



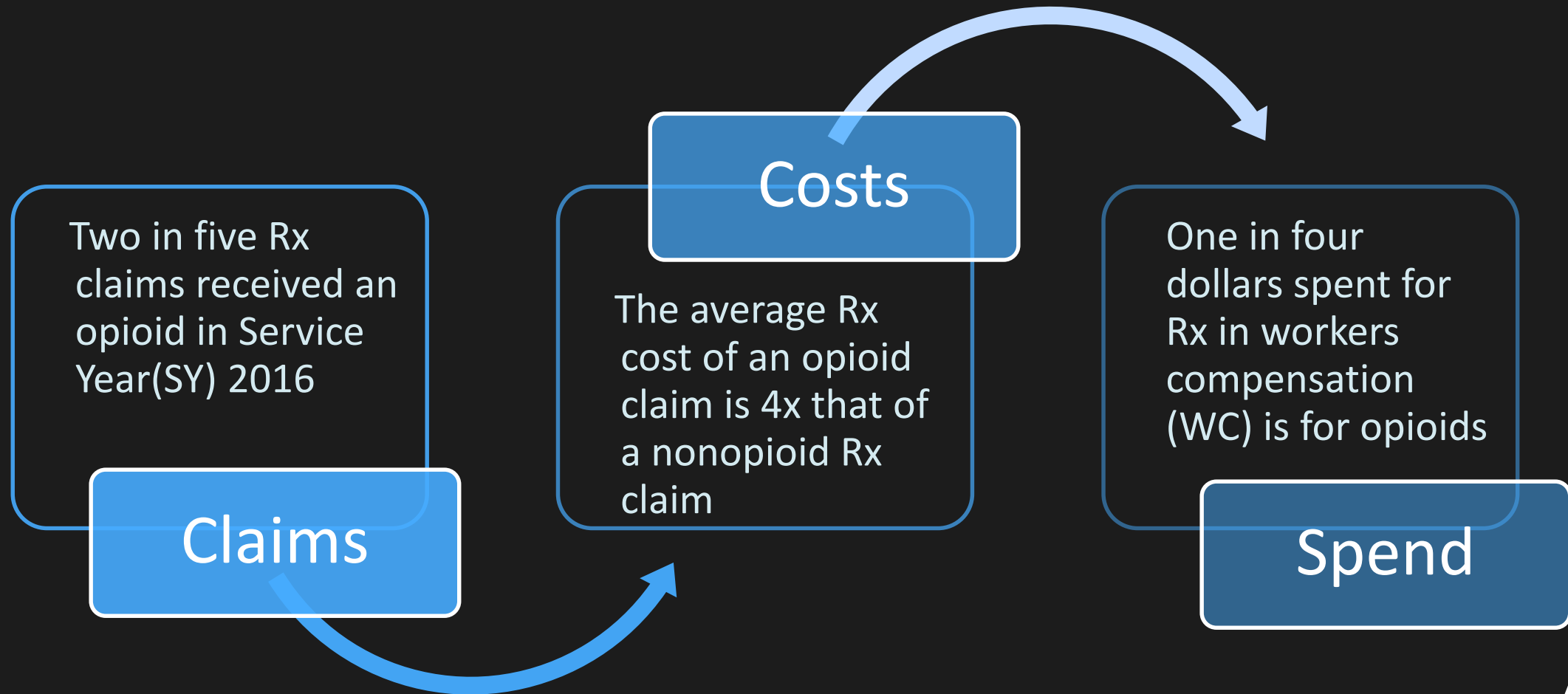
Killer Pain Relief

Opioids in Workers Compensation

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AIS
2018
30th Anniversary

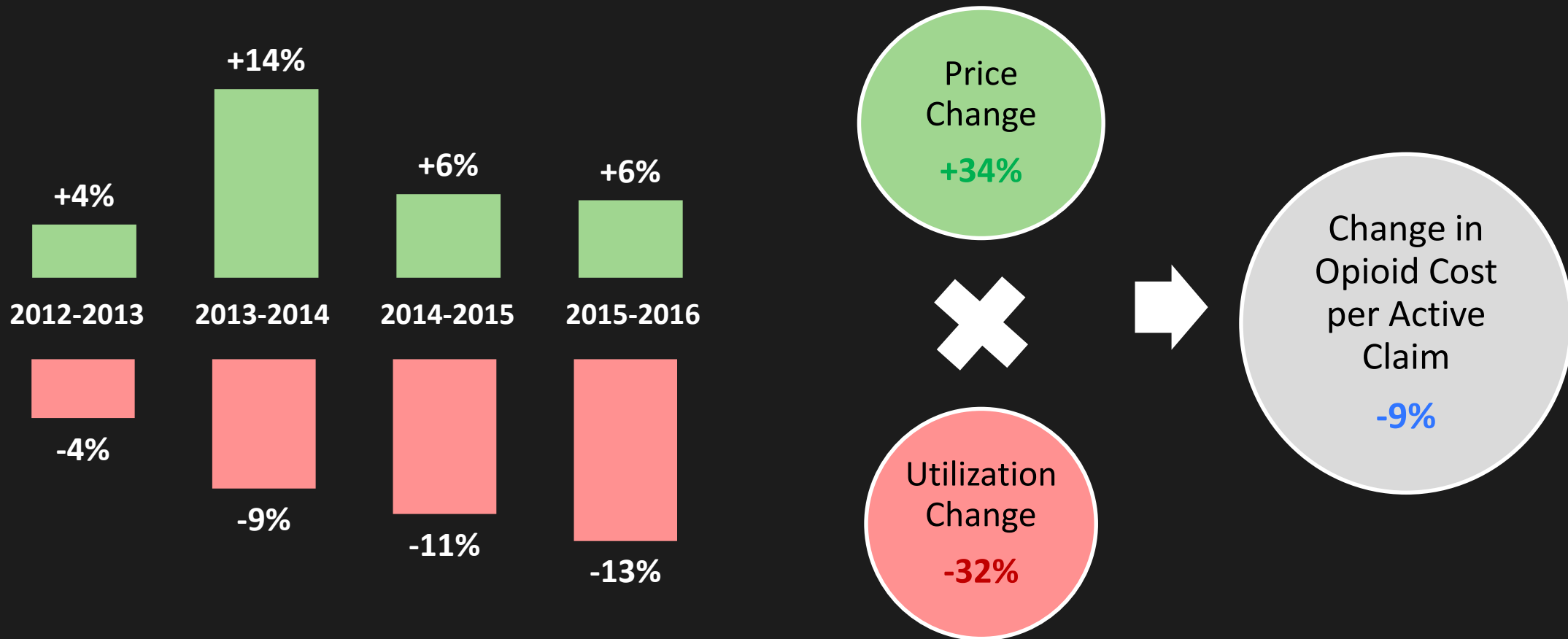
Opioids Are a Significant Share of Prescription Drug (Rx) Costs



Source: NCCI Medical Data Call, Service Year 2016. States included are: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, and WI.

Opioid Utilization Is on the Decline

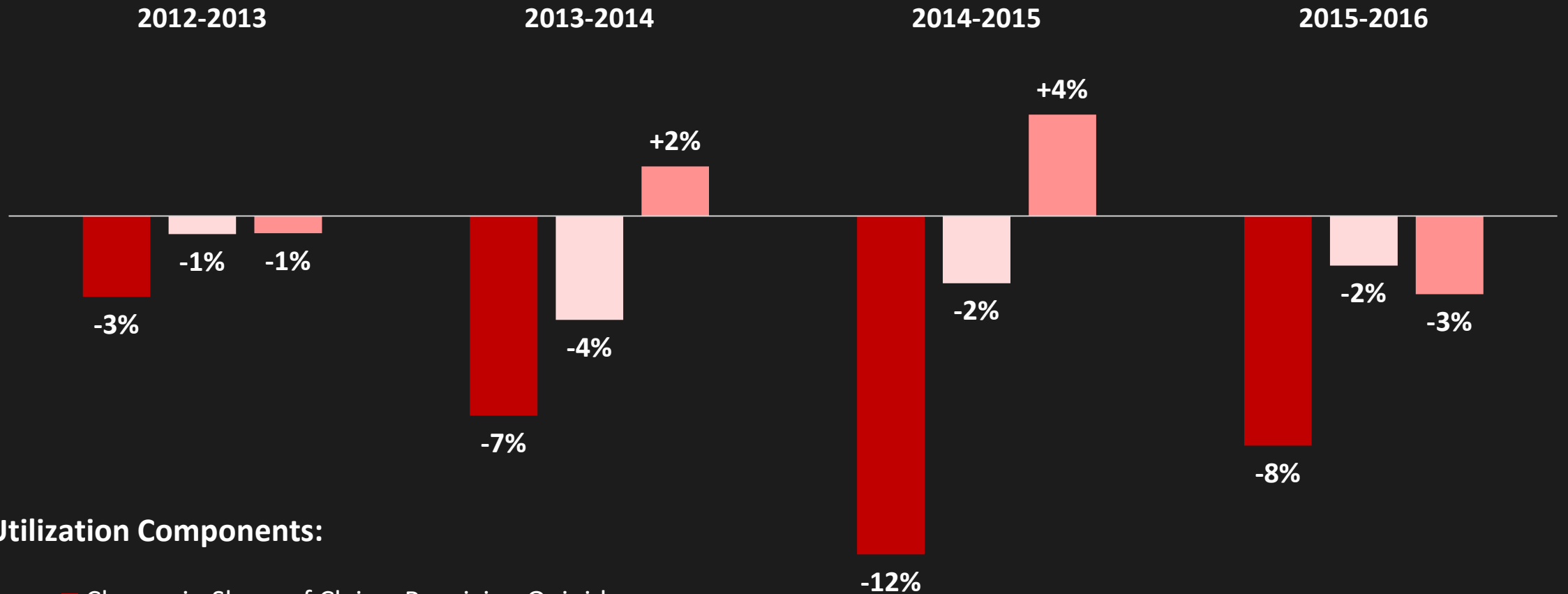
Opioid Price and Utilization Changes



Source: NCCI Medical Data Call, Service Years 2012 to 2016. States included are: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, and WI. Price changes are based on a Fisher index.

Drivers of Opioid Utilization Decrease

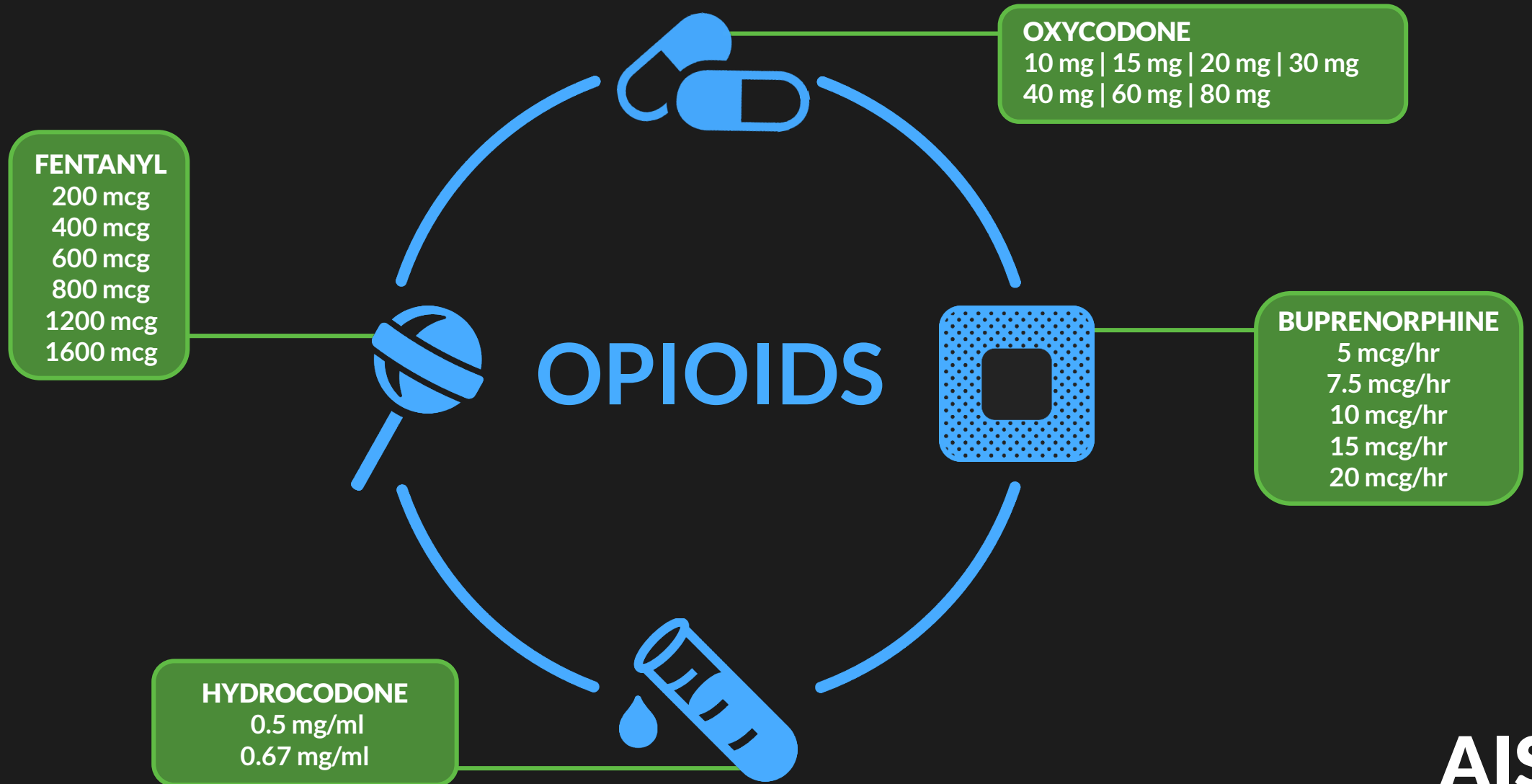
Utilization Component Changes



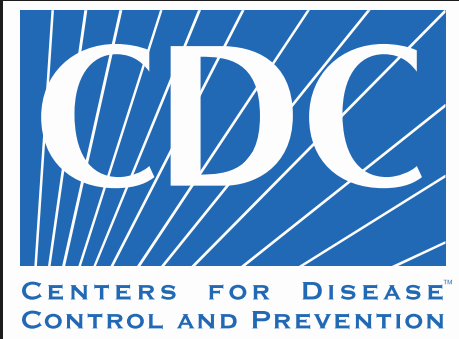
Utilization Components:

- Change in Share of Claims Receiving Opioids
- Change in Number of Opioid Scripts per Claim With at Least One Opioid
- Change in Mix of Opioids

Morphine Milligram Equivalents



Oxycodone Pill Equivalents



Morphine Milligram Equivalents (MME)

Vicodin® (10mg)	Oxycodone (20mg)	Butrans® (20mcg/hr)
10 MMEs	30 MMEs	36 MMEs/Day



Oxycodone Pill Equivalents (OPE)

Vicodin® (10mg)	Oxycodone (20mg)	Butrans® (20mcg/hr)
0.3 OPEs	1 OPE	1.2 OPEs/Day

Top Workers Compensation Opioid Drugs

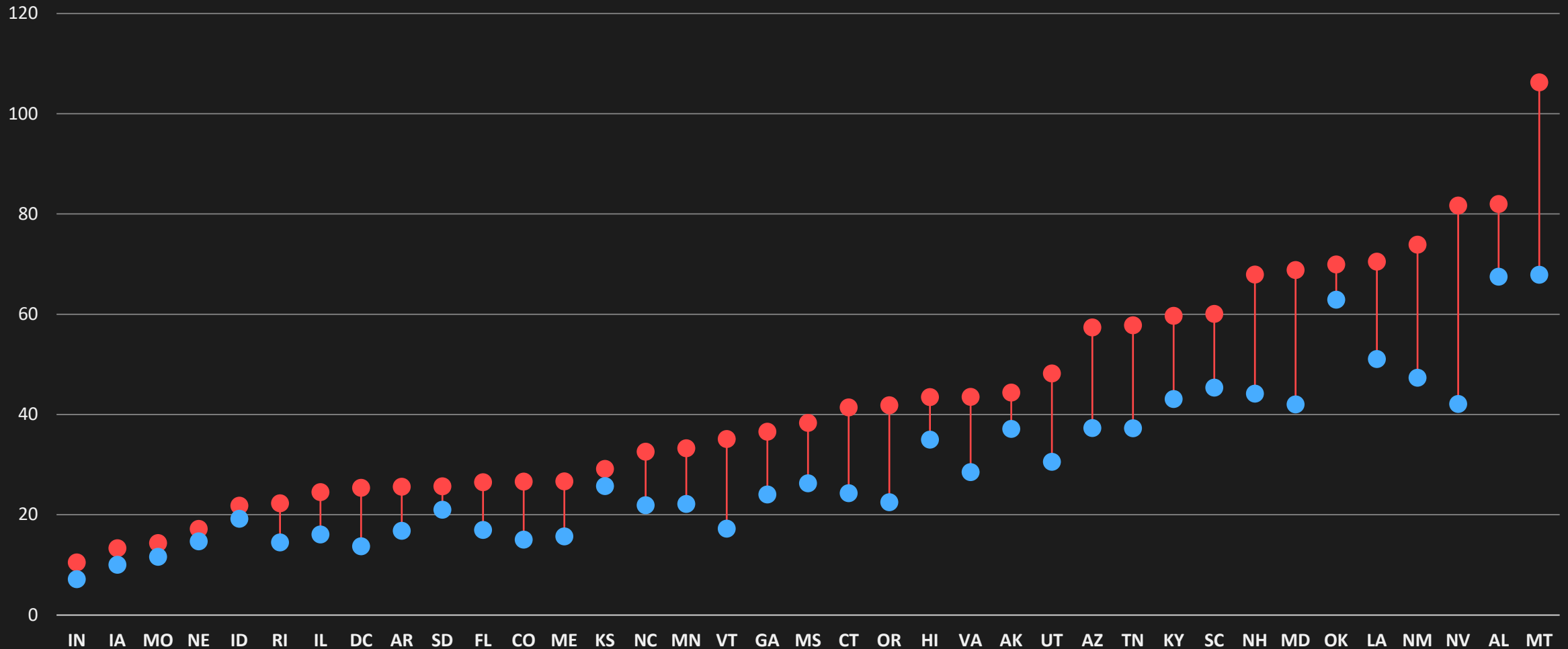
SY 2016

OPE Rank	Rx Count Rank	Drug Name	Share of OPE
1	4	Oxycodone HCl	17%
2	1	Hydrocodone Bitartrate–Acetaminophen	15%
3	3	Oxycodone HCl–Acetaminophen	12%
4	5	Oxycontin®	11%
5	6	Morphine Sulfate	8%
6	2	Tramadol HCl	6%
7	9	Fentanyl Transdermal System	5%
8	10	Methadone HCl	3%
9	12	Opana® ER	3%
10	20	Suboxone®	3%

Source: NCCI Medical Data Call, Service Year 2016. States included are: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, and WI.

Opioid Prescribing Decreases Vary by State

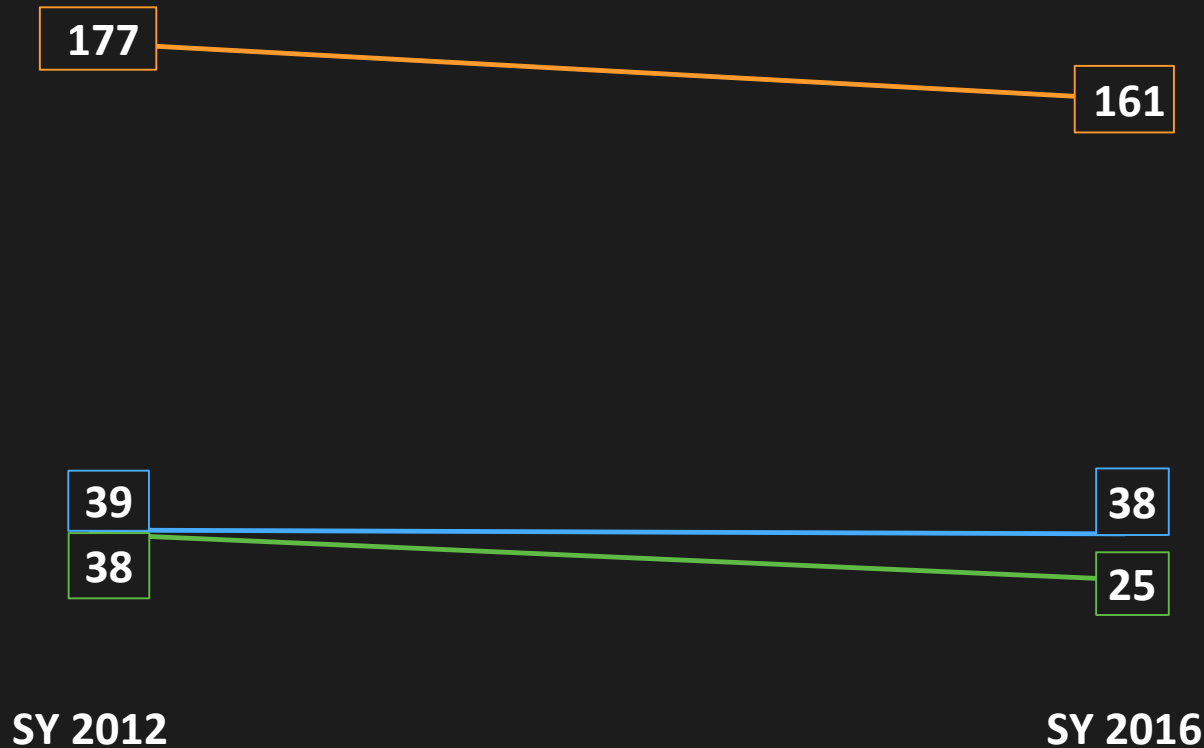
Change in OPE per Active Claim Between SY 2012 and SY 2016



Source: NCCI Medical Data Call, Service Years 2012 and 2016. States included are: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, and VT.

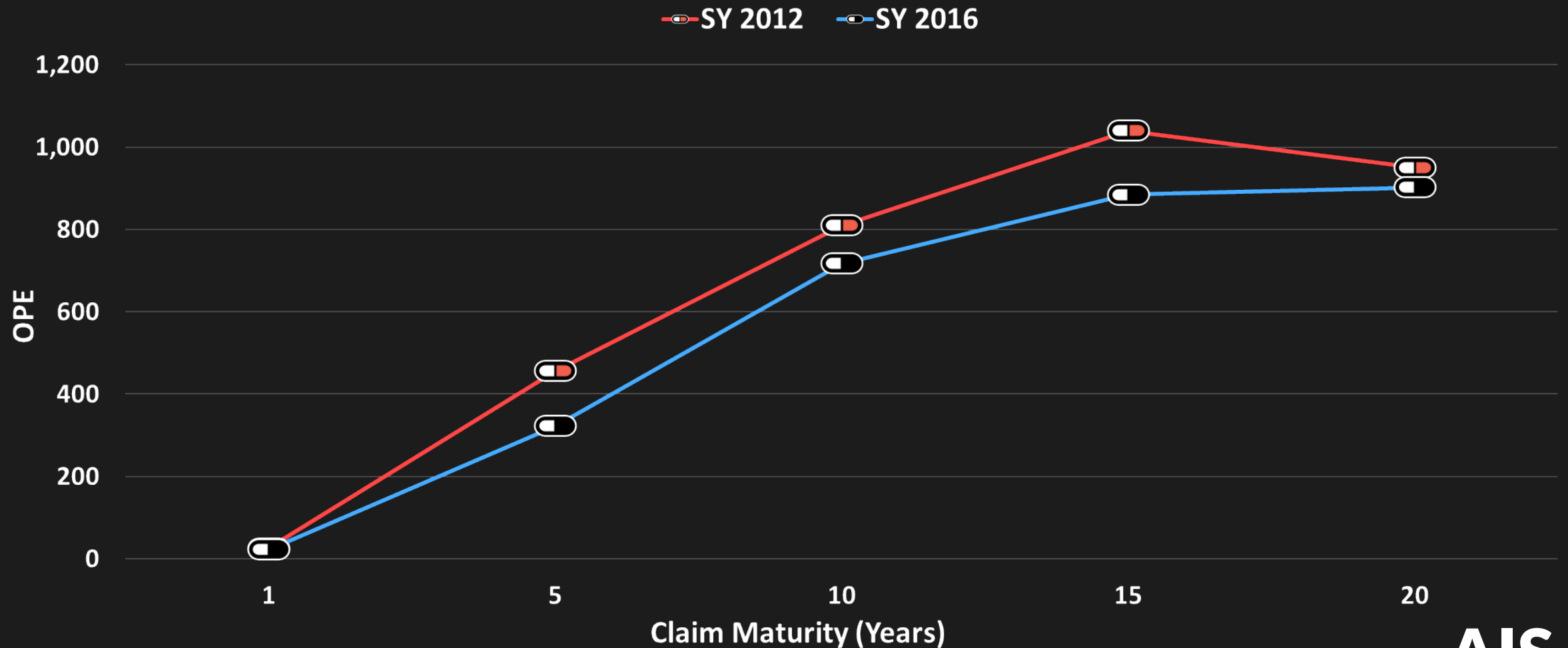
OPE per Claim Is Decreasing; OPE per Script Has Remained Stable

—OPE per Active Claim —OPE per Opioid Claim —OPE per Script



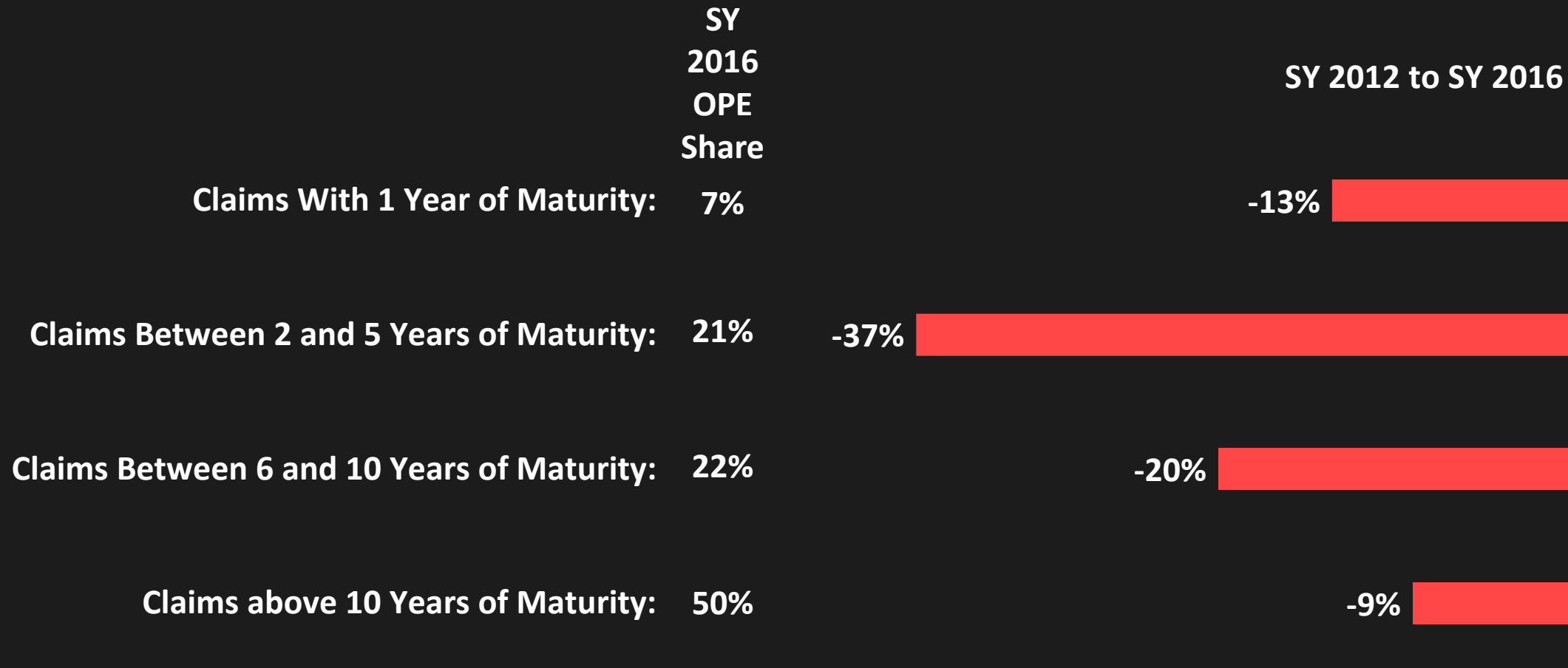
Source: NCCI Medical Data Call, Service Years 2012 and 2016. States included are: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, and WI.

More OPE Is Prescribed for More Mature Opioid Claims



Source: NCCI Medical Data Call, Service Years 2012 and 2016. States included are: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, and WI.

Decrease in OPE is Driven by Less Mature Claims

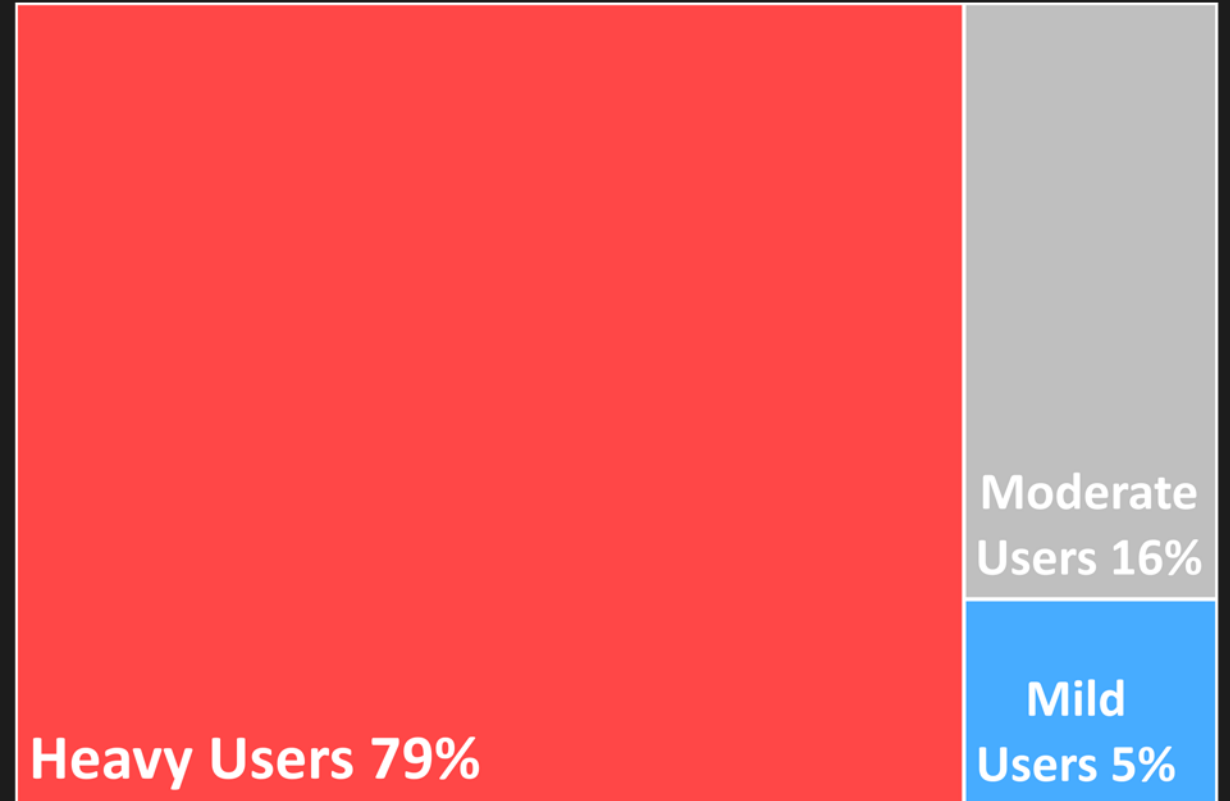


Source: NCCI Medical Data Call, Service Years 2012 and 2016. States included are: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, and WI.

Heavy Users Are Prescribed About 80% of All OPE in SY 2016

Opioid claimants are classified based on yearly OPE consumption

Risk Profile	Share of Claims
Heavy Users	Top 10%
Moderate Users	Next 20%
Mild Users	Bottom 70%



Source: NCCI Medical Data Call, Service Year 2016. States included are: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, and WI.

CDC Guidelines for Prescribers

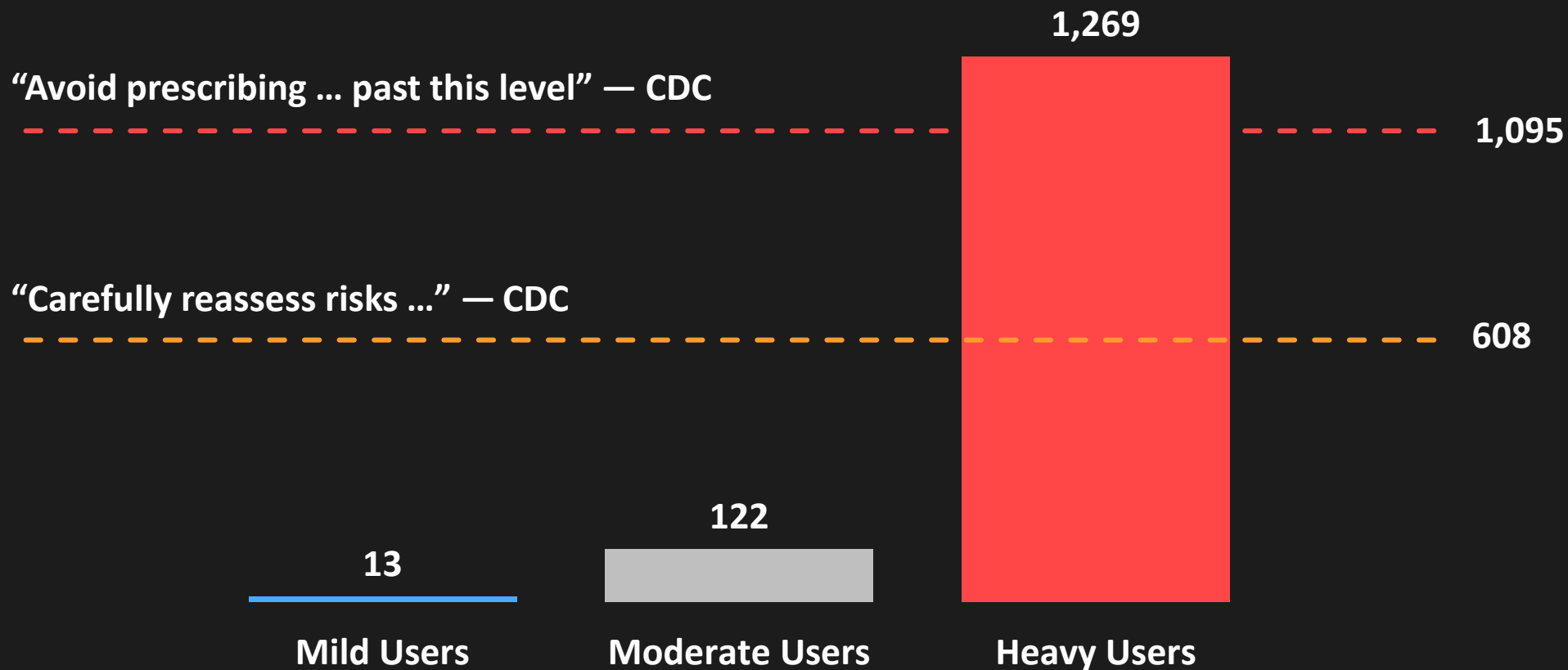
The CDC states “Clinicians should use caution when prescribing opioids at any dosage.”

CDC Daily Thresholds	OPE Yearly Threshold	Recommendation
30 MME (1 OPE)	365 OPE	CDC’s calculated average daily dosage for an opioid user.
≥ 50 MME (1.67 OPE)	≥ 608 OPE	“Clinicians should carefully reassess the benefits and risks when considering increasing dosage to this level.”
≥ 90 MME (3 OPE)	≥ 1,095 OPE	“Clinicians should avoid increasing dosage or carefully justify a decision to prescribe past this level.”

Source: <https://www.cdc.gov/drugoverdose/prescribing/guideline.html>

Heavy Users Break the Annual CDC Threshold

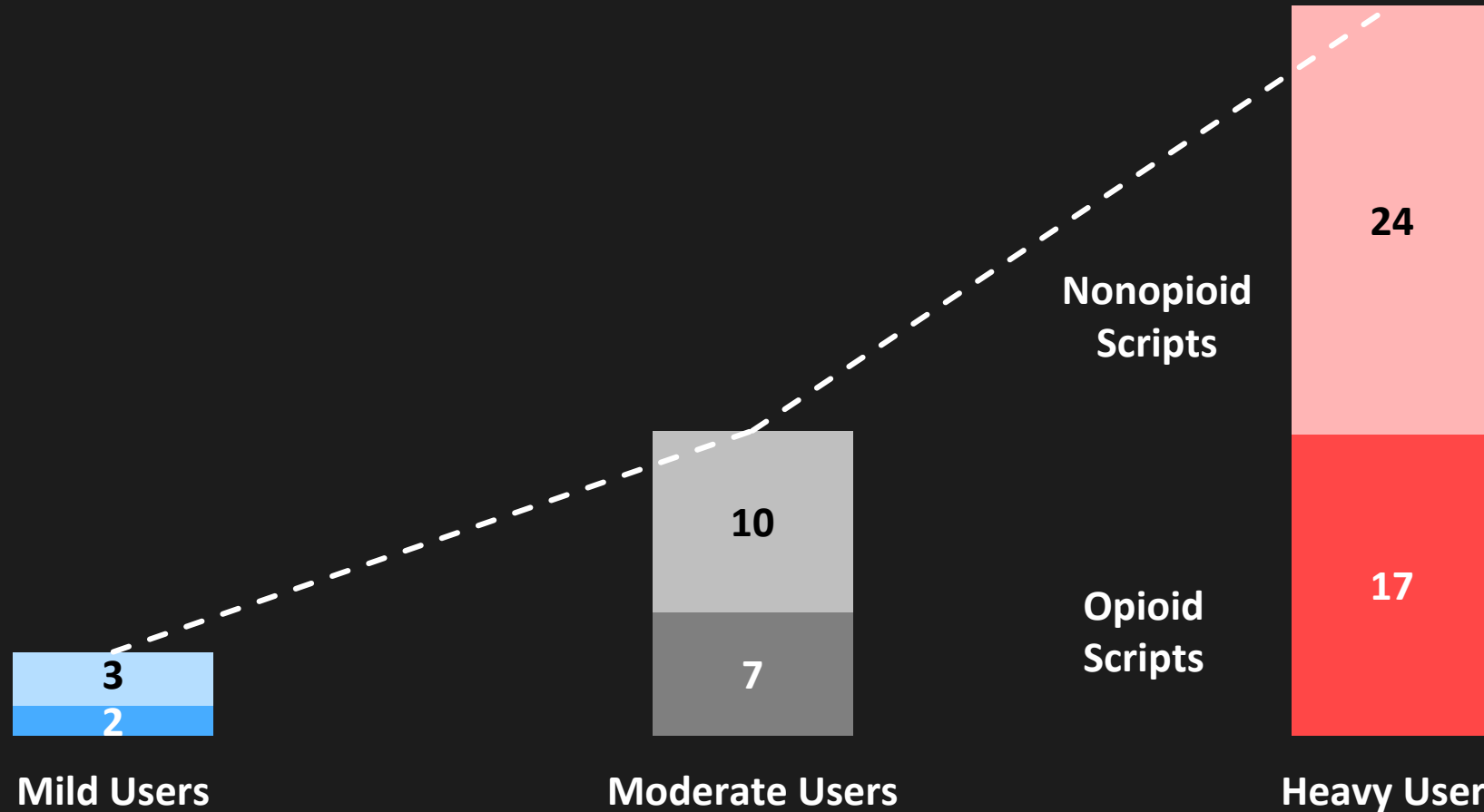
Average OPE SY 2016



Source: NCCI Medical Data Call, Service Year 2016. States included are: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, and WI.

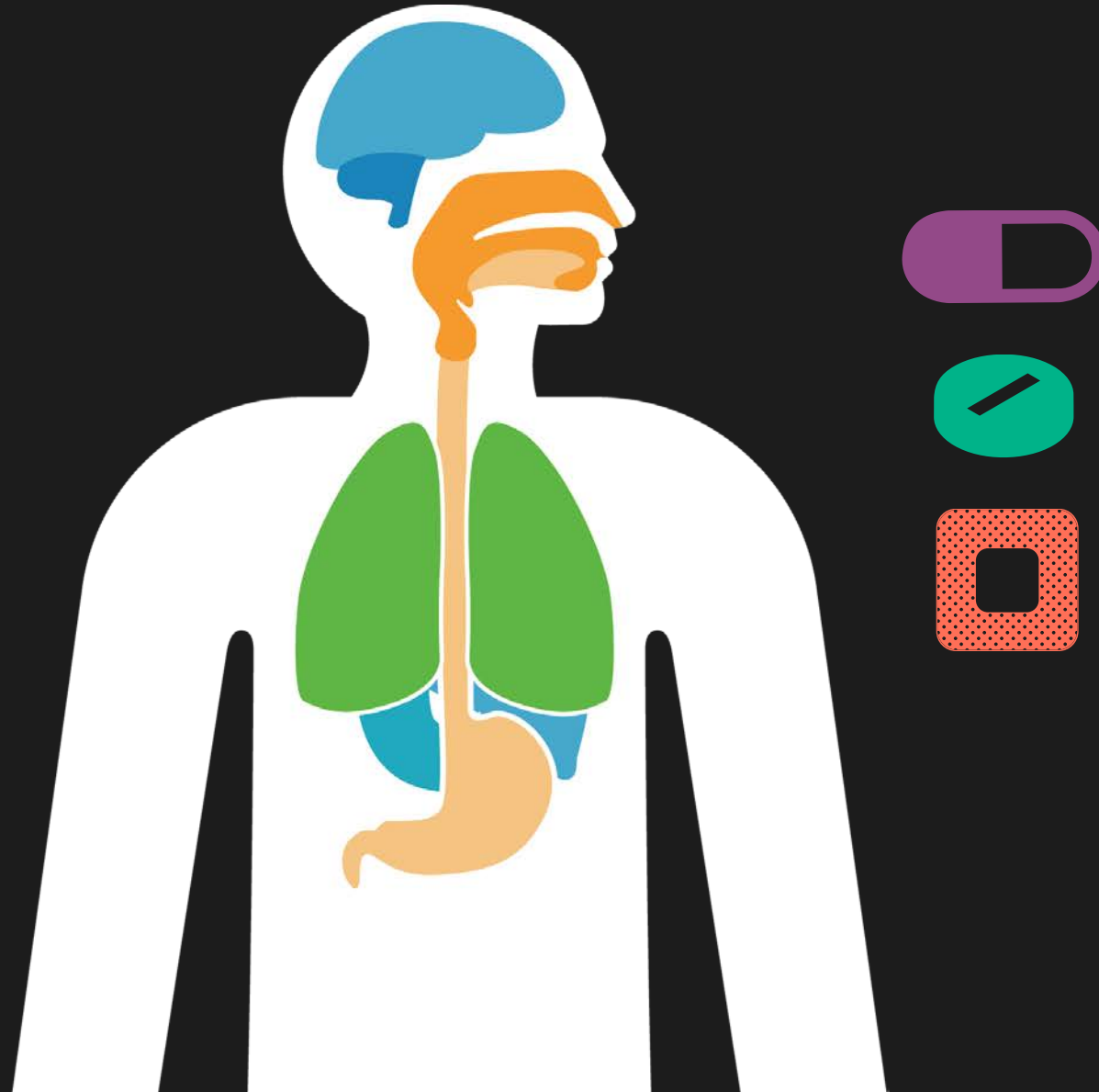
Heavy Users Are Prescribed Eight Times the Number of Prescriptions of Mild Users

Average Number of Prescriptions SY 2016



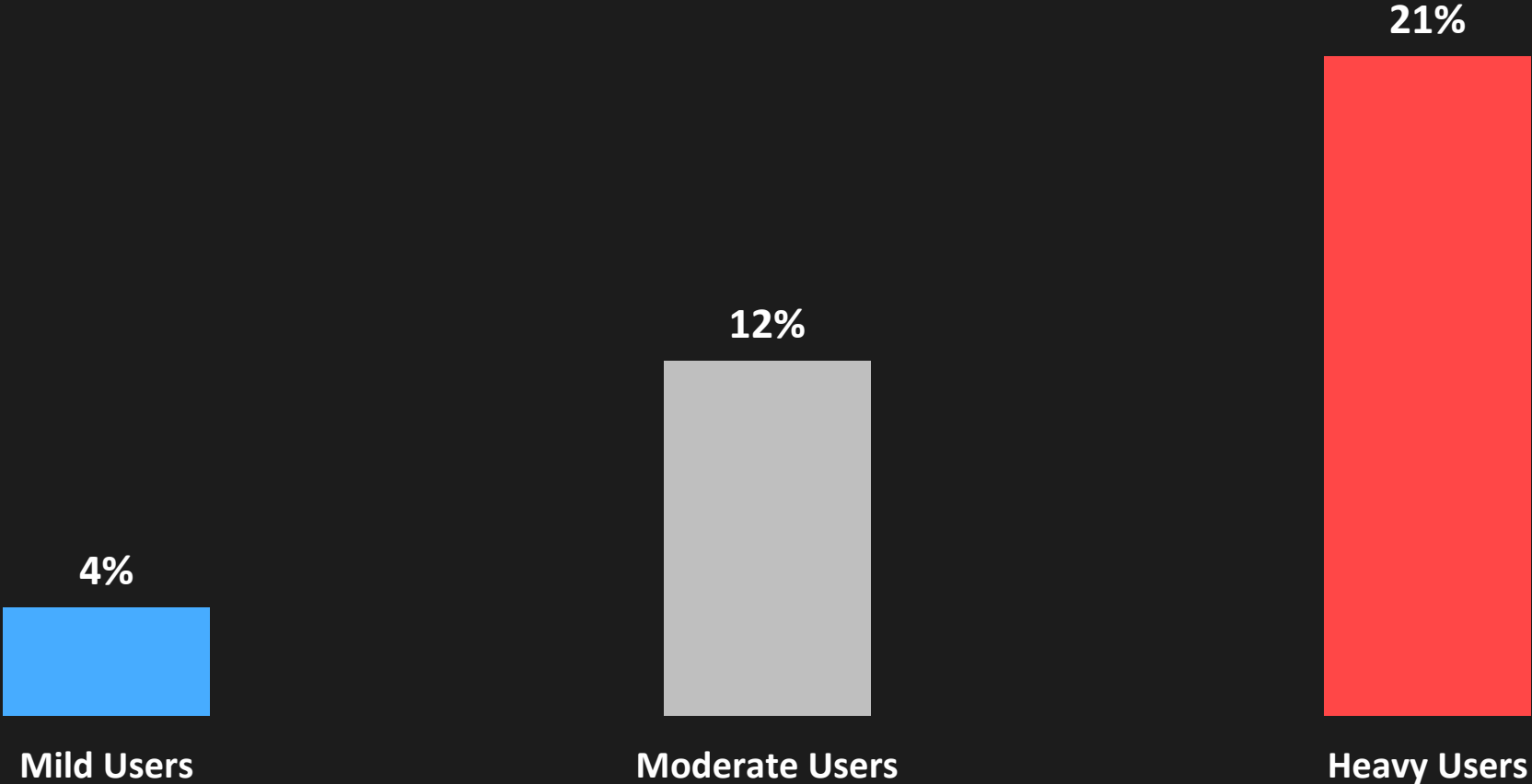
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Polypharmacy



One in Five Heavy Users Are Concurrently Prescribed Benzos

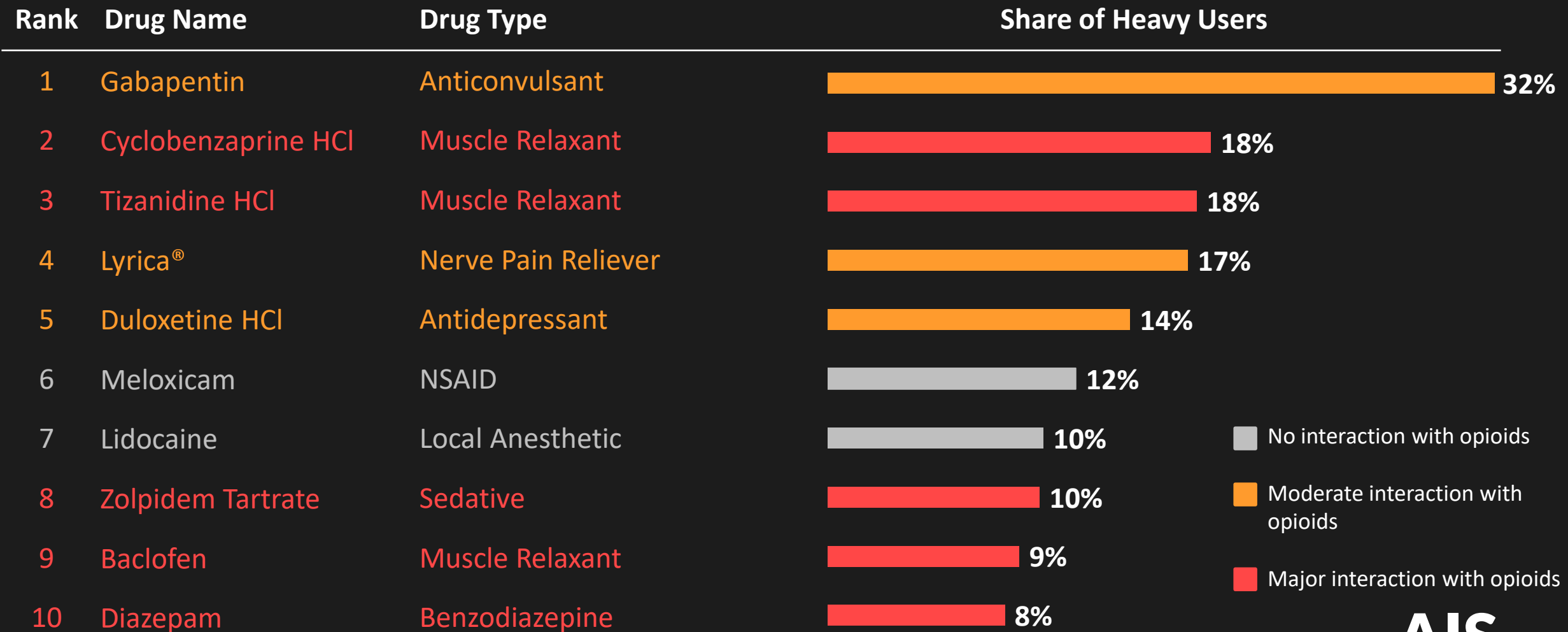
Share of Opioid Claims With Benzos – SY 2016



Source: NCCI Medical Data Call, Service Year 2016. States included are: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, and WI.

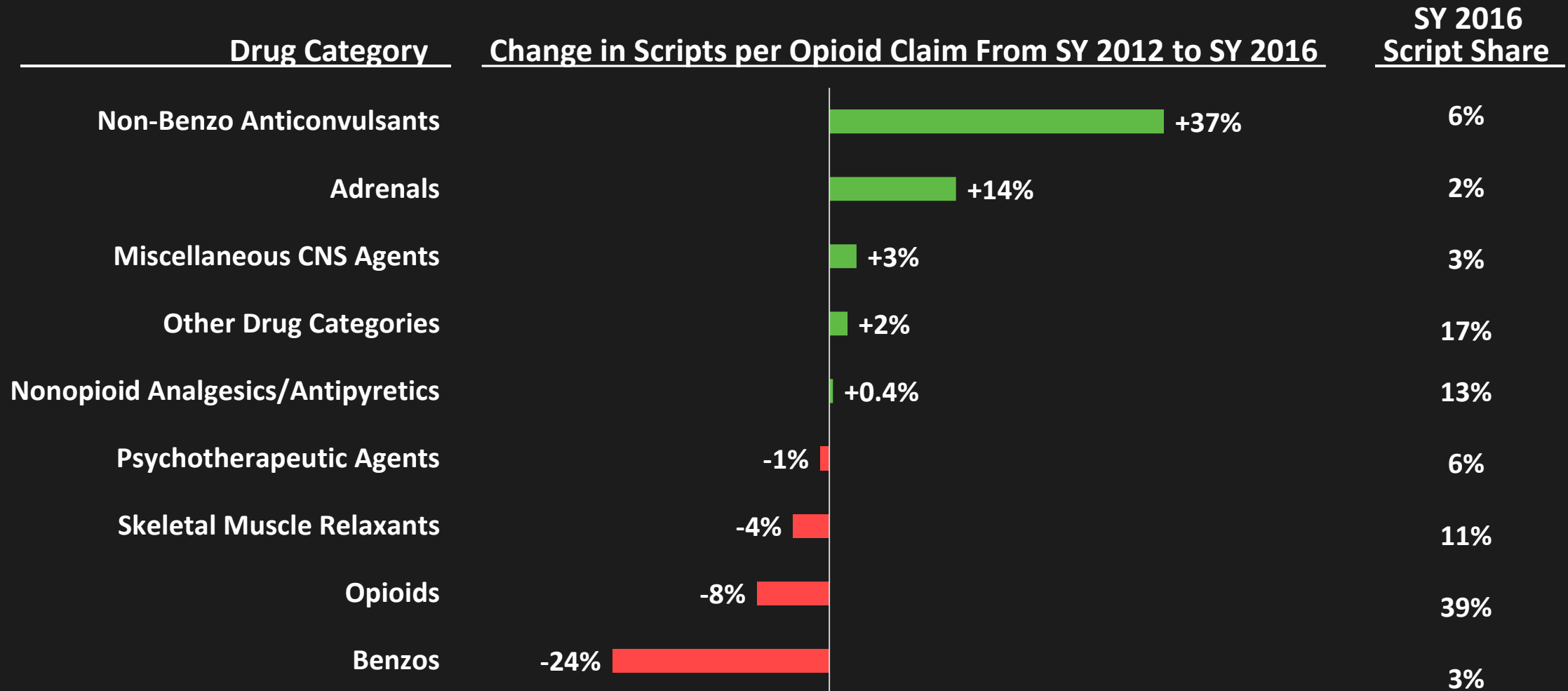
Most Prevalent Nonopioid Drugs

Heavy Users – SY 2016



Source: NCCI Medical Data Call, Service Year 2016. States included are: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, and WI.

Changes in Drug Prescriptions for Opioid Claims



Source: NCCI Medical Data Call, Service Years 2012 and 2016. States included are: AK, AL, AR, AZ, CO, CT, DC, FL, GA, HI, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NM, NV, OK, OR, RI, SC, SD, TN, UT, VA, VT, and WI.

Recent Legislative Activity

Since the beginning of 2017, nearly 1,700 bills have been introduced across the U.S. regarding opioids

Addiction Prevention	Addiction Treatment
Taxes on opioids	Increased addiction treatment funding
Education for doctors and students	Mandatory drug tests
Labeling requirements	Require first responders to carry Narcan
Prohibition of advertising	Coverage requirements of abuse-deterrent drugs

Both
Limits on dosages, refills, and MME
Prescription drug monitoring programs
Creation of opioid studies and task forces

As of March 1, 2018.

Alternative Treatments

Nondrug treatments



Drug treatments

