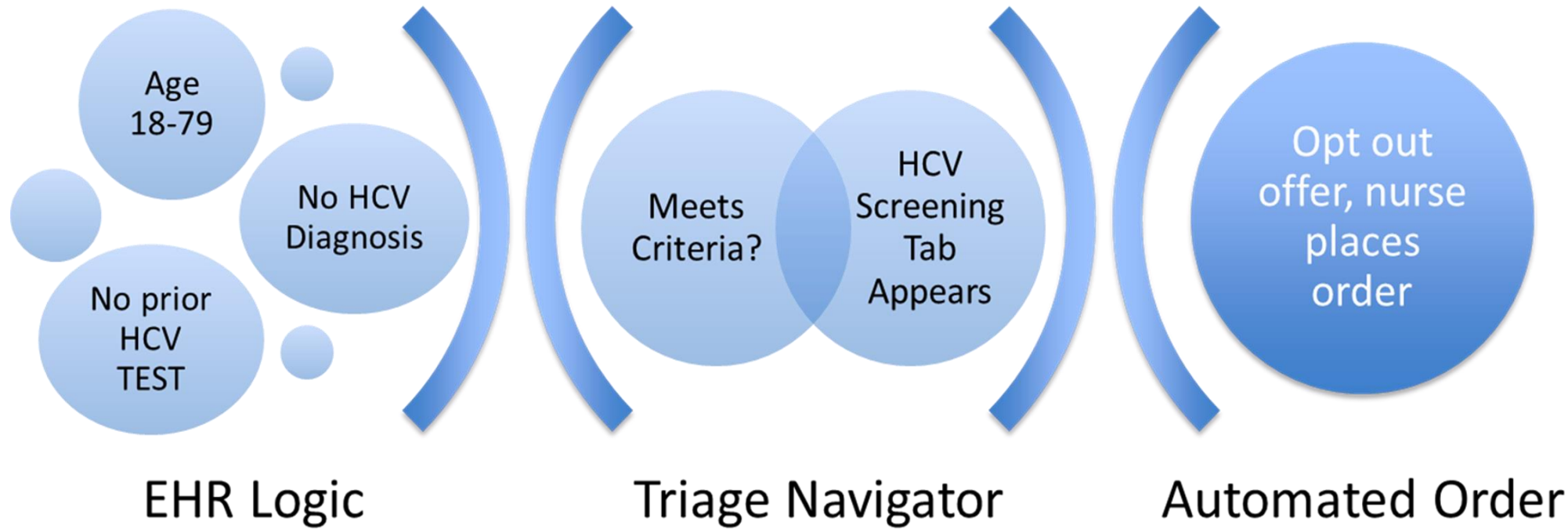
Evolution of Routine HCV Screening at Grady



Grady HCV Screening Expansion



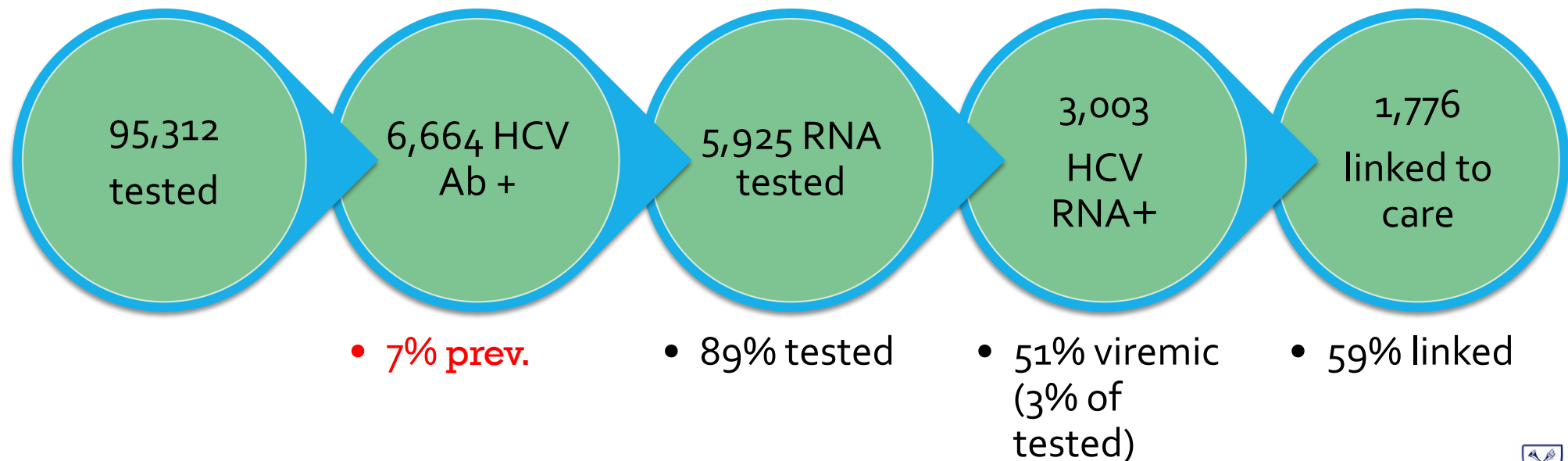
Grady Emergency Dept. Screening Algorithm



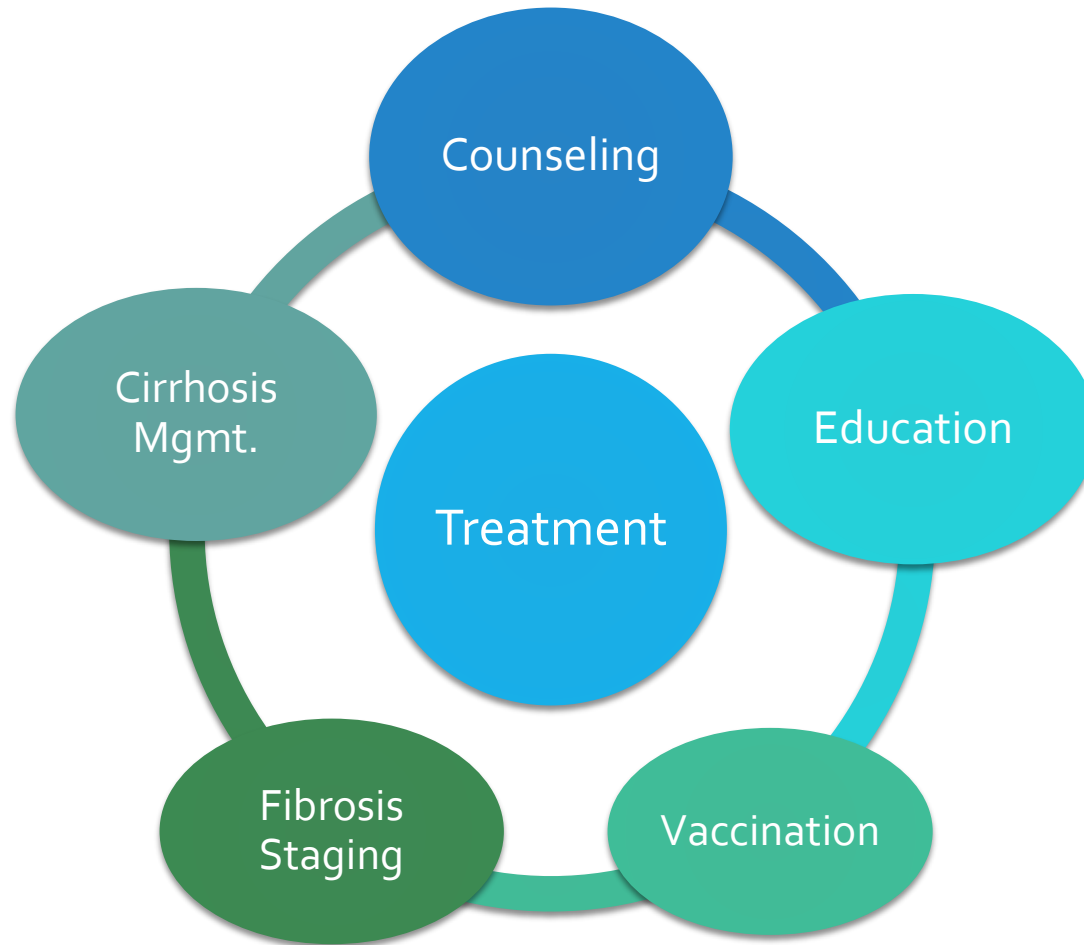
HCV Screening as a Health Maintenance Care Gap

Flu Vaccine (1)	🔴 Overdue since 9/1/2020	Imm Details
HIV Screening	🔴 Overdue since 9/4/2020	1 year(s)
Mammogram	📅 Ordered on 9/18/2020	1 year(s)
Upcoming		
Diabetes Eye Exam	Next due on 9/4/2021	2 year(s)
Depression Screening	Next due on 10/19/2021	1 year(s)
Pap Smear w/ Cotest HPV (21-65)	Next due on 9/4/2024	5 year(s)
HPV Cotest w/ Pap Smear	Next due on 9/4/2024	5 year(s)
Colorectal Cancer Screening	Next due on 12/4/2027	10 year(s)
Completed or No Longer Recommended		
Hepatitis C Screening	Completed	Once

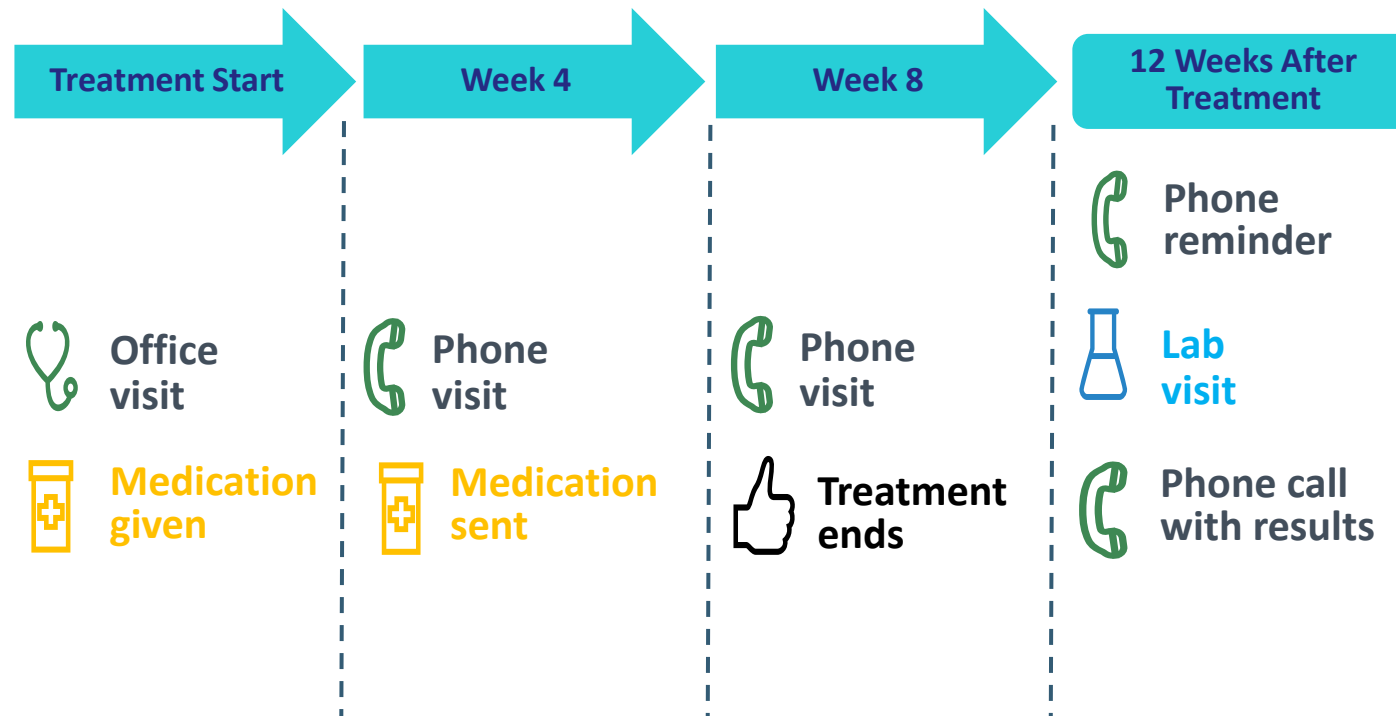
Grady HCV Screening Outcomes 2015-2022



Grady Liver Clinic Services



GLC Telehealth Treatment: "Contactless Cure"



Grady Liver Clinic population, 2015-2019

Table 1. Hepatitis C–related characteristics of the Grady Liver Clinic population, Atlanta, Georgia, 2015-2019^a

Characteristic	Total no. of patients (N = 2689)	Started treatment		P value ^b
		No (n = 606)	Yes (n = 2083)	
Age, mean (SD), y	64.3 (9.0)	63.3 (10.2)	64.6 (8.5)	.001
Male sex	1720 (64.0)	400 (66.0)	1320 (63.4)	.25
Race				.001
Black	2251 (83.7)	478 (78.9)	1773 (85.1)	
White	354 (13.2)	108 (17.8)	246 (11.8)	
Other ^c	84 (3.1)	20 (3.3)	64 (3.1)	
Genotype				.03
1	2385 (89.7)	502 (86.9)	1883 (90.5)	
2	132 (5.0)	31 (5.4)	101 (4.9)	
3	60 (2.3)	19 (3.3)	41 (2.0)	
Other	82 (3.1)	26 (4.5)	56 (2.7)	
Cirrhosis				<.001
Yes	617 (23.0)	149 (24.9)	468 (22.5)	
No	2039 (76.1)	424 (70.8)	1615 (77.5)	
Unknown	25 (0.9)	26 (4.3)	0	

^a Data source: medical records of Grady Liver Clinic. All values are number (percentage) unless otherwise indicated. Not all categories sum to the total number because of missing data; participants with missing data were excluded from percentages.

^b Determined by Pearson χ^2 and unpaired t tests. $P \leq .05$ was considered significant.

^c Includes Hispanic and Asian/Pacific Islander; the options in the medical record were Black, White, Hispanic, and Asian/Pacific Islander.

Grady Liver Clinic population

50%
Hypertension

20% Diabetes

17% Chronic
Pain

12% Lung
Disease

10% Heart
Disease

28%
Depression

72% current or
former alcohol
use

64% former
drug use

Grady Liver Clinic Cure Rates 2002-2020



Building Treatment HCV Capacity

GA DPH Provider Trainings

GA DPH ECHO

On-site Community Partner Trainings

CME Trainings

On-site Community Partner Trainings

- SUD Programs
 - St. Jude's Recovery Center, Atlanta, GA
 - Alliance Recovery Center, Decatur, GA
- Community Clinics
 - St. Mary's Clinic, Savannah, GA
 - Coastal Community Health, St. Mary's GA
 - Pineland CSB, Statesboro, GA
 - Mercy Care, Atlanta, GA
- Health Systems
 - St. Joseph's Candler, Savannah, GA



CME Trainings

- Hands on Hep C Symposium
- Block HCV
- Bridge HCV
- AMA telementoring (CDC funded)
- AAFP Regional Meetings



HCV Policy Action

- GA DPH Viral Hepatitis Elimination Workgroup
- GA DPH Viral Hepatitis Elimination-Medical Treatment subgroup
- HepVu and NASTAD Viral Hepatitis Surveillance Steering Committee
- NVHR Hepatitis C State of Medicaid Access Steering Committee



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Conclusion

- The Grady Liver Clinic plays an important role in HCV elimination efforts in Atlanta and beyond through its HCV screening, linkage to care, treatment and educational programs
- The Grady Liver Clinic has had a long and fruitful partnership with both the CDC and DPH, working collaboratively on HCV elimination efforts
- Future goals include expanding the HCV treatment workforce through provider trainings and telementoring via Project ECHO and continuing to work on state and nationwide elimination efforts