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NYS Hepatitis C Elimination Data Summary: 2010-2021

H.E.E.D.
New York State Hepatitis Elimination and Epidemiology Dataset

HEPATITIS C DASHBOARD NEW YORK

Primary HCV Elimination Metrics

HCV Diagnoses

- **Definition**
  The number of persons newly diagnosed with HCV infection, per year.
- **Data Source**
  HEED
- **Goal**
  90% of people living with HCV will be diagnosed

HCV Treatment

- **Definition**
  The number of persons diagnosed with HCV with evidence of treatment for, or clearance of, HCV infection, per year.
- **Data Sources**
  HEED
- **Goal**
  80% of diagnosed will be treated/clear infection

New Infections among PWID

- **Definition**
  The rate and number of new HCV infections among PWID, per year.
- **Data Source**
  Annual survey of SEP clients to identify new HCV infections among PWID.
- **Goal**
  80% reduction in new HCV infections

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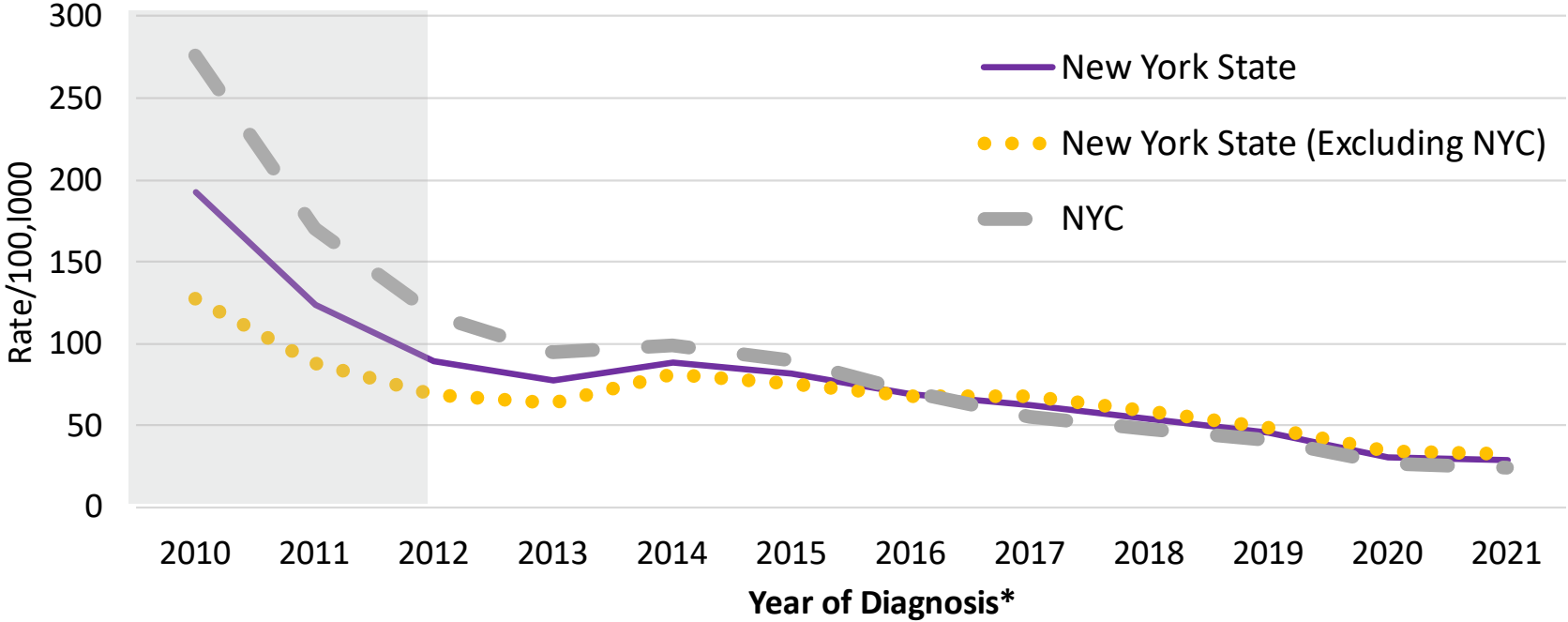
Diagnoses Metric

- Tracks the number of individuals newly diagnosed with HCV infection, per year.
- Individuals with a positive HCV RNA test or genotype are considered to be diagnosed with HCV.
- Diagnosis numbers presented by geographic area, sex and age.
- Statewide diagnosis numbers compared to estimated yearly targets.

Rate of Hepatitis C Diagnoses*, NYS: 2010 -2021



* Based on earliest positive HCV RNA or gentotype reported from 2010-2021. Some individuals, especially those appearing here in 2010-2011, may have been first diagnosed prior to 2010, resulting in the inflation of rates for these years.

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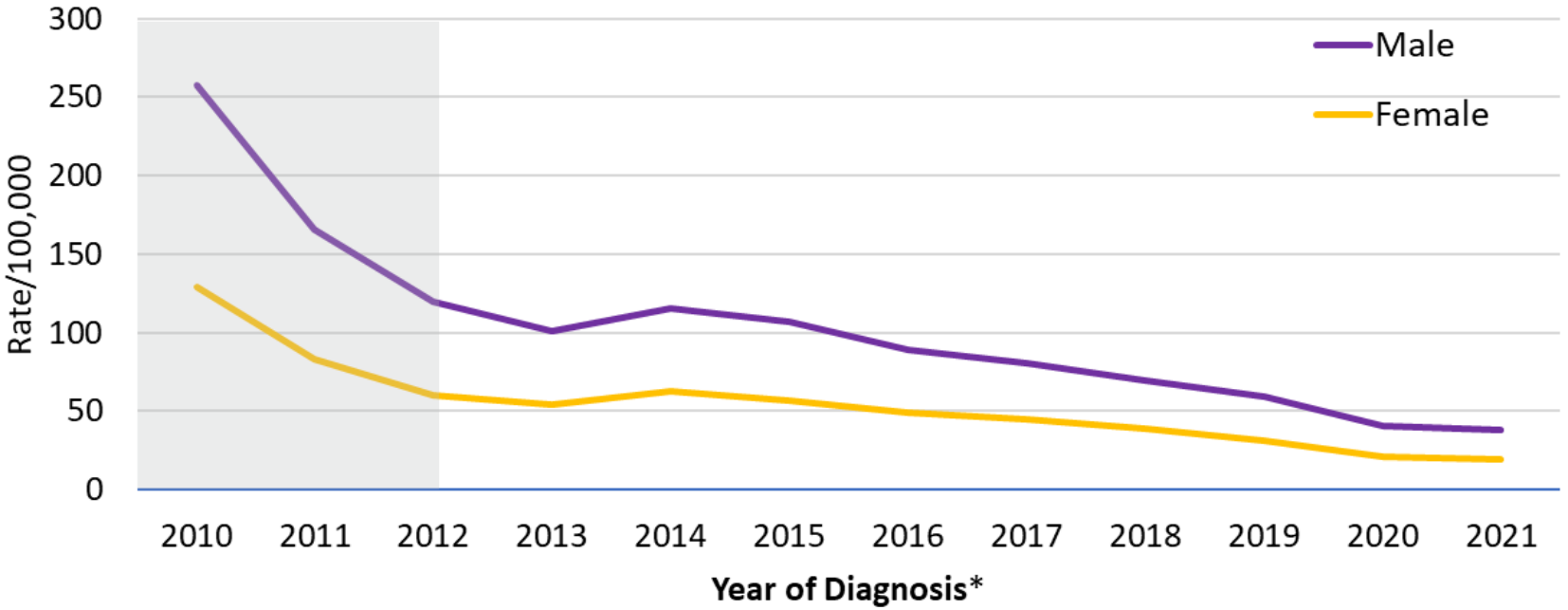
Rate of Hepatitis C Diagnoses* by Sex, NYS: 2010-2021



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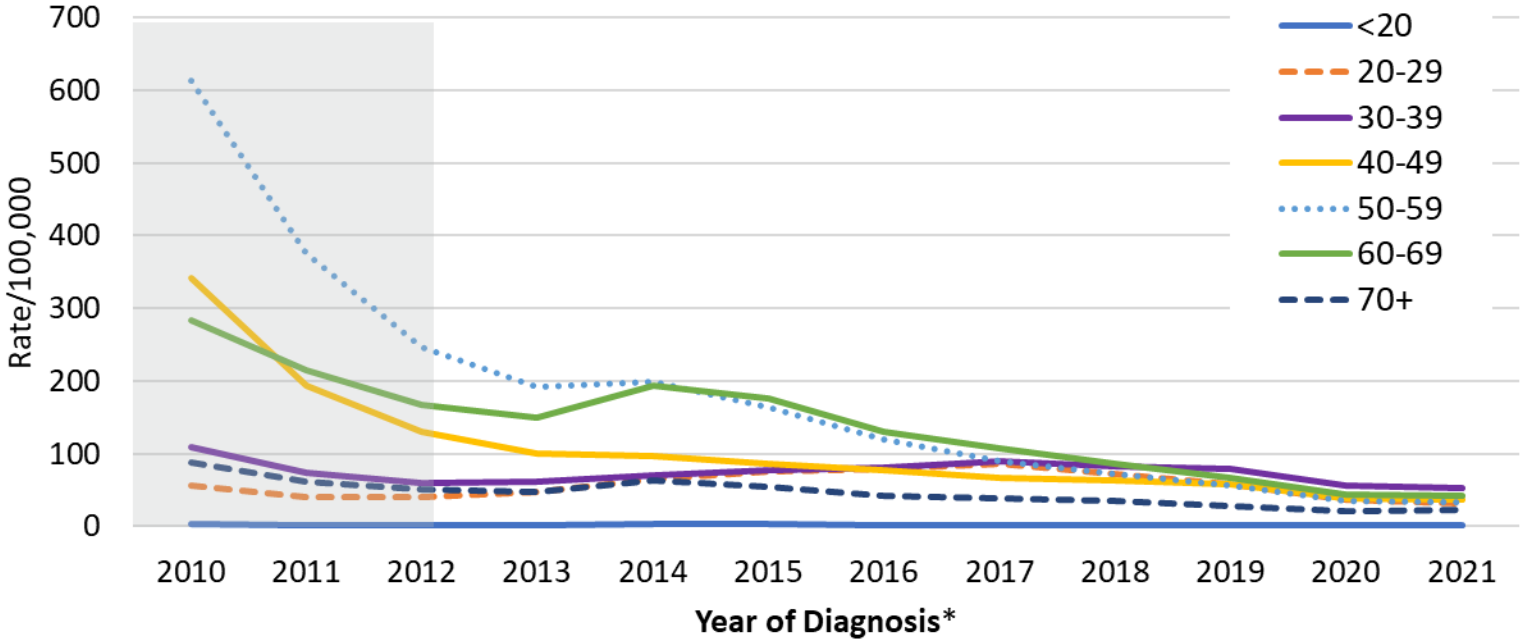
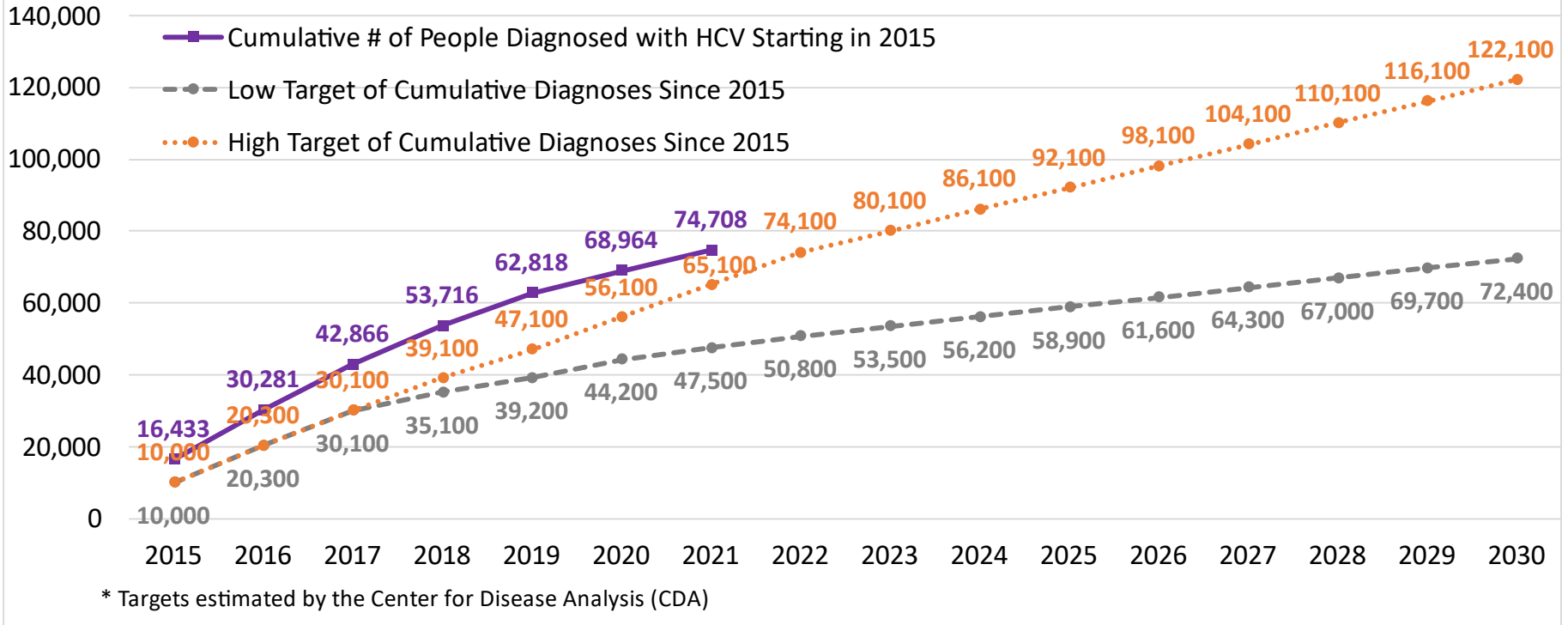
Rate of Hepatitis C Diagnoses* by Age at Diagnosis, NYS: 2010-2021



* Based on earliest positive HCV RNA or genotype reported from 2010-2021. Some individuals, especially those appearing here in 2010-2011, may have been first diagnosed prior to 2010, resulting in the inflation of rates for these years.

Cumulative # of People Diagnosed with Hepatitis C from 2015-2021 Compared to Low & High Estimated Targets* Needed to Reach Elimination by 2030, NYS



* Targets estimated by the Center for Disease Analysis (CDA)

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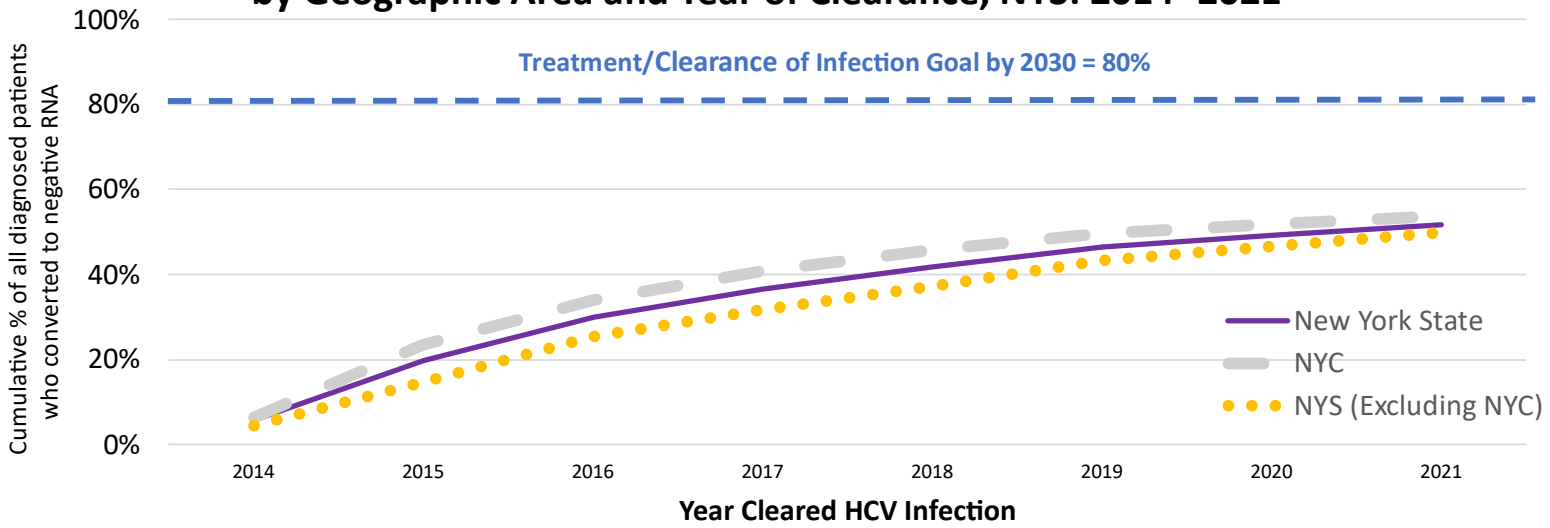
Treatment/Clearance Metric

- Tracks individuals diagnosed with HCV infection since 2010 who have evidence of treatment for, or clearance of HCV, per year.
- Individuals with a positive HCV RNA test or genotype followed by a subsequent HCV RNA negative test without any additional positive HCV RNA test or genotype tests, are considered to be treated or cleared of their HCV infection.
- Negative HCV RNAs reportable July, 2014 in NYC & Jan. 2016 statewide.
- Treatment/Clearance data presented by geographic area, sex and age

Cumulative Percent of Persons Diagnosed* with Hepatitis C Who Cleared** Infection by Geographic Area and Year of Clearance, NYS: 2014 -2021



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** Clearance of infection indicated if most recentHCV RNA or genotype result is negative. Clearance may occur following treatment or spontaneously, without treatment. Negative HCV RNA results reportable in NYC as of July 2014 and in NYS as of Jan. 2016.

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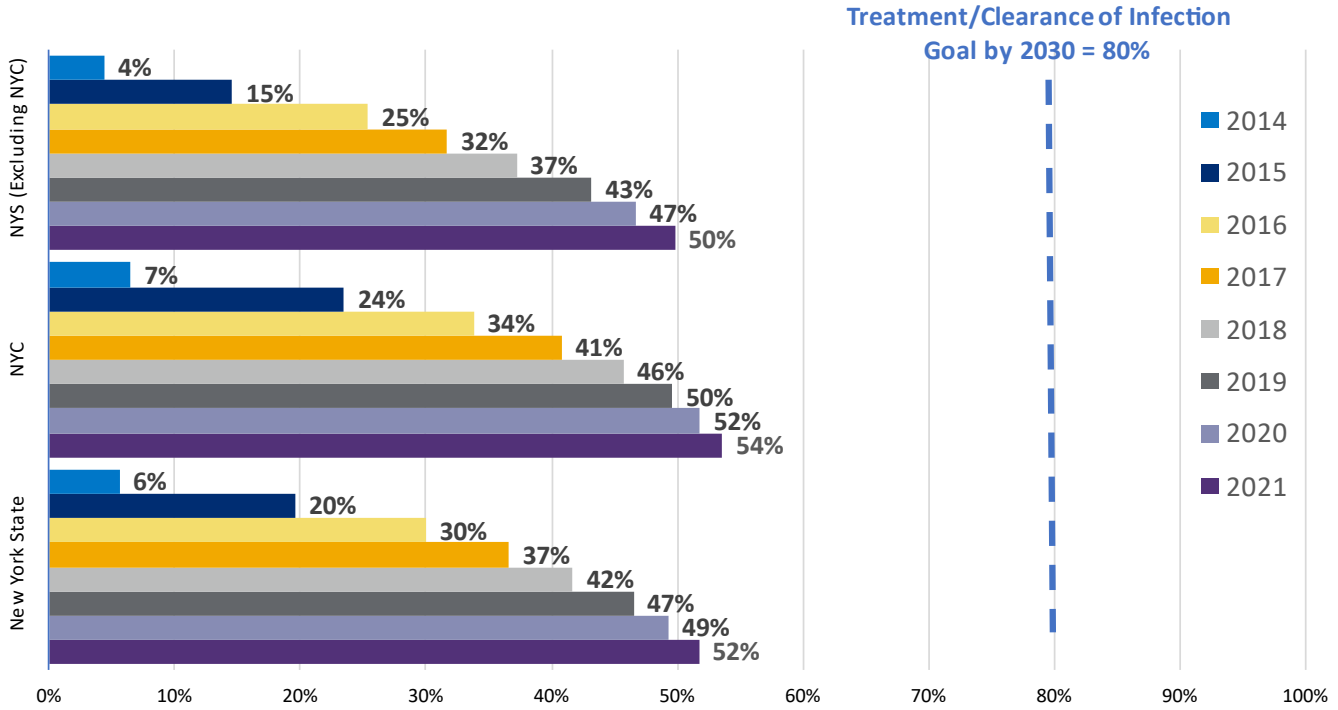
Cumulative Percent of Persons Diagnosed* with Hepatitis C Who Cleared** Infection by Geographic Area and Year of Clearance, NYS: 2014 -2021



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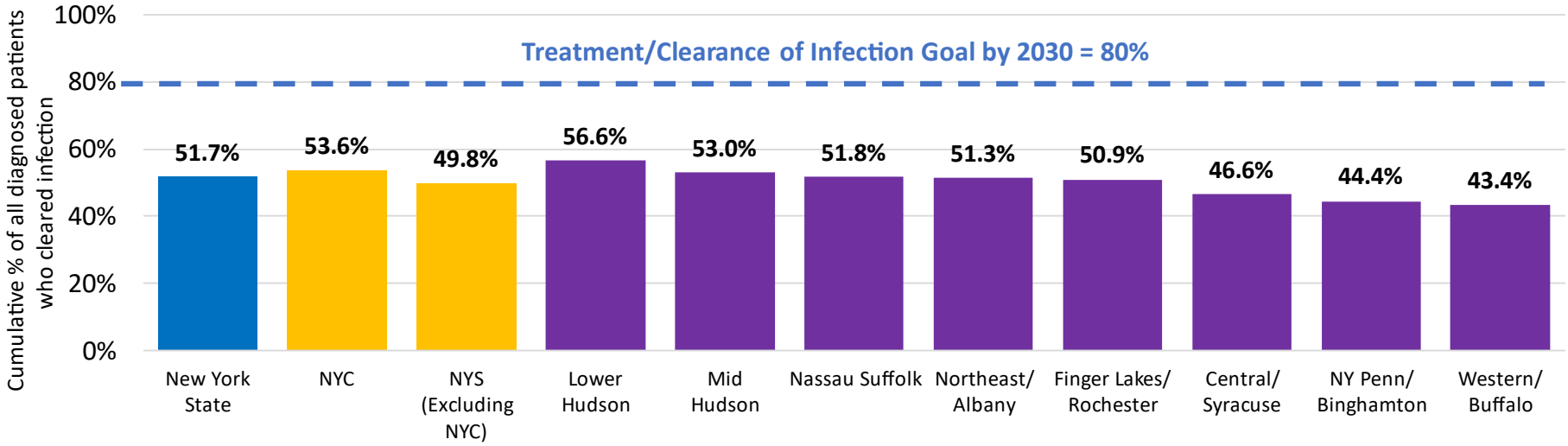
Percent of Persons Diagnosed* with Hepatitis C Who Cleared Infection** by End of 2021, by Geographic Region, NYS



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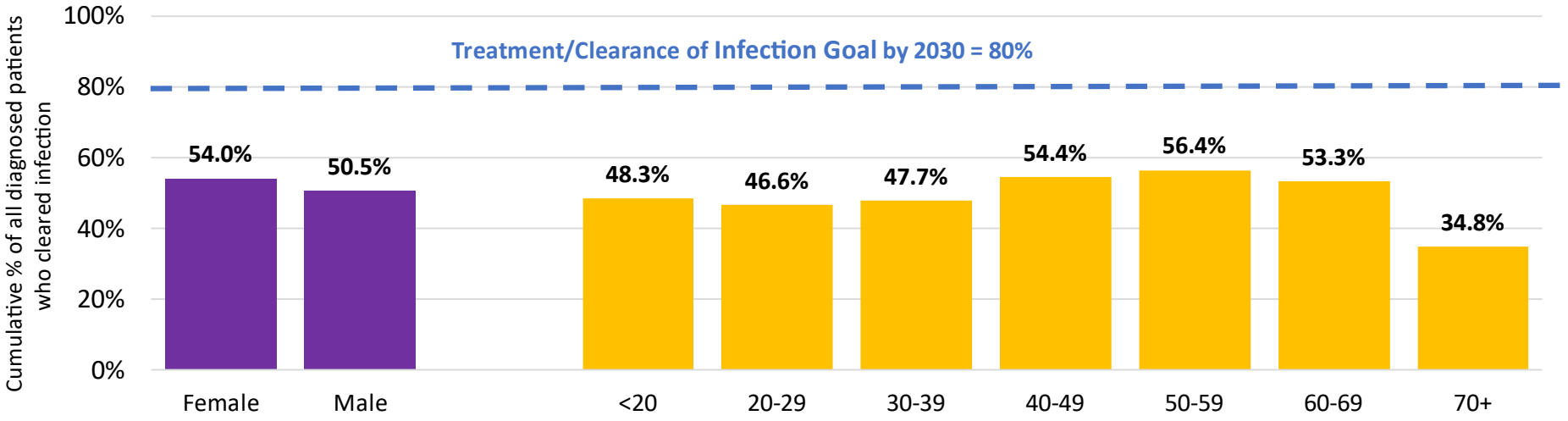
Percent of Persons Diagnosed* with Hepatitis C Since 2010 Who Cleared Infection** by End of 2021, by Sex*** and Age at Diagnosis, NYS



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*** Information on sex/gender is primarily obtained from laboratory reports, and may not reflect the gender identity of the individual. Five individuals were reported as transgender.

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New Infections Among PWID Metric

Current Methodology

Annual survey of PWID at SEPs

- Conducted at selected SEPs statewide
- Participants include SEP clients and non-SEP clients recruited using response driven sampling method and incentives.
- Questionnaire about injection drug using behaviors and access to HCV care.
- HCV testing (i.e., rapid antibody; RNA by dried blood spot (DBS))

HCV antibody avidity/recency assay

- PWID with detectable HCV RNA have a sample of the DBS used for the recency assay.
- Wadsworth conducted initial validation of the recency assay.

New Infections Among PWID Metric

Proposed New Methodology

Adopt indicators described in 2022 Viral Hepatitis National Progress Report

Estimate new HCV infections in general population

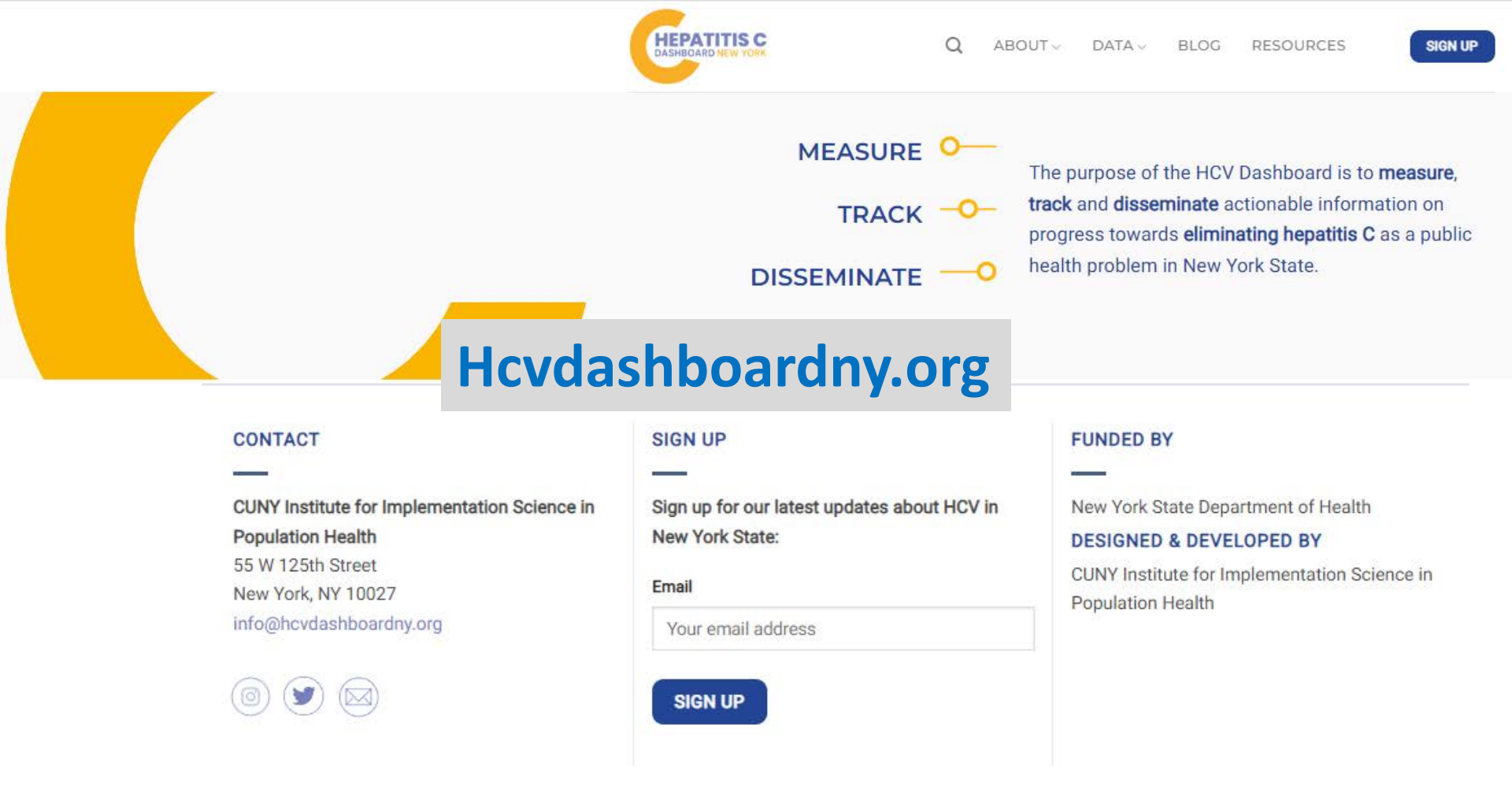
- Start with number of acute HCV cases reported to NYS DOH and NYC DOHMH.
- Account for under ascertainment and underreporting by applying a multiplier.
- Each reported case of acute hepatitis C represents 13.9 estimated infections.

Track new HCV infections in PWID population

- Use observed acute case rates in the 18-40 age group as a proxy for new infections in the PWID population.
- The multiplier used to estimate new infections in the general population is NOT applied.

Summary of Data

- Statewide, between 2010 and 2021, 189,749 people were diagnosed with HCV and 98,165 were cleared of their infection.
- Rates of HCV diagnoses are declining statewide, but since 2017 rates are higher in ROS than in NYC.
- Cumulative diagnoses from 2015-2021 are higher than the high-end estimated 2021 target.
- As of 2021, 51.7% of diagnosed people have cleared their infection (53.6% in NYC, 49.8% in ROS). The goal is to reach 80% by 2030.
- Treatment/clearance rates are increasing in all geographic regions, for all ages and for both males and females.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DASHBOARD NEW YORK
ABOUT
DATA
BLOG
RESOURCES
SIGN UP
MEASURE
TRACK
DISSEMINATE
The purpose of the HCV Dashboard is to measure, track and disseminate actionable information on progress towards eliminating hepatitis C as a public health problem in New York State.
Hcvdashboardny.org
CONTACT
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55 W 125th Street
New York, NY 10027
info@hcvdashboardny.org
SIGN UP
Sign up for our latest updates about HCV in New York State:
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FUNDED BY
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2021 Release of NYS Hep C Elimination Data Will Include:

Diagnosis and Treatment/Clearance Metrics, Geographic & Demographic Stratifications: 2010-2021

Geographic Area	Total	Age: (<20, 10 Year Age Groups, 70+)	Age: (<40/40+)	Sex (Male/Female)	Sex and Age in Combination
Statewide	√	√		√	√ (excluding <20)
NYS (Excluding NYC)	√	√		√	√ (excluding <20)
Region (Excluding NYC)	√	√		√	√ (excluding <20)
County (Excluding NYC)	√		√	√	
NYC	√	√		√	√ (excluding <20)
NYC Borough	√	√		√	√ (excluding <20)
NYC Neighborhood Tabulation Area (NTA)	√				

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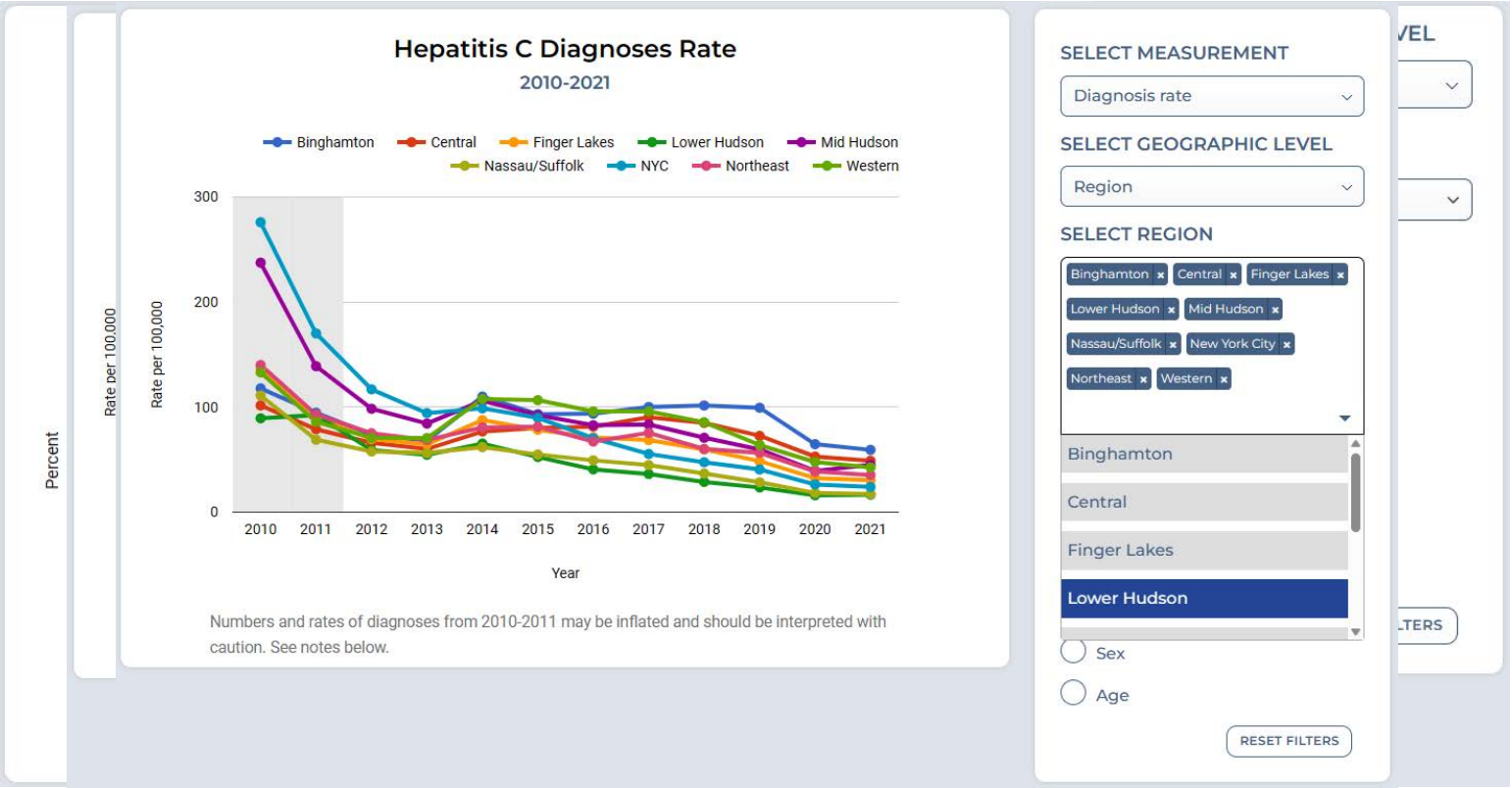

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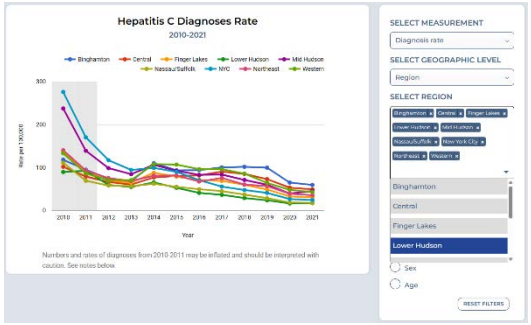

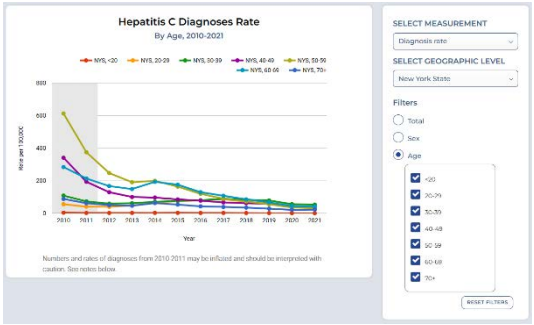

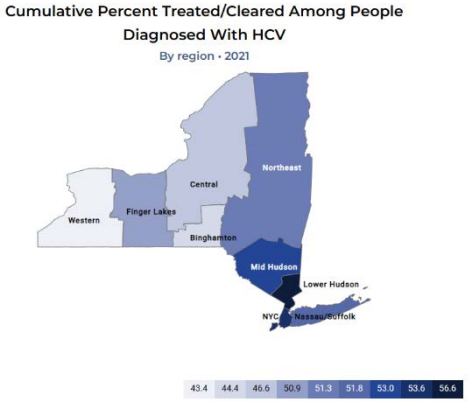

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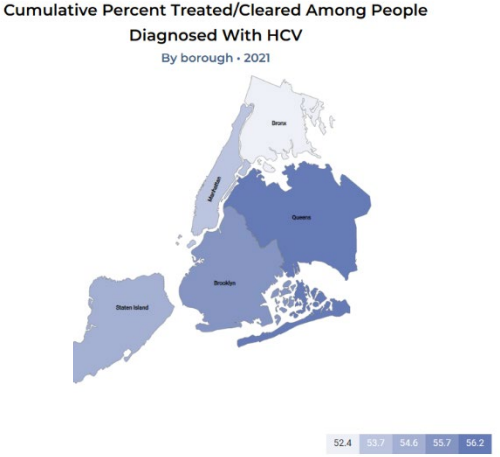

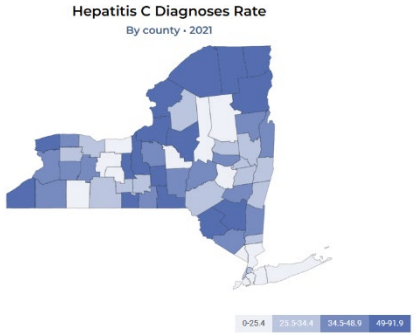

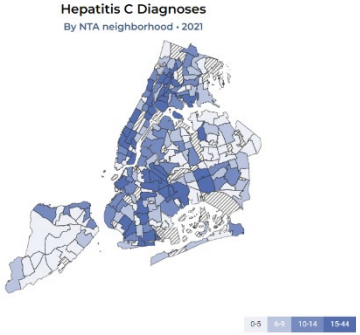

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