Opioid Use Disorder and Opioid Overdose Trends: Insights from the FAIR Health Repository

Donna Smith, Chief Client Officer

FAIR Health®
Know Your Source

National, independent nonprofit with the country's largest collection of private healthcare claims

A CMS Qualified Entity with entire Medicare collection

April 27, 2023

FAIR Health Mission

- FAIR Health is a national, independent 501(c)(3) nonprofit organization dedicated to bringing transparency to healthcare costs and health insurance information through data products, consumer resources and health systems research support

- FAIR Health provides fair and neutral information to all those we serve, including consumers, payors, providers, researchers, government entities and more

The FAIR Health Private Claims Repository

41+ Billion Medical and Dental Claims from 2002 to the Present
Updated on a monthly basis

2+ Billion New Claims Every Year

493 Regions in the United States

Nationwide Coverage

70+ Contributors

Quality Testing and Control

Includes Medicare Advantage Claims

Complete collection of Medicare Parts A, B and D claims data for all 50 states and Washington, DC

Entrusted with QE data due to national breadth of FH private claims/state-of-the-art security protections
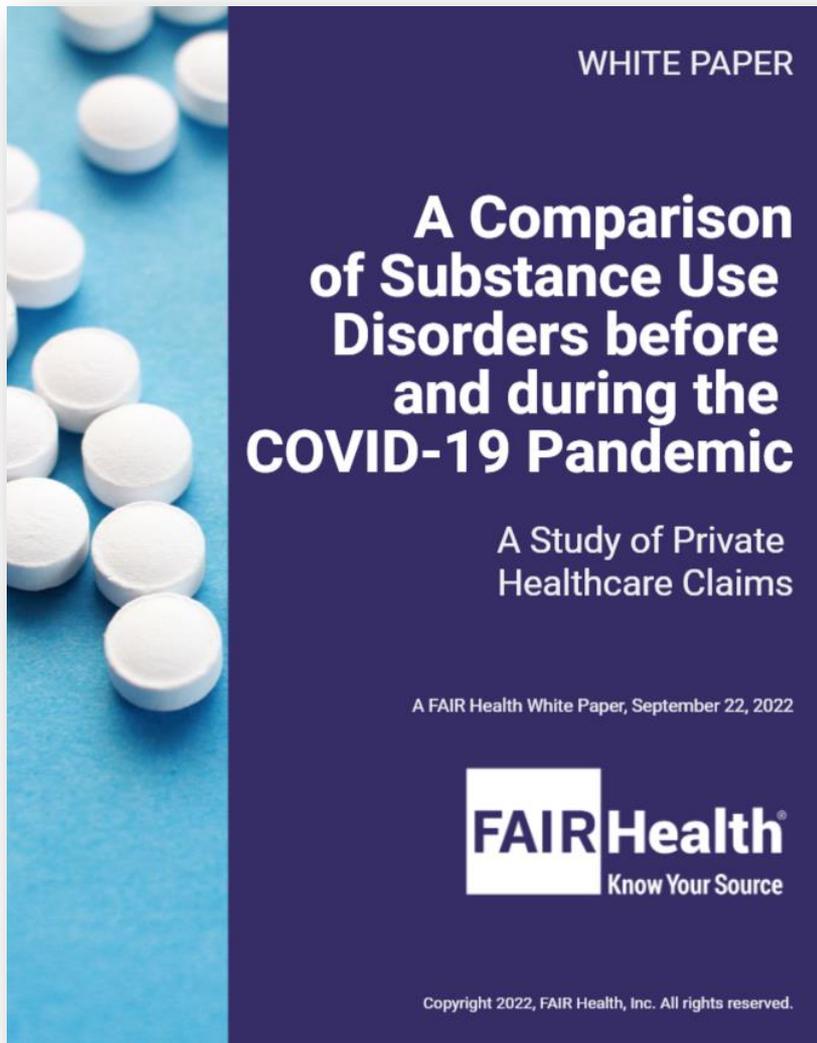
Medicare data from 2013 to present

42+ billion Medicare claims

Federal Agencies and Officials Seek Data and Educational Assistance from FAIR Health

FAIR Health State Fee Schedule Support

Legend

- 🔵 Workers' Compensation Fee Schedule Assistance, Research and/or Analysis
- 🟠 Surprise Billing
- 🟢 Crime Victims' Compensation Program
- 🟣 Auto Liability | Personal Injury Protection (PIP) Fee Schedule
- 🟦 Ground and Air Ambulance Rates State Study
- 🔴 Emergency Care for Low-Income Patients
- 🟡 Additional State Fee Schedules
  - **New Hampshire:** Vocational Rehabilitation Fee Schedule
  - **Washington State:** Two public health program fee schedules: the Breast, Cervical and Colon Health Program (BCCHP) and WISEWOMAN program
  - **New York:** Medical Indemnity Fund for birth-related neurological injuries

White Paper on Substance Use Disorders

WHITE PAPER

A Comparison of Substance Use Disorders before and during the COVID-19 Pandemic

A Study of Private Healthcare Claims

A FAIR Health White Paper, September 22, 2022

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On September 22, 2022, FAIR Health released a white paper that analyzed substance use disorders and overdoses prior to the COVID-19 pandemic as compared to during the pandemic

The analysis, which spanned from 2016 to 2021, covered trends in the percentage of patients with a substance use disorder or overdose diagnosis, as well as age, gender, incidence, relevant substances, states, preexisting mental health conditions, venues of care and provider specialties
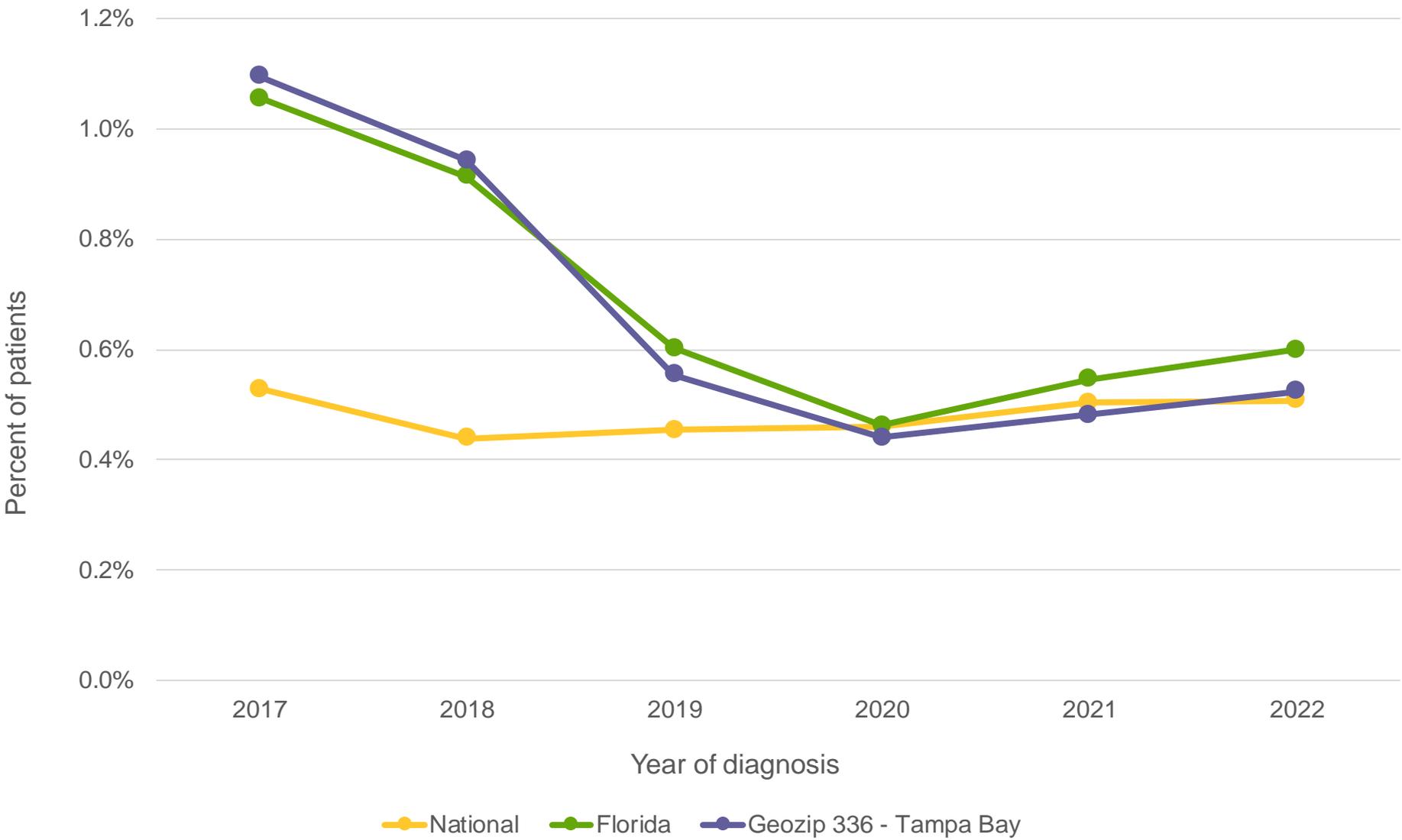
Opioid Use Disorders

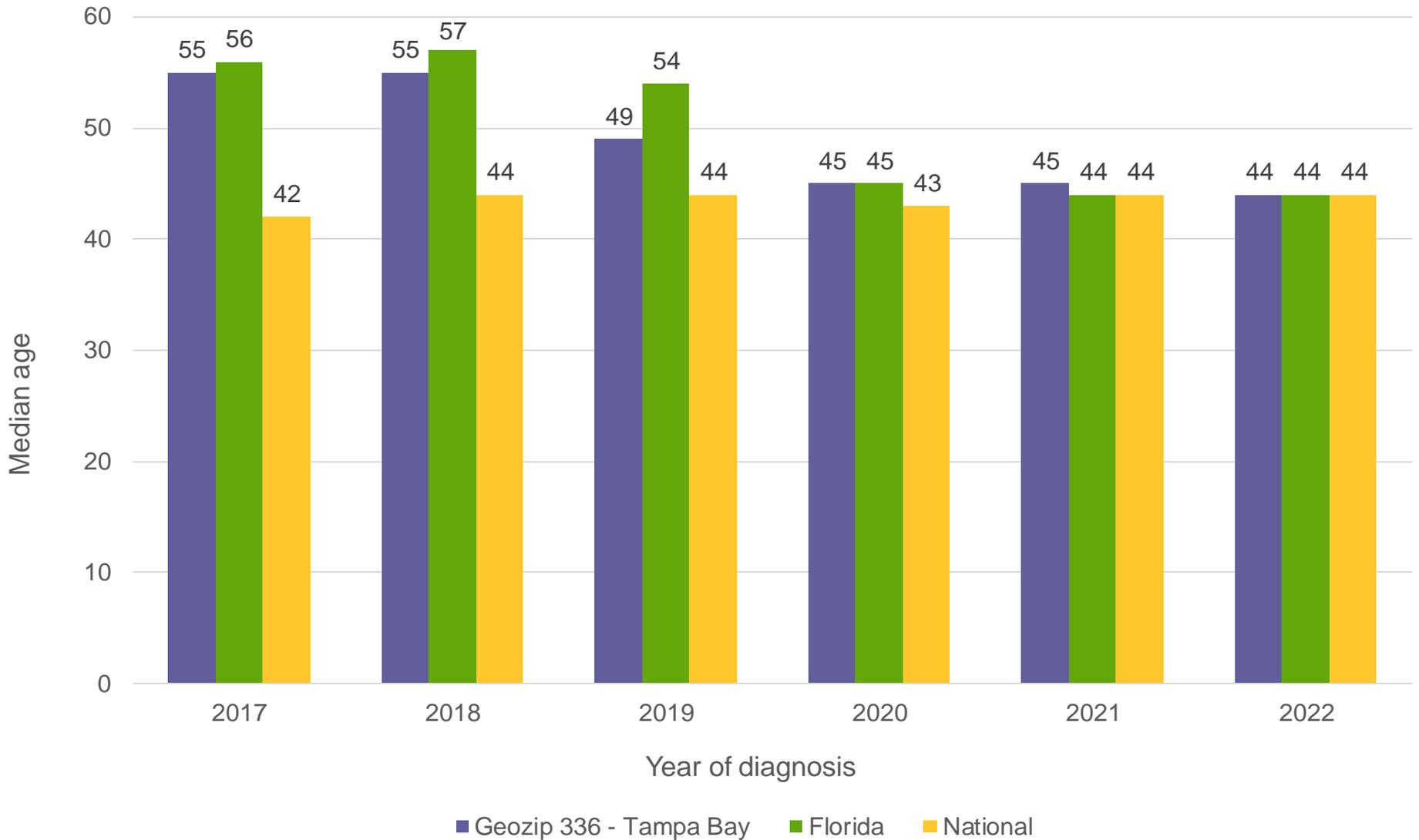FAIRHealth
Know Your Source   FH
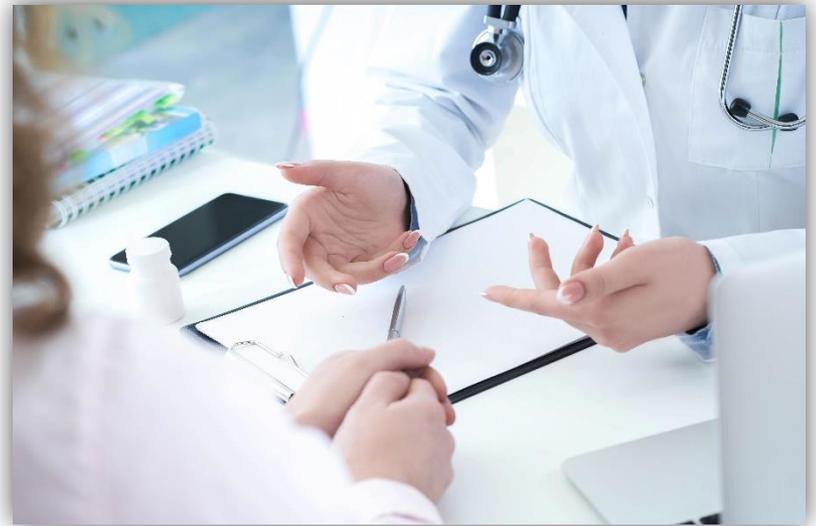
Overview: Opioid Use Disorder Trends

- Trends were viewed at a national, state and local level
  - A focus was placed on geozip 336 – Tampa Bay

- Data were analyzed by different demographics:
  - Age
  - Gender

- Data from patients with an opioid use disorder included:
  - Top procedure codes
  - ER visits and hospitalizations
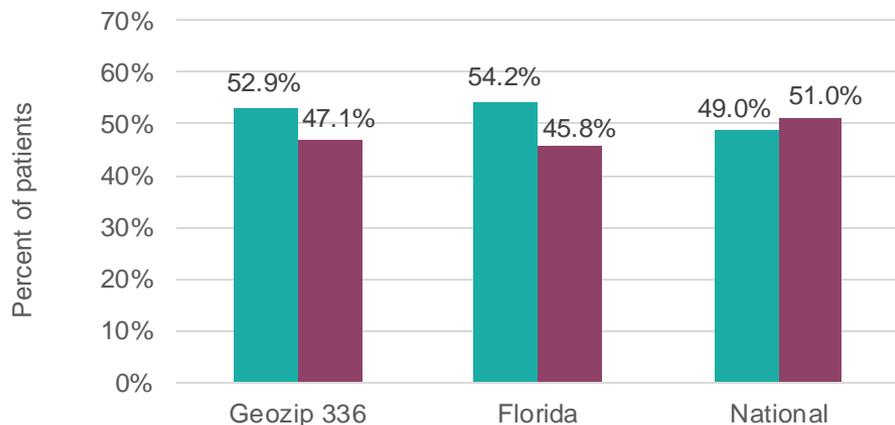
Patients with an Opioid Use Disorder Diagnosis, 2017-2022

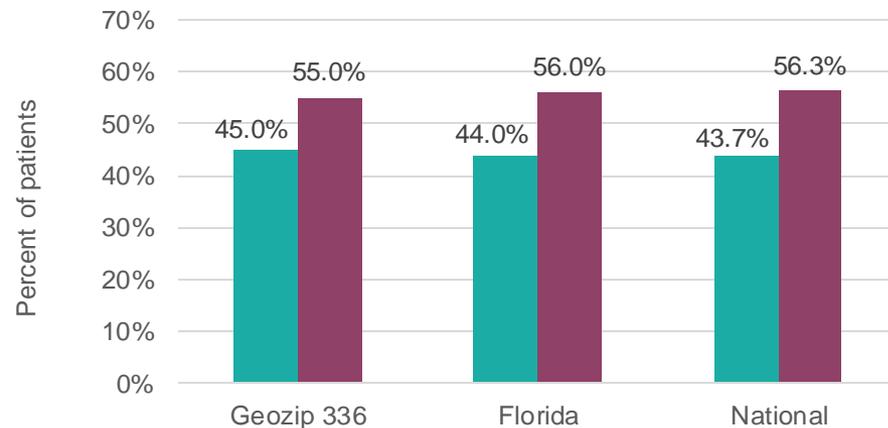# Median Age of Patients with Opioid Use Disorder Diagnoses, 2017-2022

Median age

Year of diagnosis	Geozip 336 - Tampa Bay	Florida	National
2017	55	56	42
2018	55	57	44
2019	49	54	44
2020	45	45	43
2021	45	44	44
2022	44	44	44

■ Geozip 336 - Tampa Bay   ■ Florida   ■ National

Gender of Patients with Opioid Use Diagnosis, 2019-2022
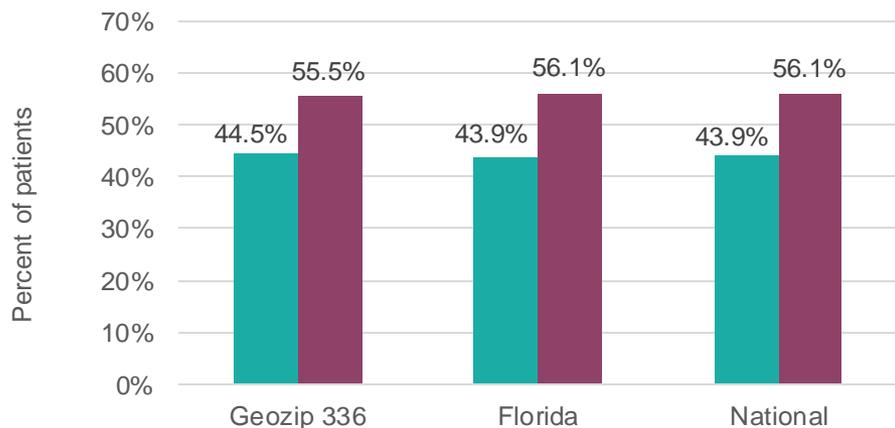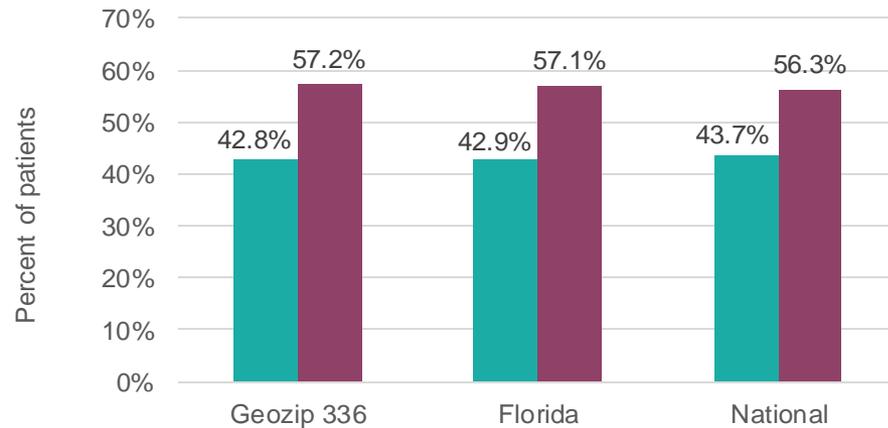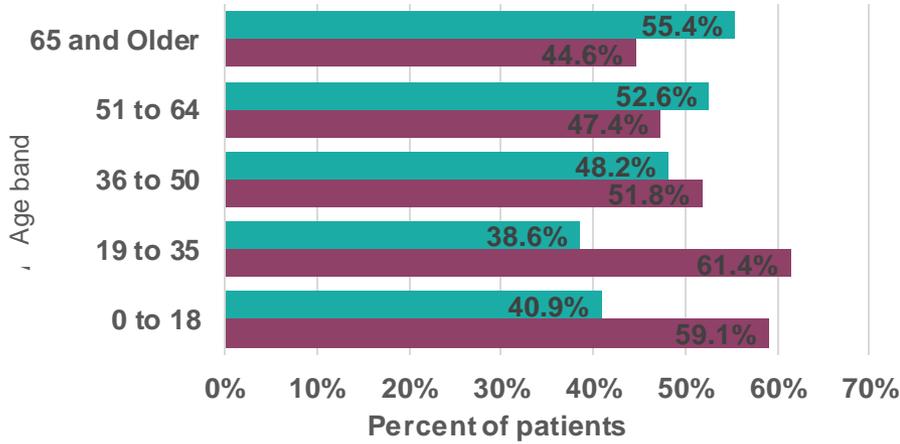
Opioid Use Disorder by Age and Gender, 2017-2022

National

Age band	Female	Male
65 and Older	55.4%	44.6%
51 to 64	52.6%	47.4%
36 to 50	48.2%	51.8%
19 to 35	38.6%	61.4%
0 to 18	40.9%	59.1%

Percent of patients

Florida

Age band	Female	Male
65 and Older	56.3%	43.7%
51 to 64	50.6%	49.4%
36 to 50	42.4%	57.6%
19 to 35	35.0%	65.0%
0 to 18	35.0%	65.0%

Percent of patients

Geozip 336 – Tampa Bay

Age band	Female	Male
65 and Older	55.1%	44.9%
51 to 64	49.1%	50.9%
36 to 50	42.8%	57.2%
19 to 35	38.2%	61.8%
0 to 18	40.0%	60.0%

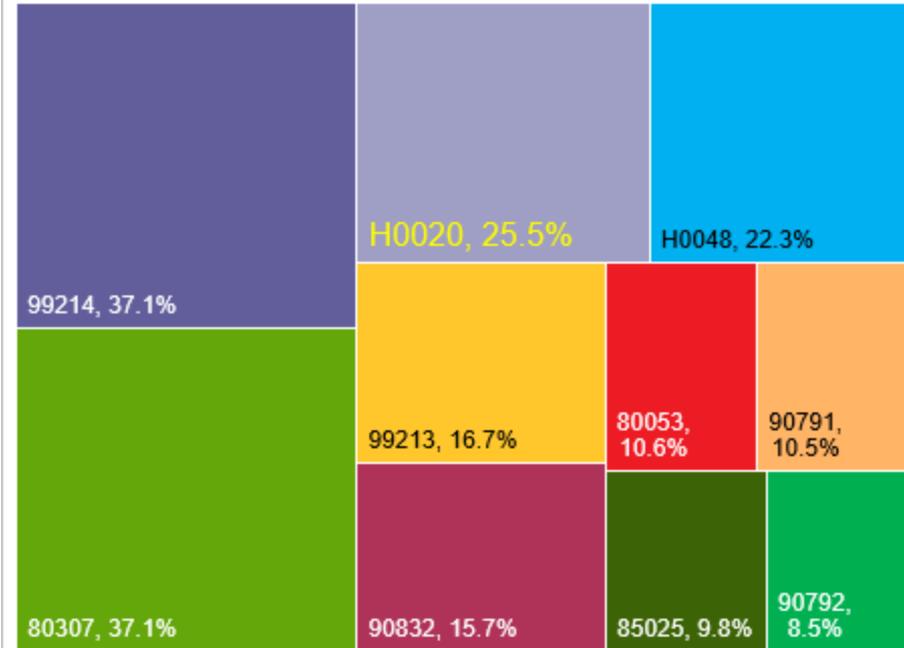Percent of patients

■ Female ■ Male
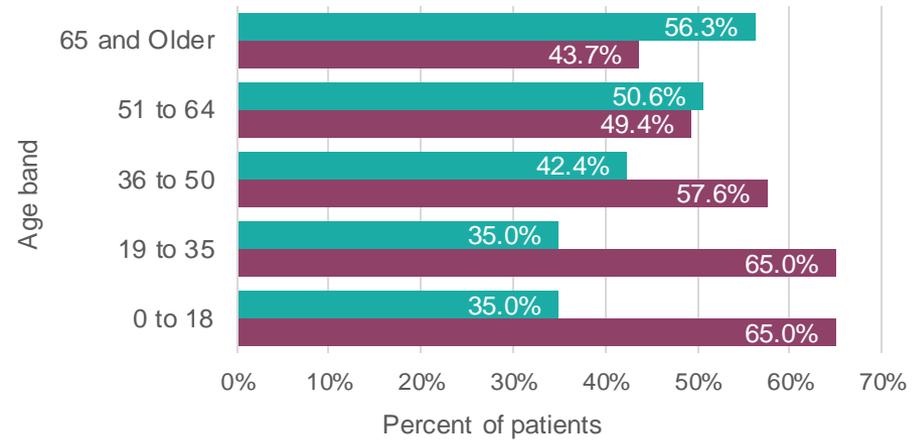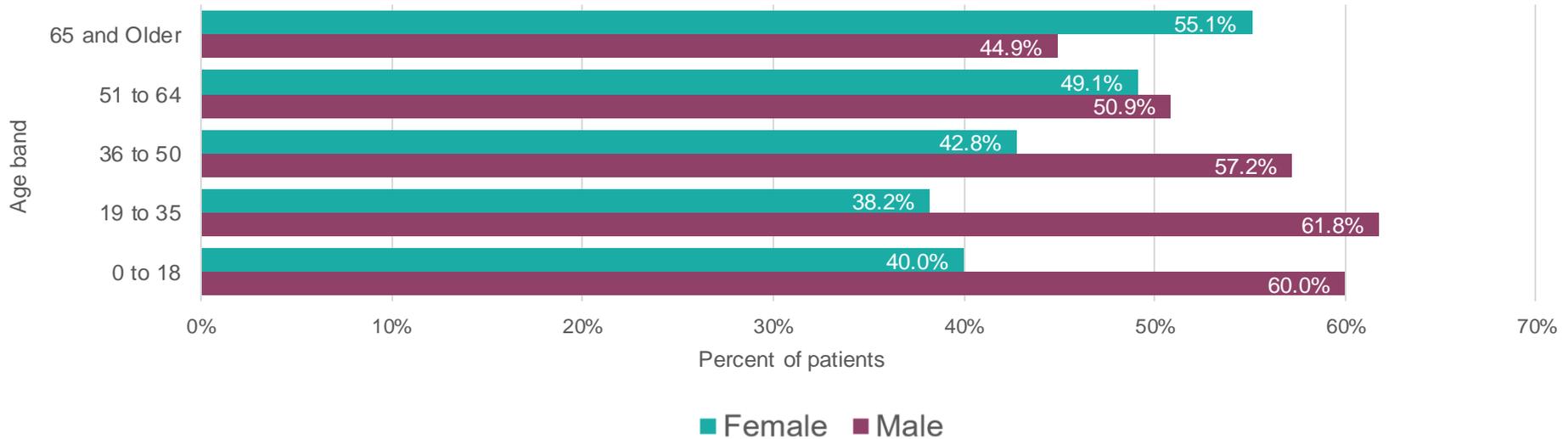
Top Procedure Codes, Opioid Use Disorders, 2022
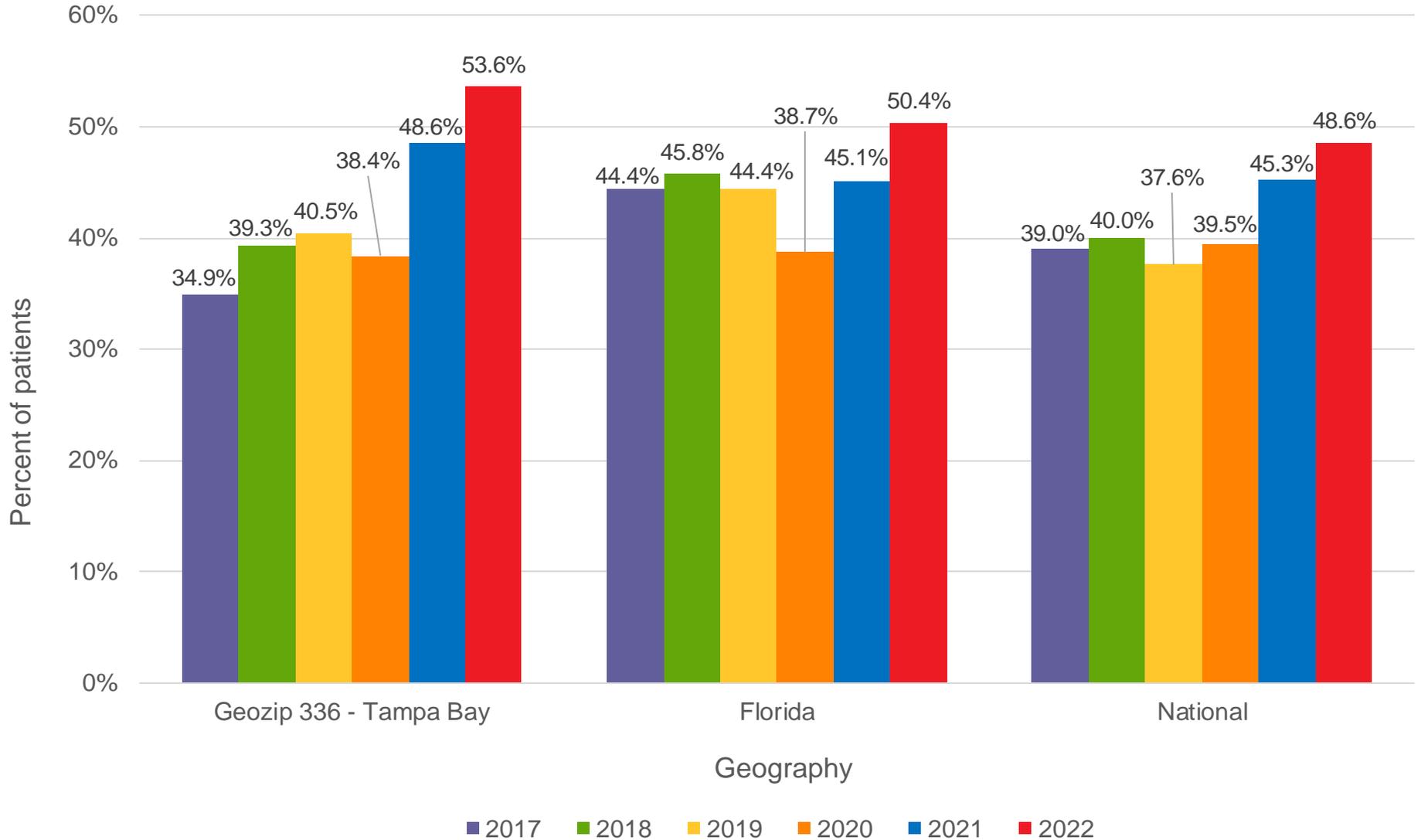

National
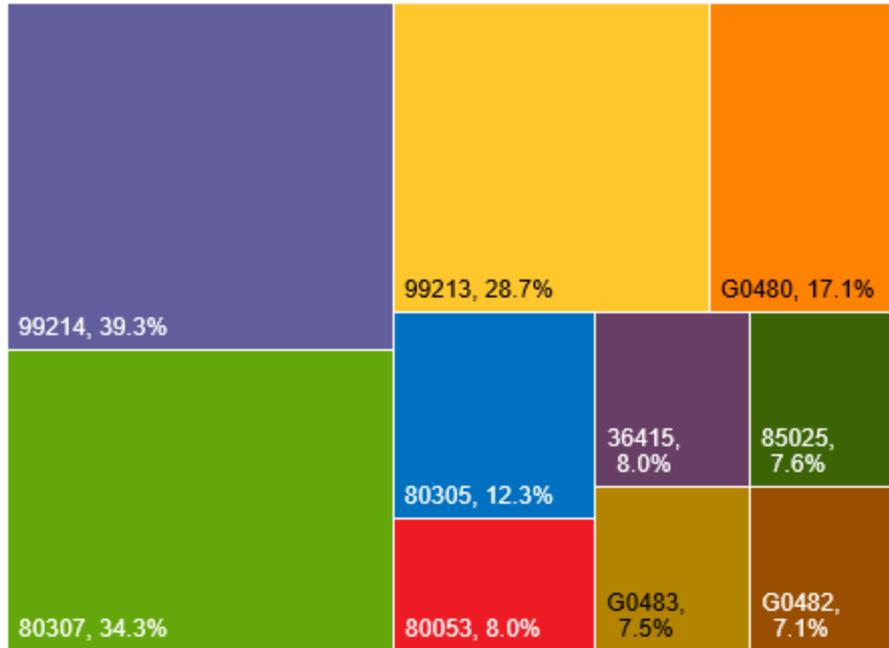
| Procedure Code	Description
36415	Insertion of needle into vein for collection of blood sample
80053	Blood test, comprehensive group of blood chemicals
80305	Testing for presence of drug, read by direct observation
80307	Testing for presence of drug, by chemistry analyzers
85025	Complete blood cell count
90791	Psychiatric diagnostic evaluation
90792	Psychiatric diagnostic evaluation with medical services
90832	Psychotherapy, 30 minutes

Florida

Procedure Code	Description
99213	Estab. patient office or other outpatient visit, 20-29 minutes
99214	Estab. patient office or other outpatient visit, 30-39 minutes
G0480	Definitive drug testing, 1-7 classes
G0482	Definitive drug testing, 15-21 classes
G0483	Definitive drug testing, 22+ classes
H0020	Methadone administration and/or service
H0048	Alcohol and/or other drug testing: collection/handling, not blood

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Emergency Room Visits among Patients with an Opioid Use Disorder, 2017-2022

Percent of patients

Geography

| 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |

Year is the year of ER visit

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Hospitalizations among Patients with an Opioid Use Disorder, 2017-2022
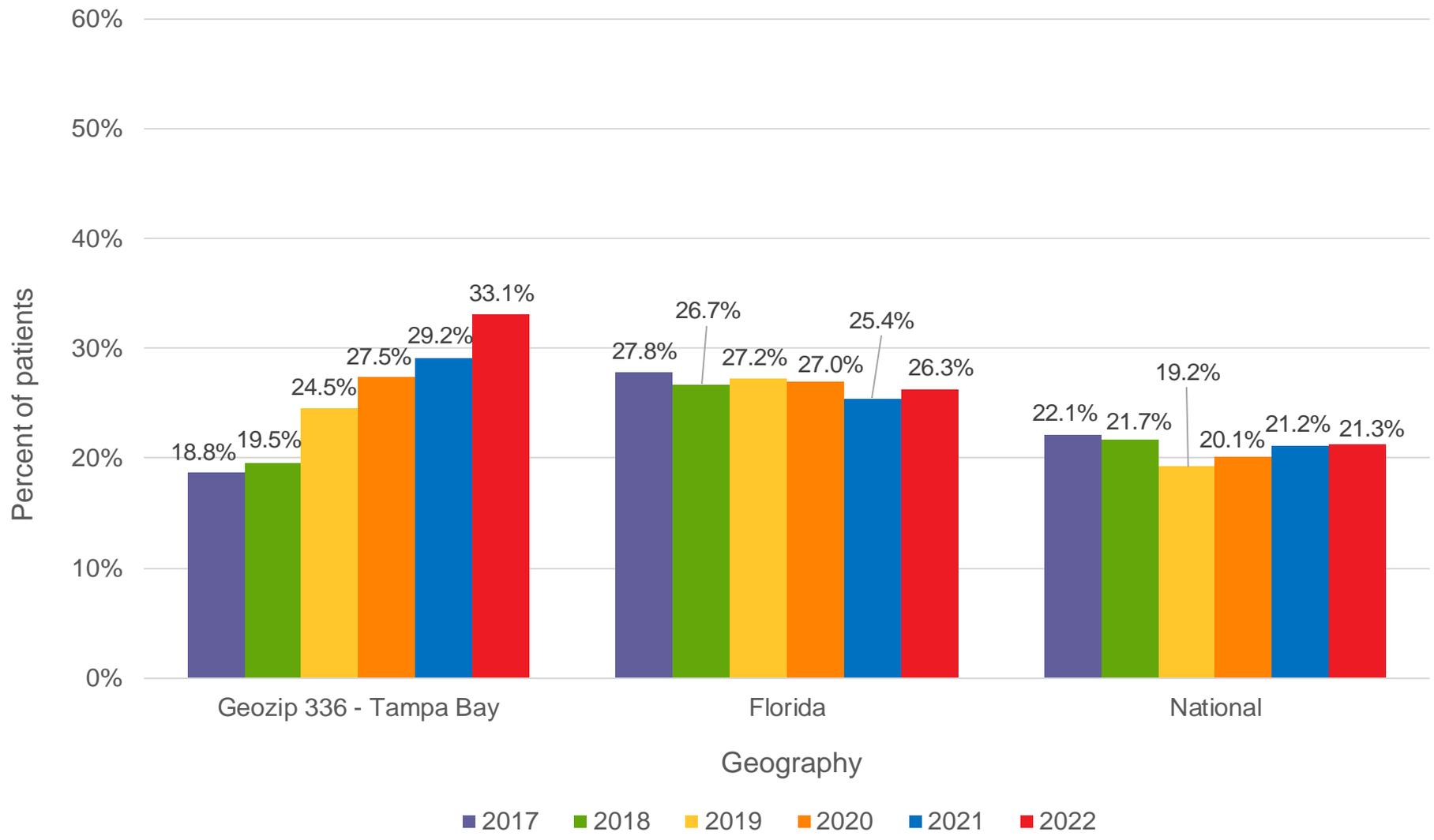

Year is the year of hospitalization

Opioid Overdoses

Overview: Opioid Overdose Trends

- Trends were viewed at a national, state and local level
  - A focus was placed on geozip 336 – Tampa Bay

- Data were analyzed by different demographics:
  - Age
  - Gender

- Data from patients with an opioid or opioid-like overdose included:
  - Opioid vs. fentanyl overdoses
  - Top procedure codes
  - ER visits and hospitalizations
  - Overdoses among opioid use disorder patients
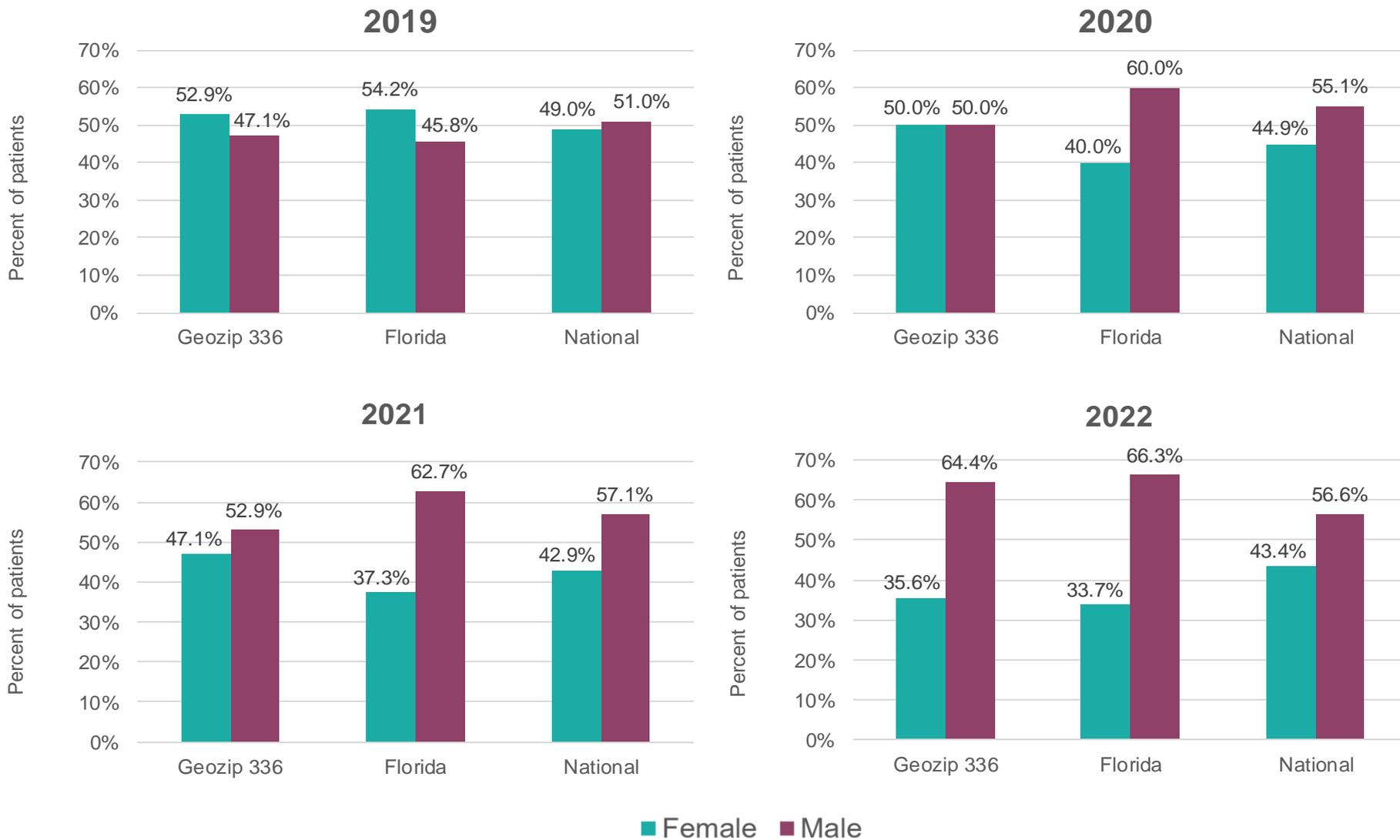 - Mortality rates

Patients with an Opioid Overdose Diagnosis, 2017-2022
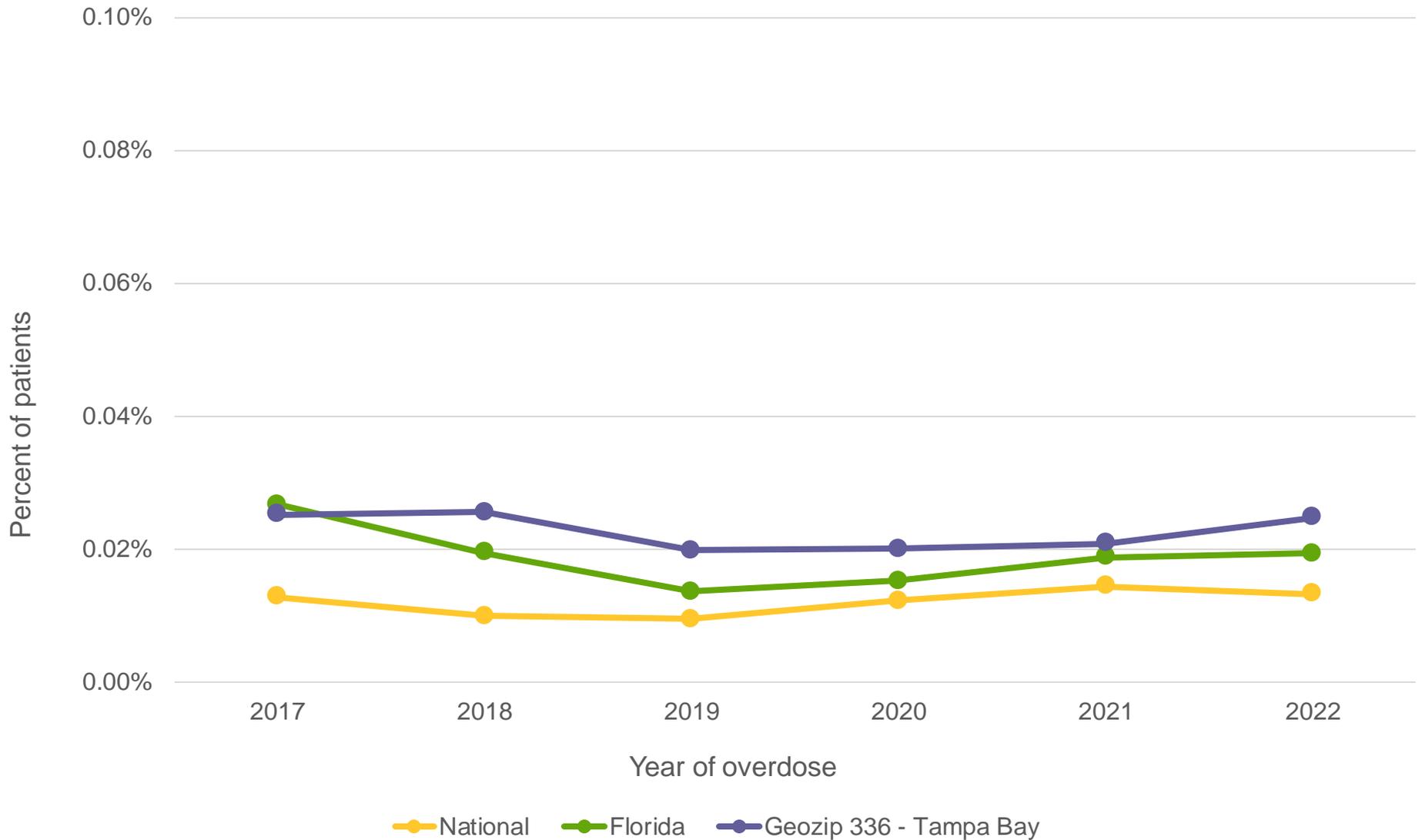
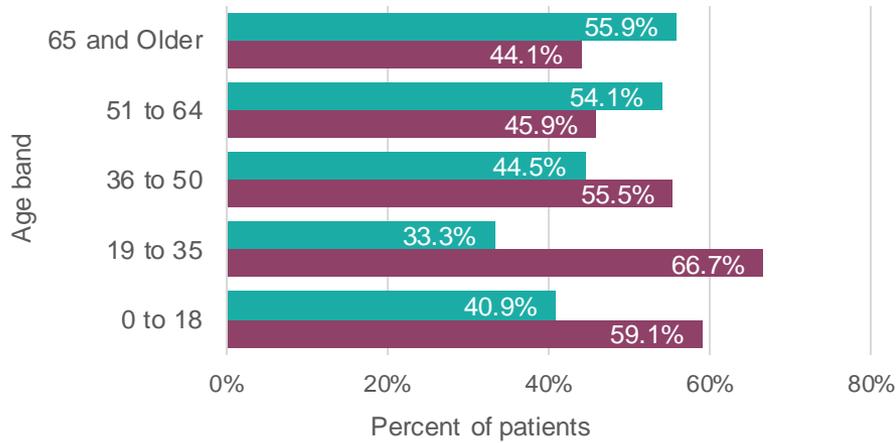Median Age of Patients with Opioid and Opioid-Like Overdoses, 2017-2022
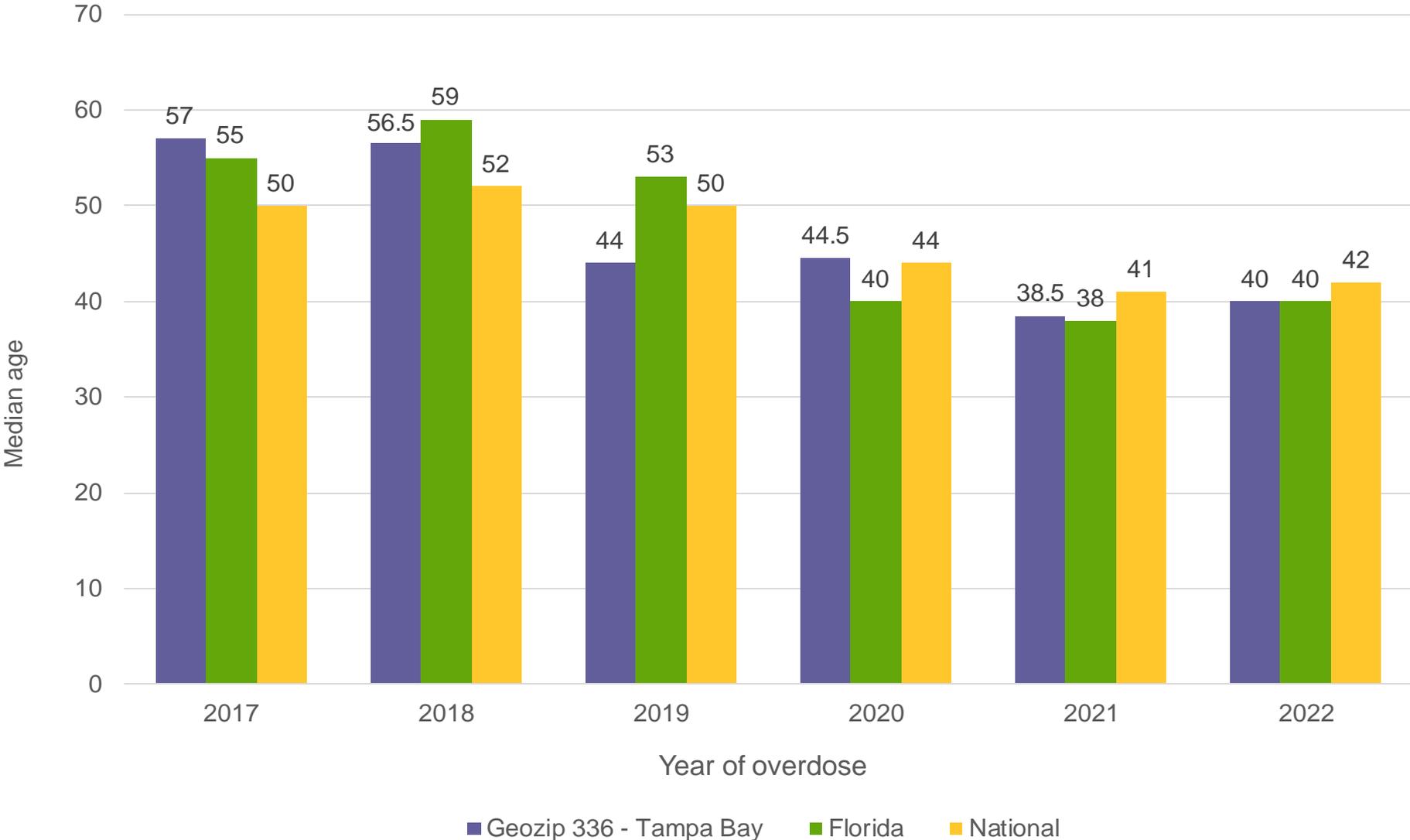
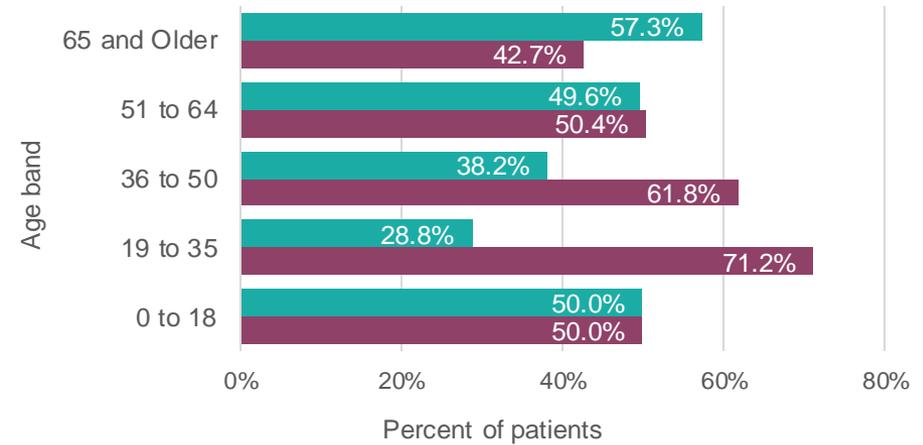# Gender of Patients with Opioid and Opioid-Like Overdoses, 2019-2022

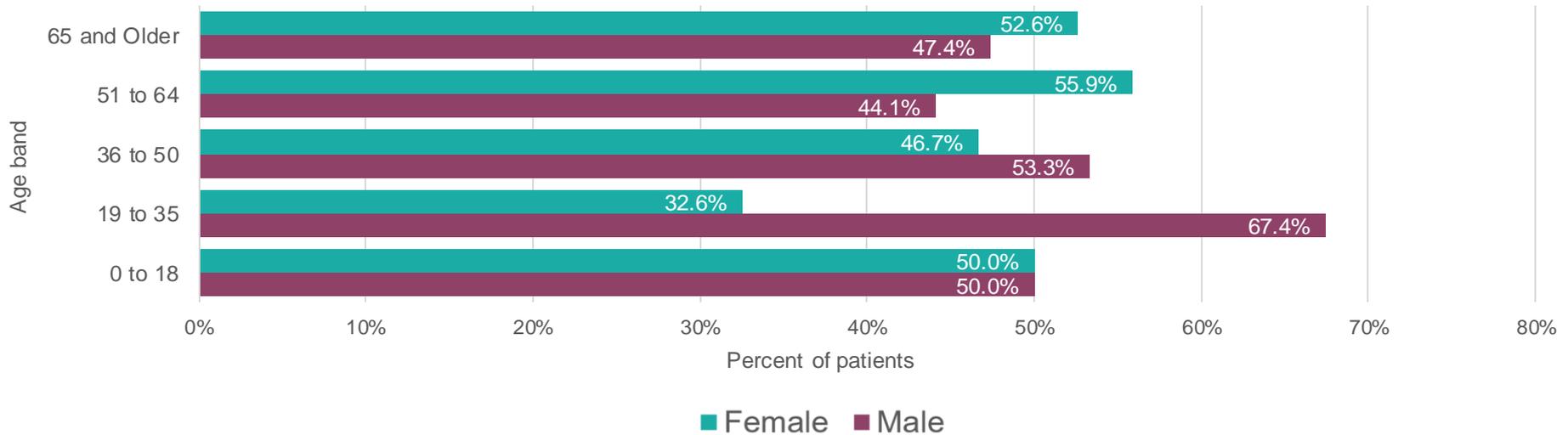# Opioid and Opioid-Like Overdoses, by Gender and Age, 2017-2022

National
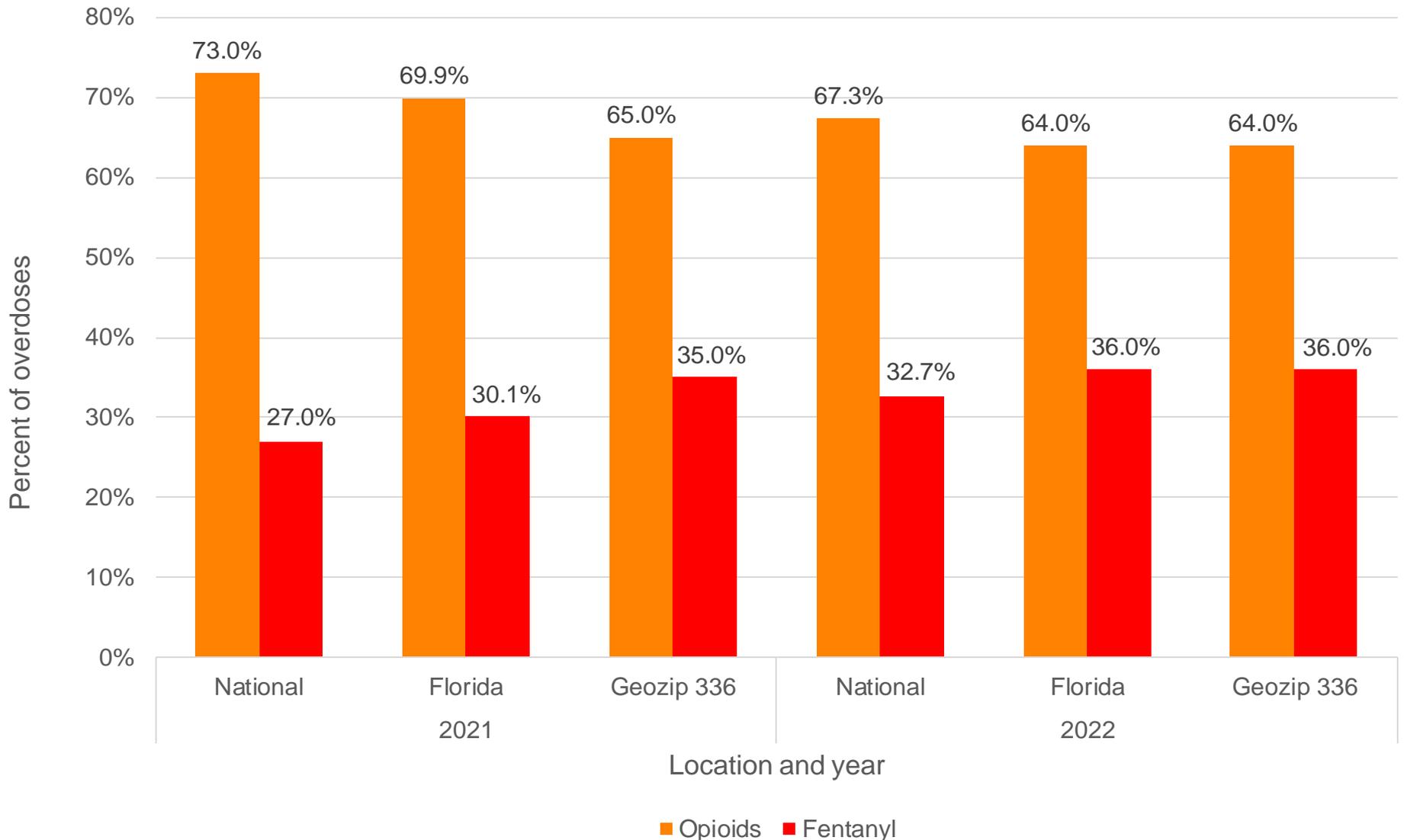
Age band		
65 and Older	Female 55.9%	Male 44.1%
51 to 64	Female 54.1%	Male 45.9%
36 to 50	Female 44.5%	Male 55.5%
19 to 35	Female 33.3%	Male 66.7%
0 to 18	Female 40.9%	Male 59.1%

Percent of patients

Florida

Age band		
65 and Older	Female 57.3%	Male 42.7%
51 to 64	Female 49.6%	Male 50.4%
36 to 50	Female 38.2%	Male 61.8%
19 to 35	Female 28.8%	Male 71.2%
0 to 18	Female 50.0%	Male 50.0%

Percent of patients

Geozip 336 – Tampa Bay

Age band		
65 and Older	Female 52.6%	Male 47.4%
51 to 64	Female 55.9%	Male 44.1%
36 to 50	Female 46.7%	Male 53.3%
19 to 35	Female 32.6%	Male 67.4%
0 to 18	Female 50.0%	Male 50.0%

Percent of patients

■ Female ■ Male

Opioid vs. Fentanyl Overdoses, 2021-2022

Percent of overdoses (y-axis)

Location and year (x-axis)

2021:
- National: Opioids 73.0%, Fentanyl 27.0%
- Florida: Opioids 69.9%, Fentanyl 30.1%
- Geozip 336: Opioids 65.0%, Fentanyl 35.0%

2022:
- National: Opioids 67.3%, Fentanyl 32.7%
- Florida: Opioids 64.0%, Fentanyl 36.0%
- Geozip 336: Opioids 64.0%, Fentanyl 36.0%

Legend: ■ Opioids ■ Fentanyl

Top Procedure Codes, Opioid and Opioid-Like Overdoses, 2022


National
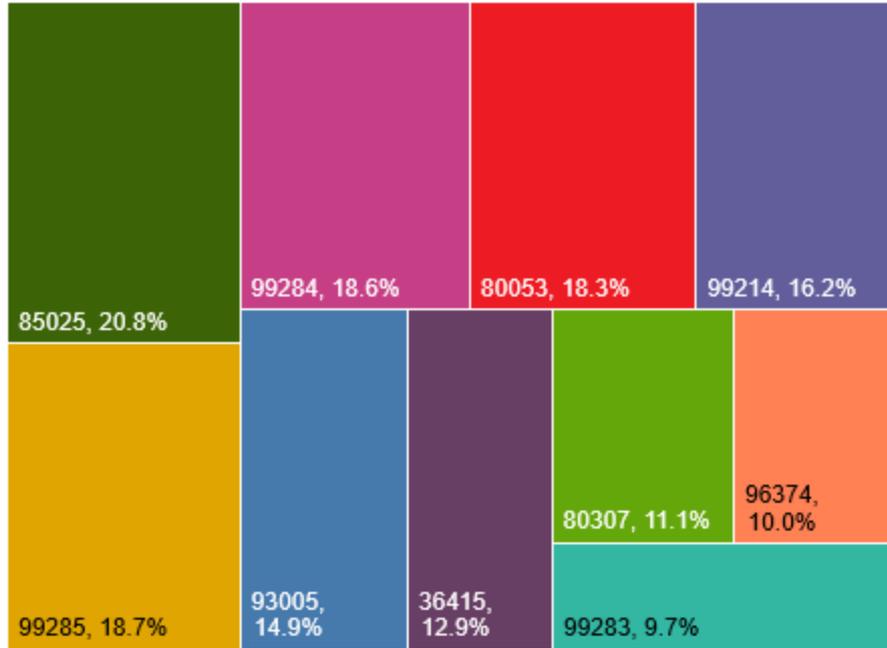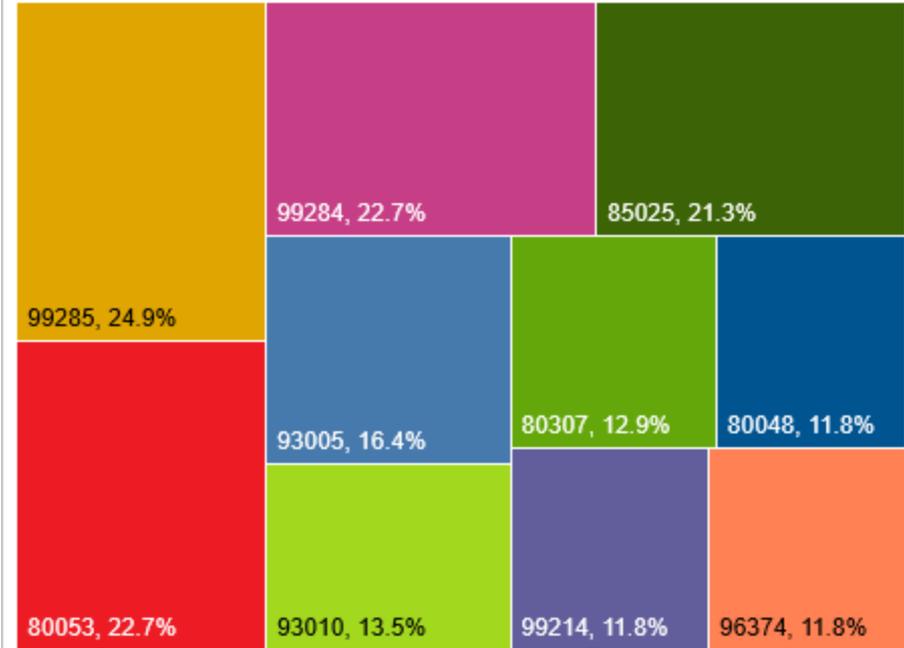
Procedure Code	Description
36415	Insertion of needle into vein for collection of blood sample
80048	Blood test, basic group of blood chemicals (Calcium, total)
80053	Blood test, comprehensive group of blood chemicals
80307	Testing for presence of drug, by chemistry analyzers
85025	**Complete blood cell count**
93005	Routine electrocardiogram (ECG) using at least 12 leads with tracing

Florida

Procedure Code	Description
93010	Routine electrocardiogram (ECG) using at least 12 leads with interpretation and report only
96374	Injection of drug or substance into vein
99214	Established patient office or other outpatient visit, 30-39 minutes
99283	Emergency department visit with low level of medical decision making
99284	Emergency department visit with moderate level of medical decision making
99285	Emergency department visit with high level of medical decision making

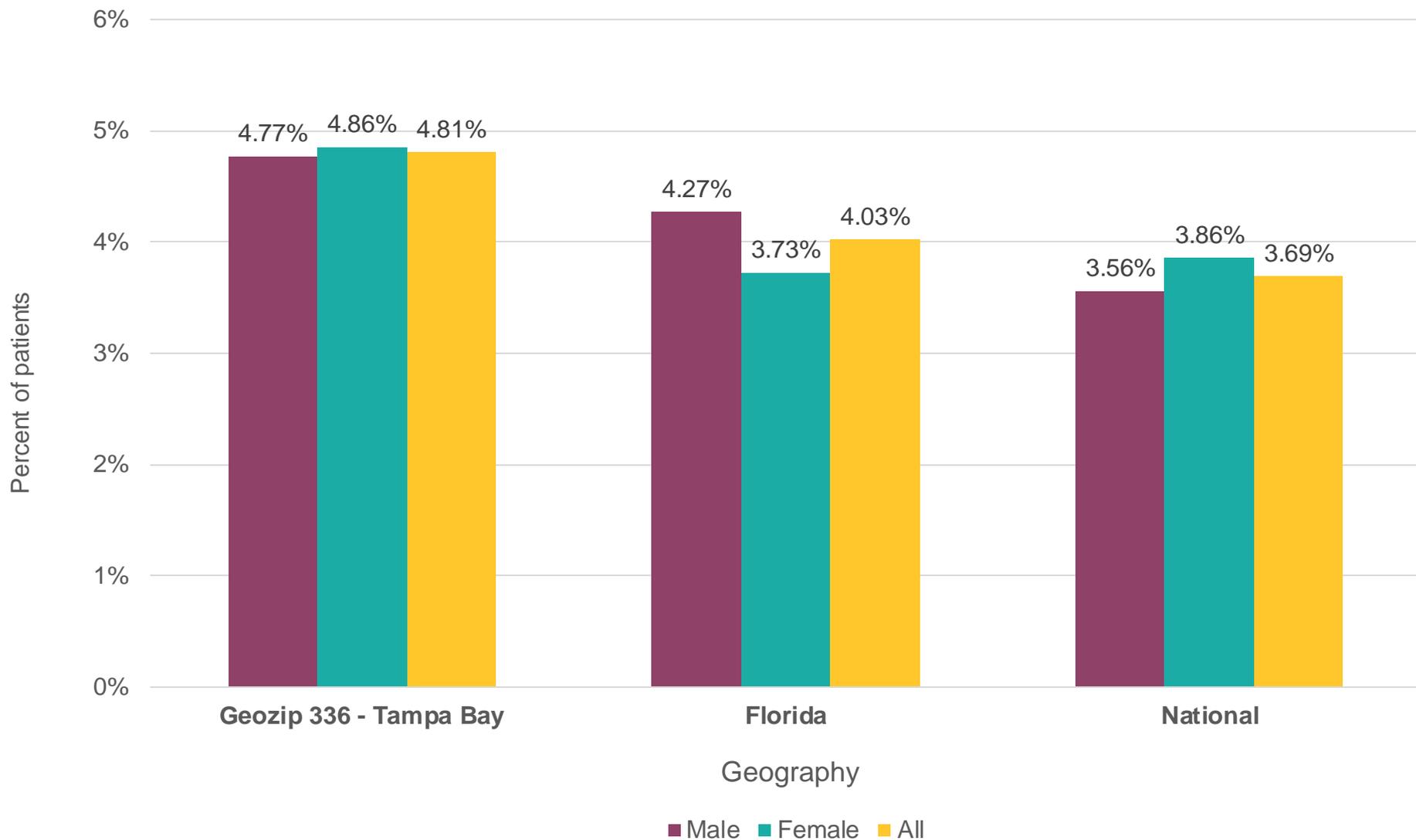ER Visits among Opioid Overdose Patients, 2018-2022
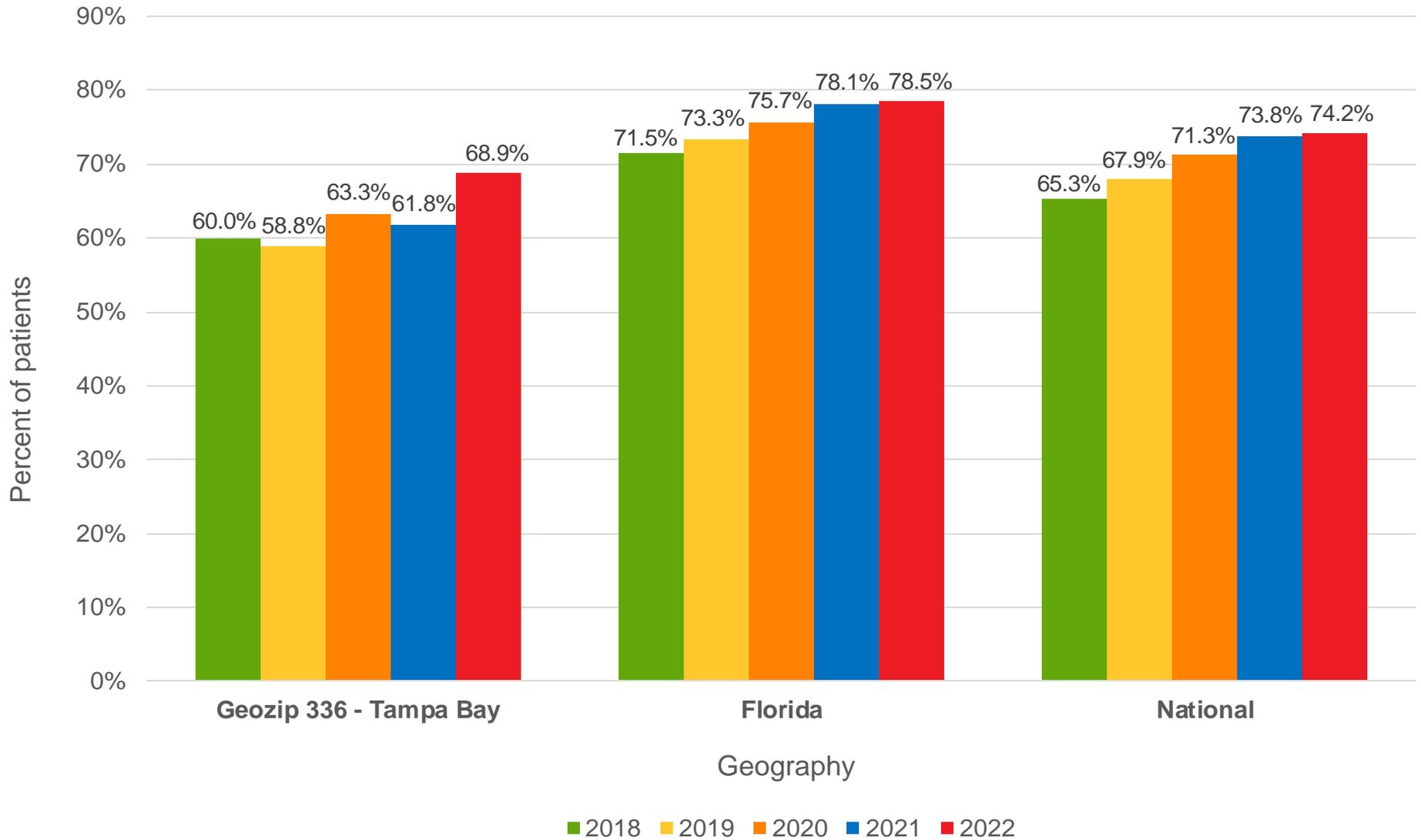
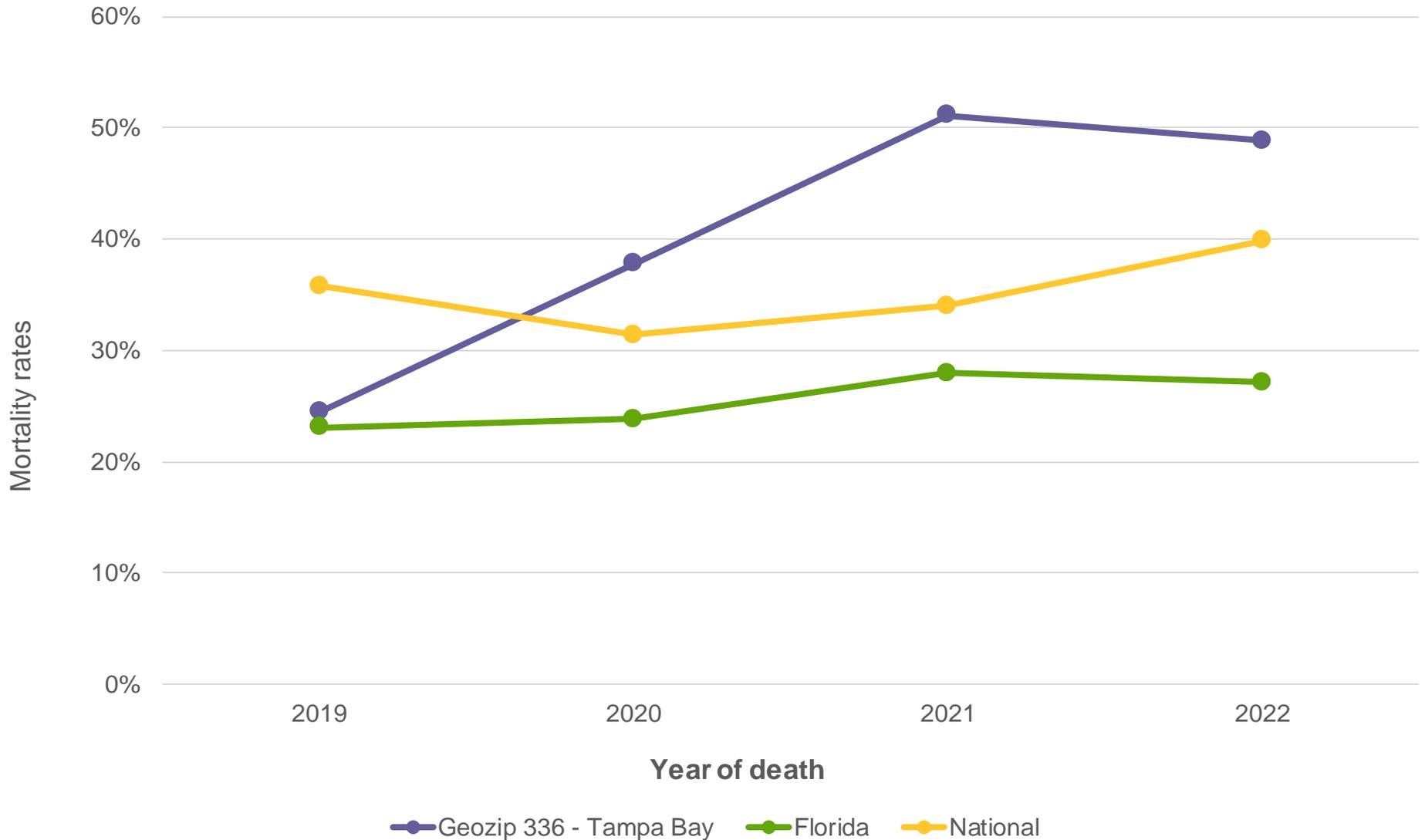Hospitalizations among Opioid Overdose Patients, 2018-2022
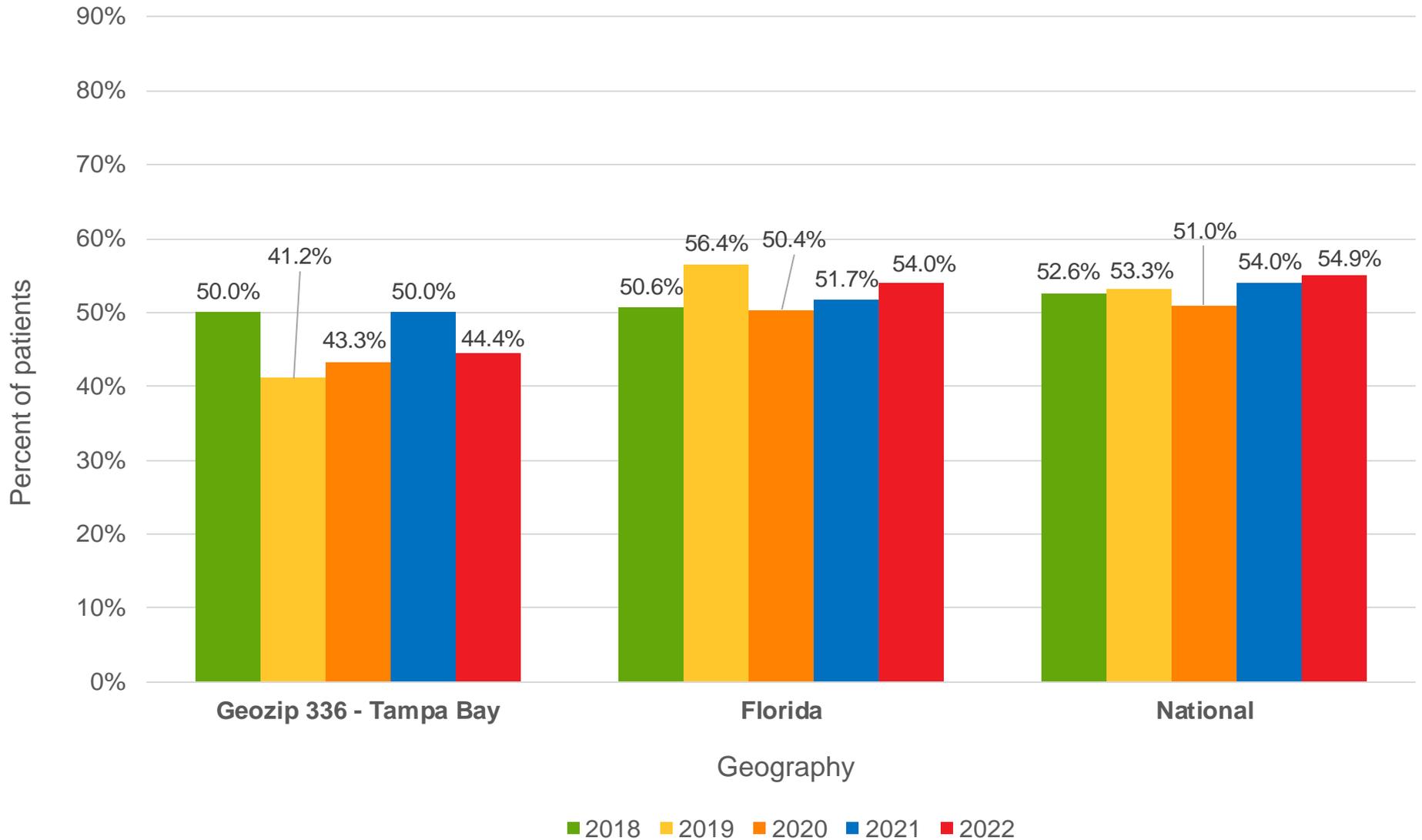
Opioid Overdoses among Opioid Use Disorder Patients, 2017-2022

Mortality Rates among Opioid Overdose Patients, 2019-2022
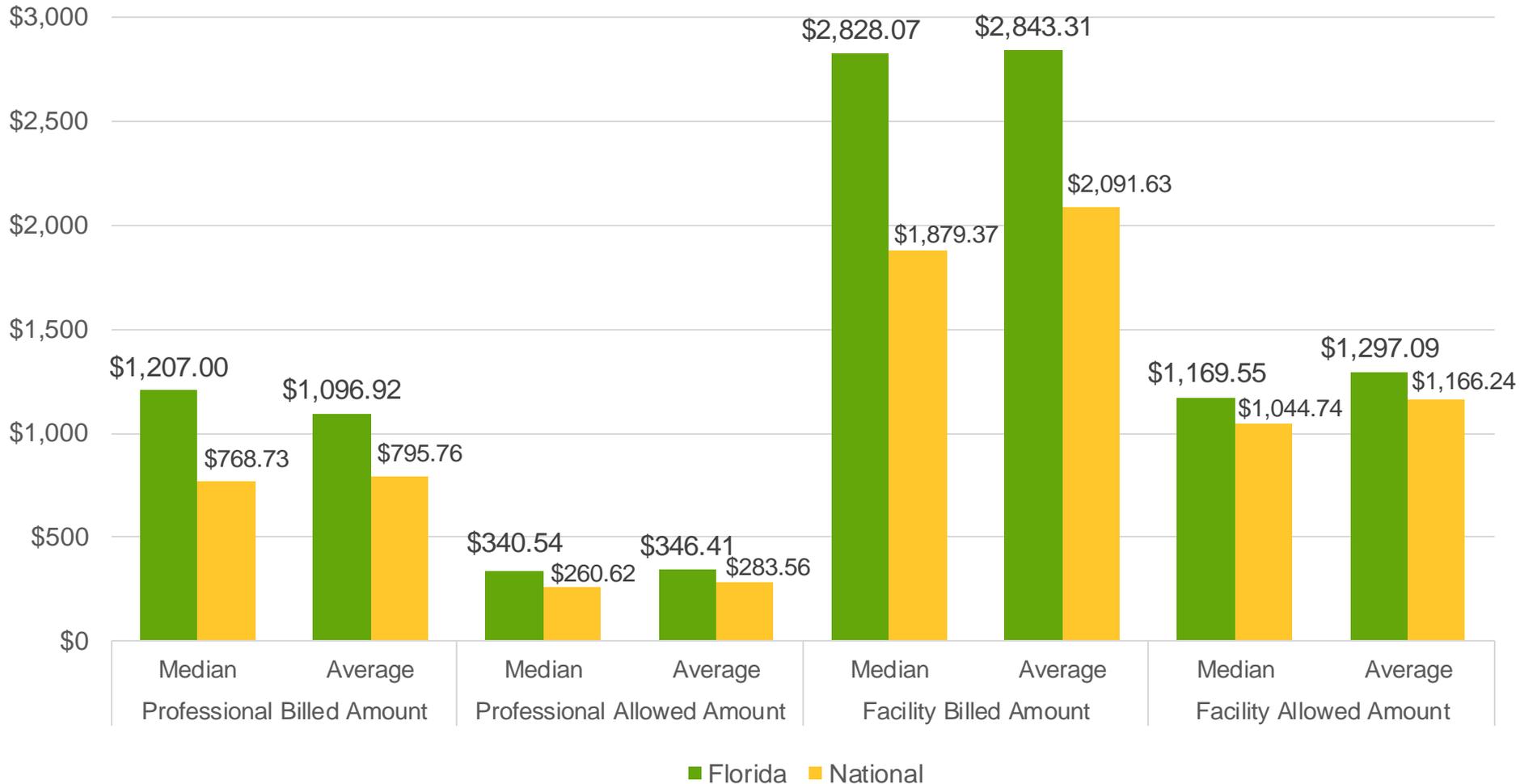
Common Procedure Codes and Costs

- Data included costs associated with common procedure codes related to treating patients with opioid use disorders and/or opioid and opioid-like overdoses

- The analyses compared:
  - Florida vs. national
  - Professional vs. facility
  - Median vs. average
  - Billed vs. allowed amounts

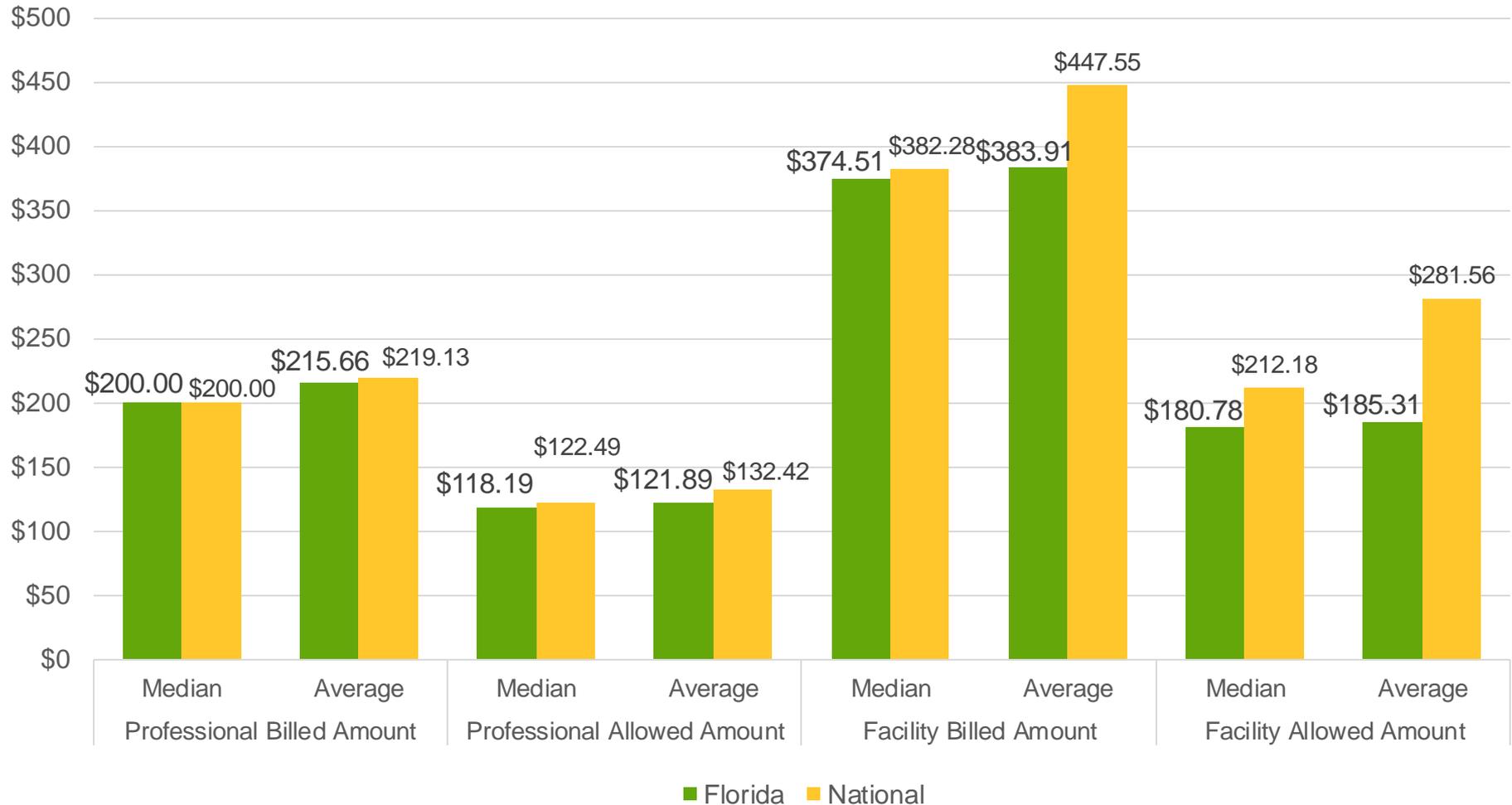# Professional and Facility Billed and Allowed Amounts, Florida and National, 2022

CPT® Code	Description
80307	Testing for presence of drug, by chemistry analyzers

Chart data — Florida (green) and National (yellow):

Professional Billed Amount
- Median: Florida $640.00, National $186.42
- Average: Florida $974.70, National $374.81

Professional Allowed Amount
- Median: Florida $57.79, National $46.07
- Average: Florida $176.28, National $61.83

Facility Billed Amount
- Median: Florida $763.96, National $300.59
- Average: Florida $860.46, National $420.59

Facility Allowed Amount
- Median: Florida $285.89, National $132.84
- Average: Florida $335.02, National $178.05

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Professional and Facility Billed and Allowed Amounts, Florida and National, 2022
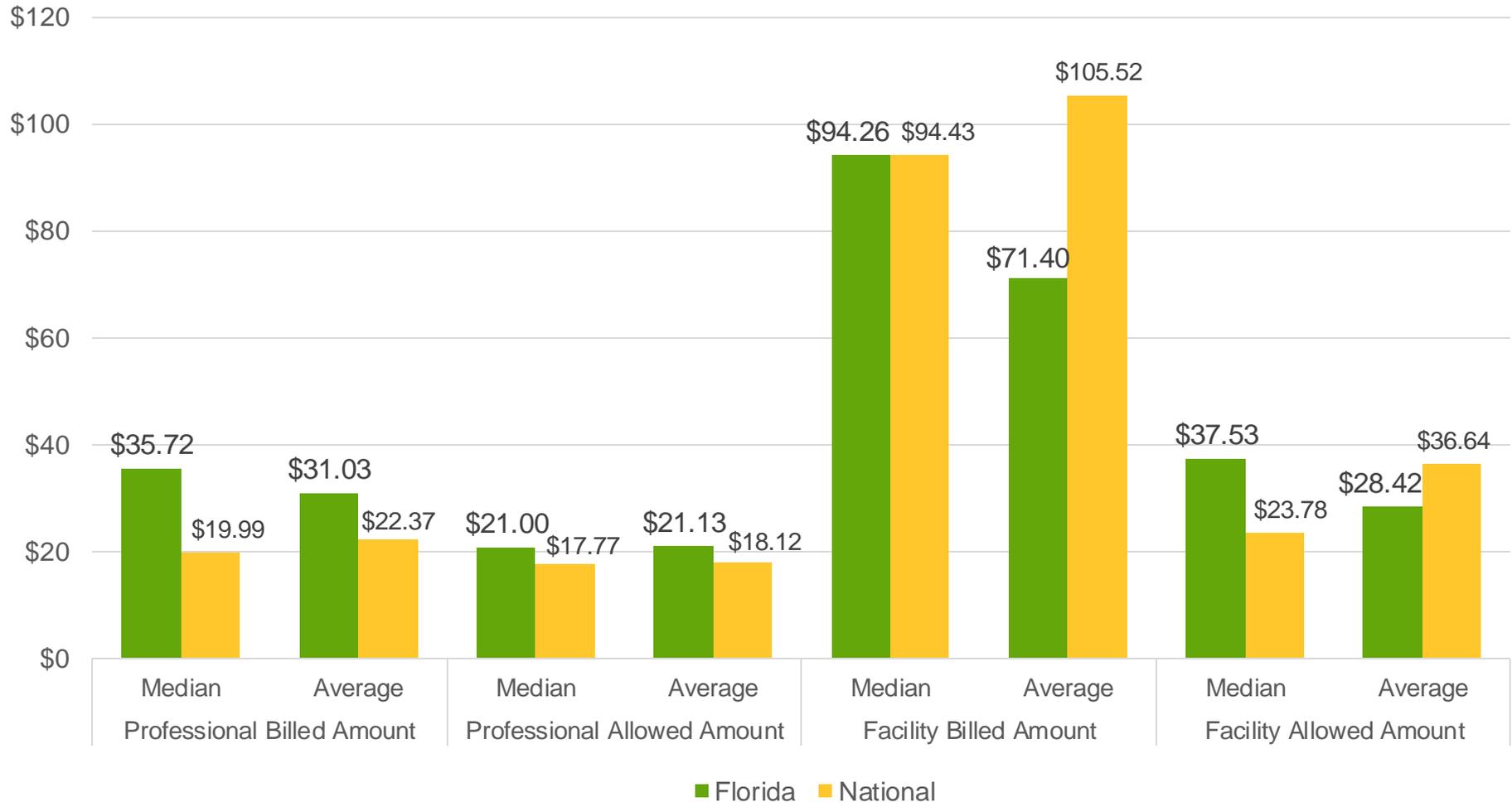
CPT Code	Description
99284	Emergency department visit with moderate level of medical decision making

# Professional and Facility Billed and Allowed Amounts, Florida and National, 2022

CPT Code	Description
90791	Psychiatric diagnostic evaluation

Professional and Facility Billed and Allowed Amounts, Florida and National, 2022

HCPCS Code	Description
H0020	Methadone administration and/or service

Professional and Facility Billed and Allowed Amounts, Florida and National, 2022
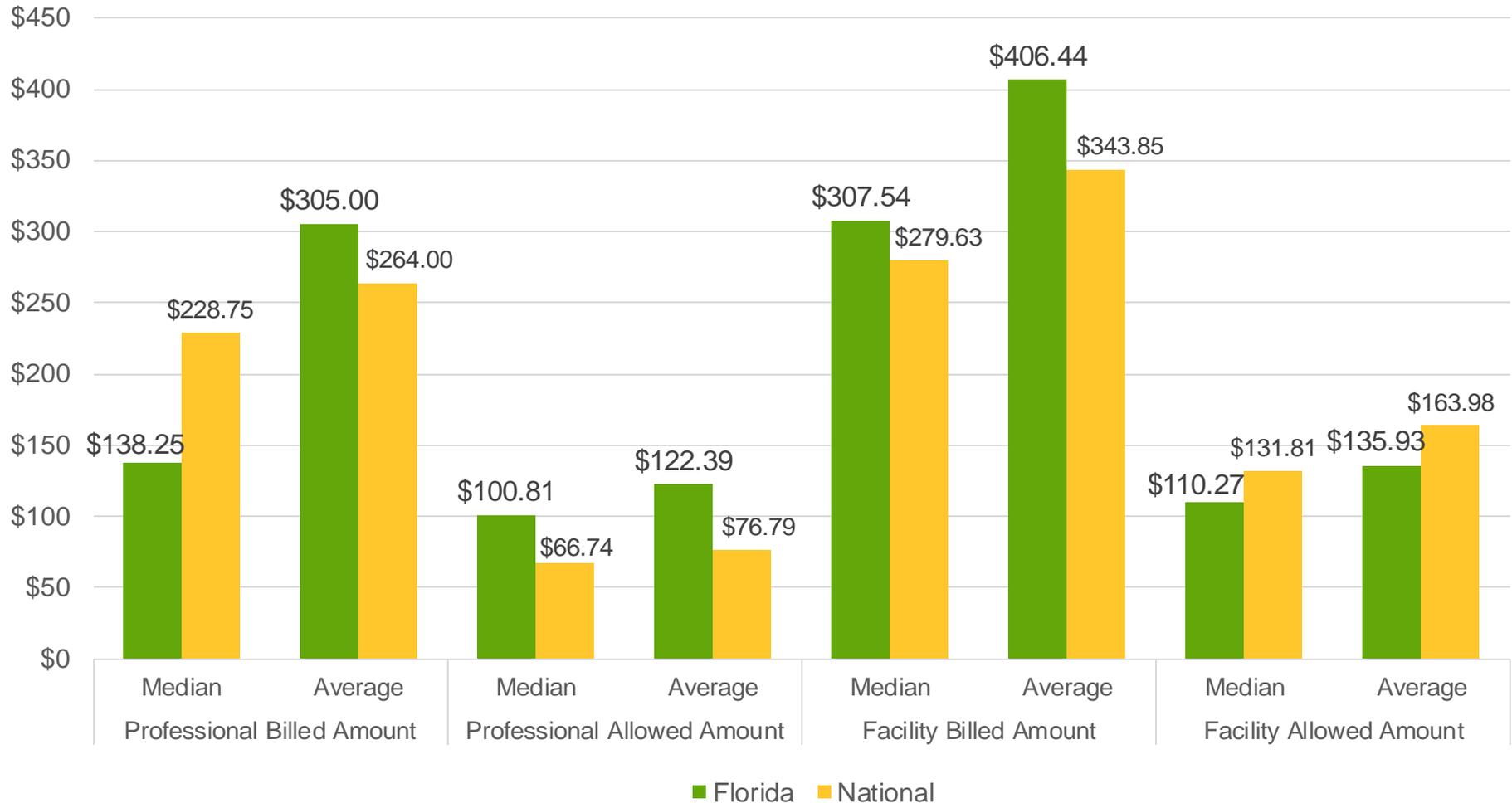
HCPCS Code	Description
G0480	Definitive drug testing, 1-7 classes

Donna Smith
Chief Client Officer
dsmith@fairhealth.org