



MEMORANDUM

Date: November 20, 2017

To: The Honorable Chair and Members
Pima County Board of Supervisors

From: C.H. Huckelberry
County Administrator

A handwritten signature in black ink, appearing to be "CHH", is written over the typed name "C.H. Huckelberry".

Re: **Additional Information Regarding Opioid Use/Misuse Impacts on Pima County**

Please see the attached report regarding opioid use/misuse within Pima County in the areas of public health and other publically related costs experienced by the County, healthcare providers and the Medical Examiner.

This analysis does not include the costs related to rescue, emergency services, law enforcement and criminal justice system costs incurred because of the abuse of opioids.

Please advise if you would like to have this information presented to the Board of Supervisors at a future public meeting.

In addition, if you are interested in any additional information on this subject, particularly as it relates to potential litigation to recover all costs associated with opioid misuse and abuse, please contact me.

CHH/anc

Attachment

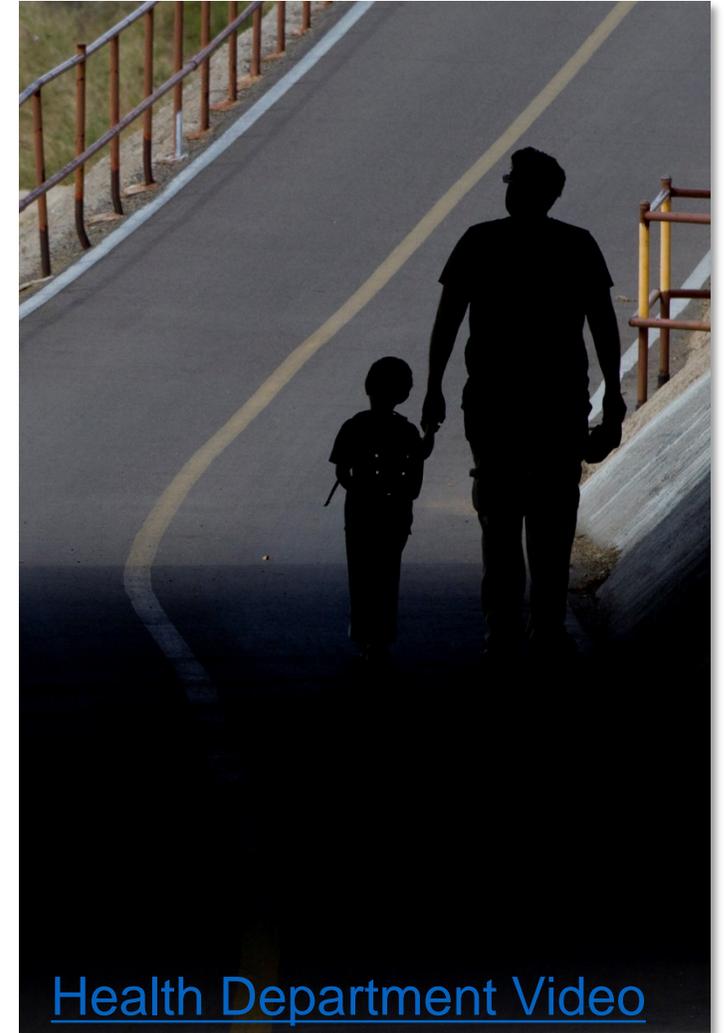
c: The Honorable Barbara LaWall, Pima County Attorney
Jan Leshner, Chief Deputy County Administrator
Dr. Francisco Garcia, Assistant County Administrator for Community and Health Services
Dr. Gregory Hess, Pima County Medical Examiner

The Burden of Opioid Use/Misuse in Pima County

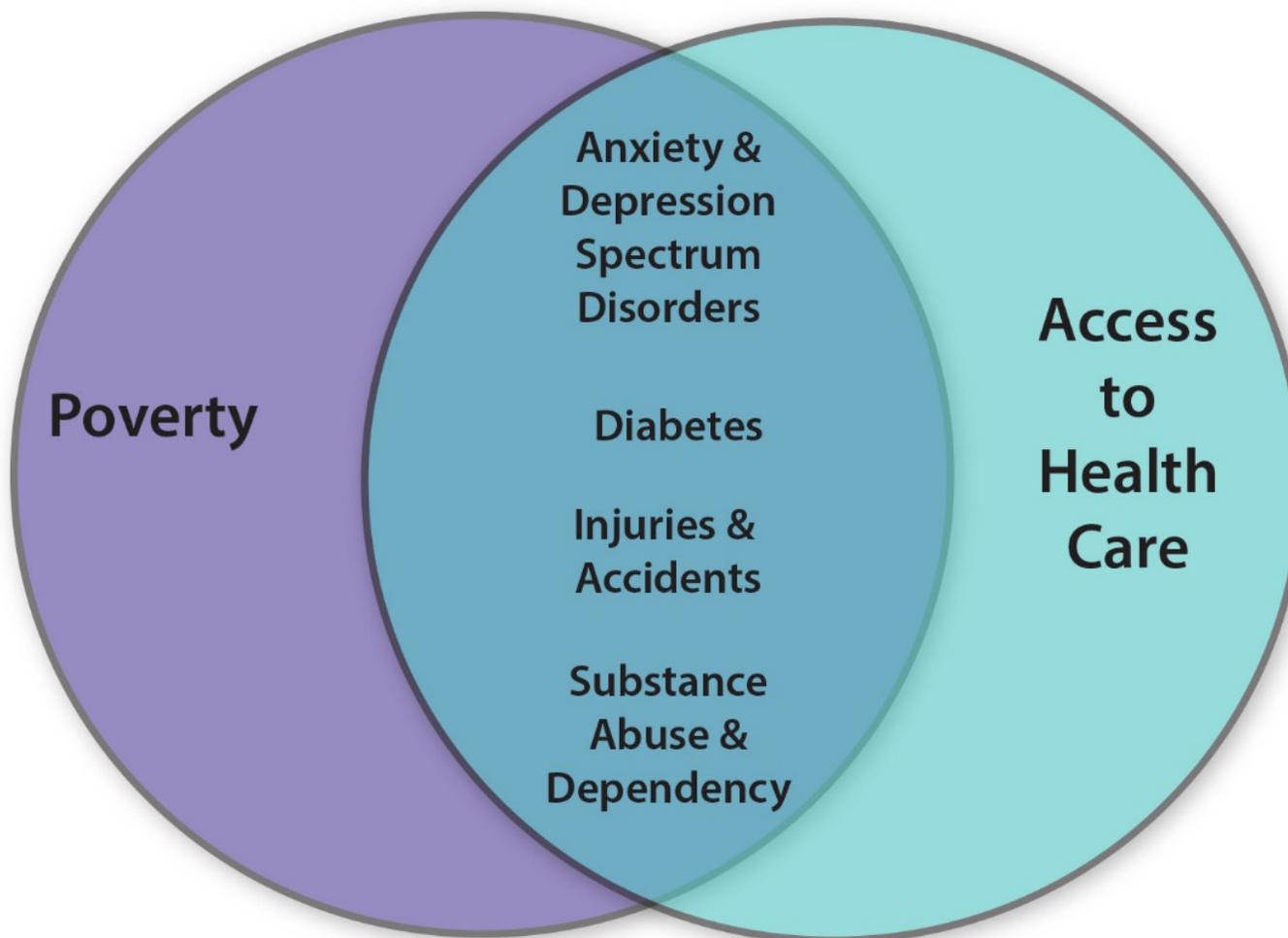
Francisco García, MD, MPH

Assistant County Administrator & Chief Medical Officer

15 November 2017



Community Health Needs Assessment 2015



Carondelet. **Be well.**



Banner University Medical Center



A healthy Pima County. Everyone. Everywhere. Every day.

Opioid-Related Hospital Encounters, 2008-2016

Since 2008, there has been a nearly two-fold increase in number of ED visits and in-patient hospital stays related to opioid misuse



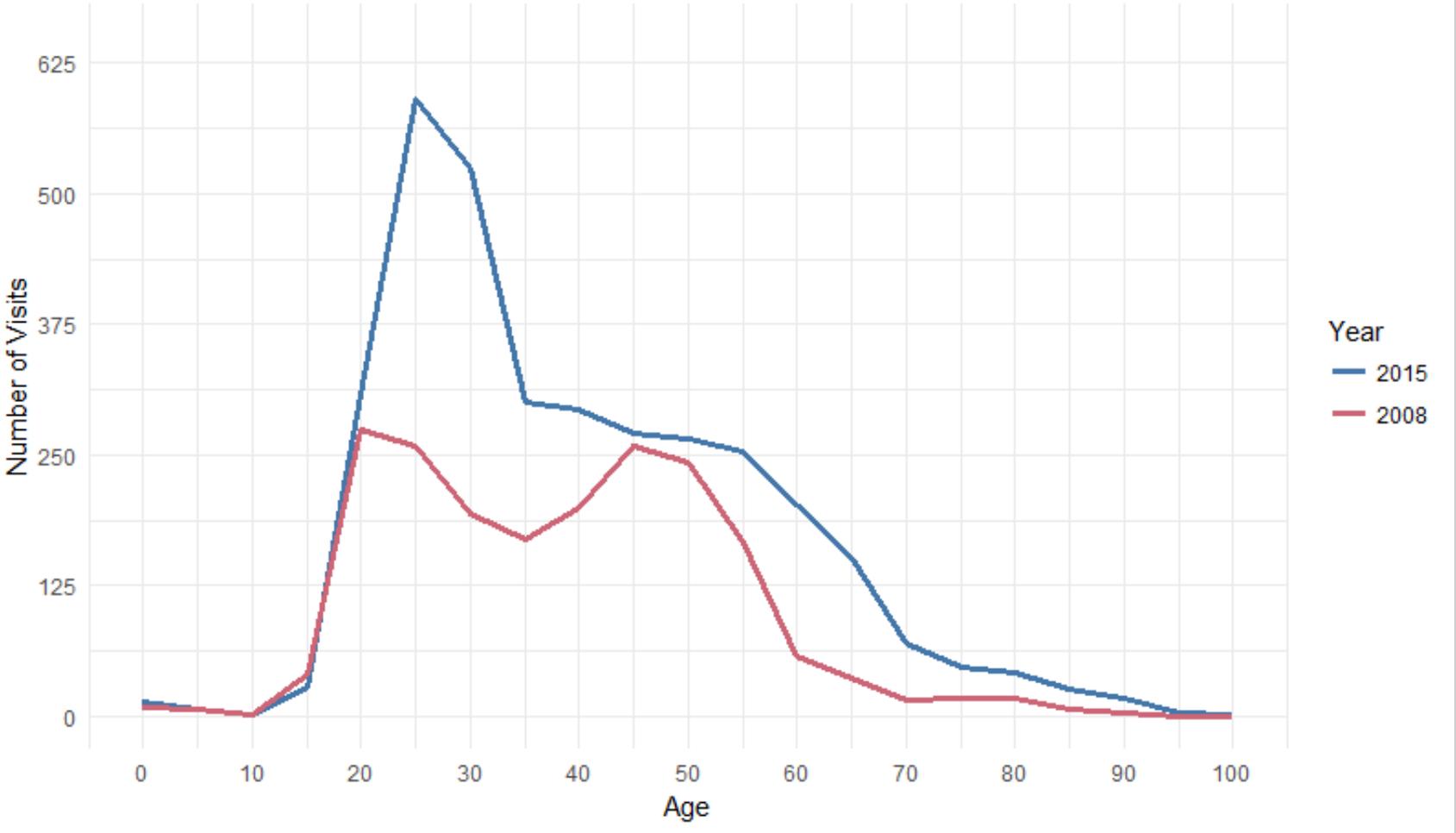
Source: Pima County, Hospital Discharge Database

Substance Use Related *Emergency Department Visits*

Significant increase in the number of substance misuse related ED visits across age-groups from 20 to 70 years

AZ Hospital Discharge Database

ED Visits Related to Any Opioid Use by Age, 2008 & 2015

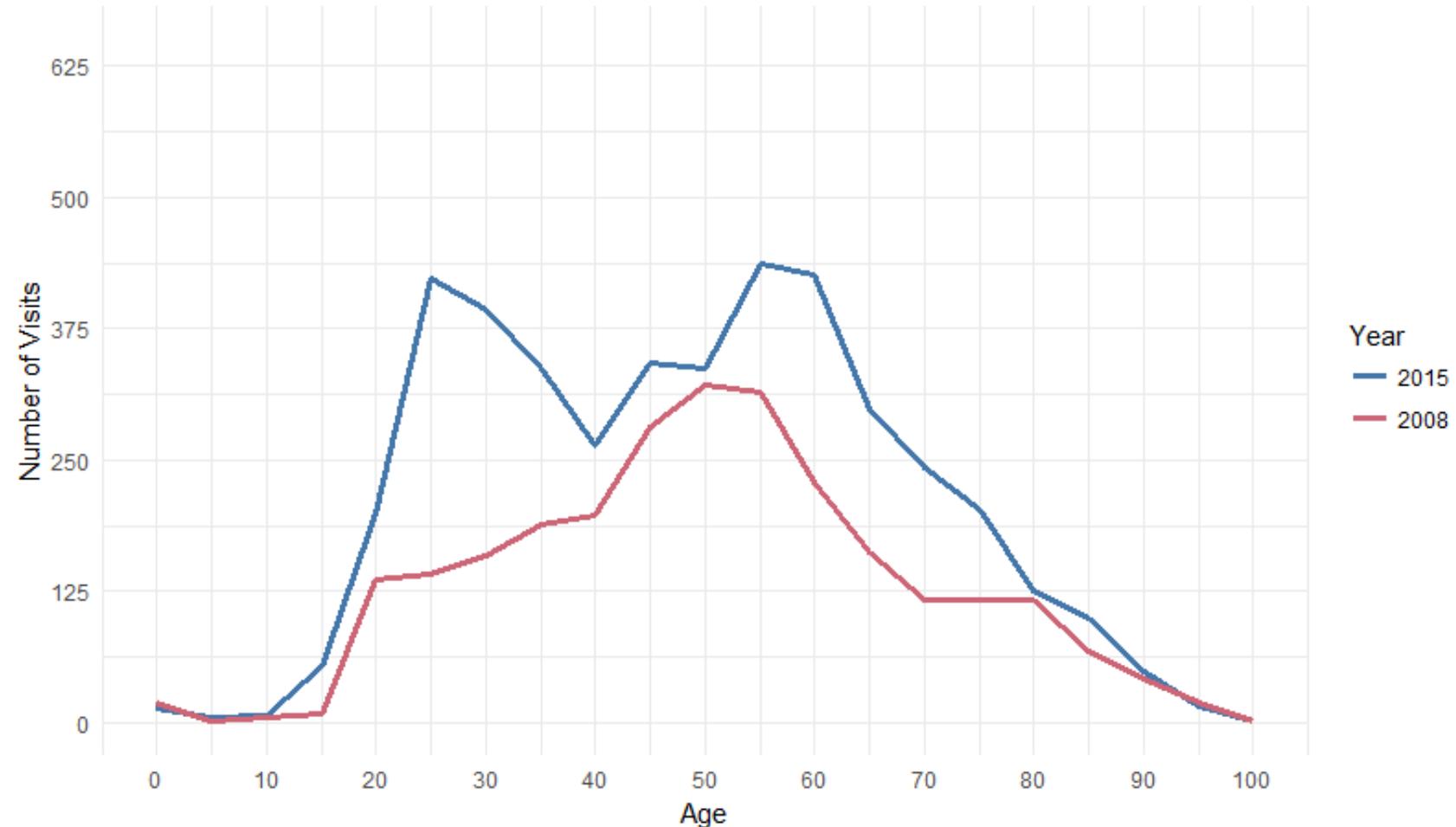


Substance Use Related *In-patient Hospitalizations*

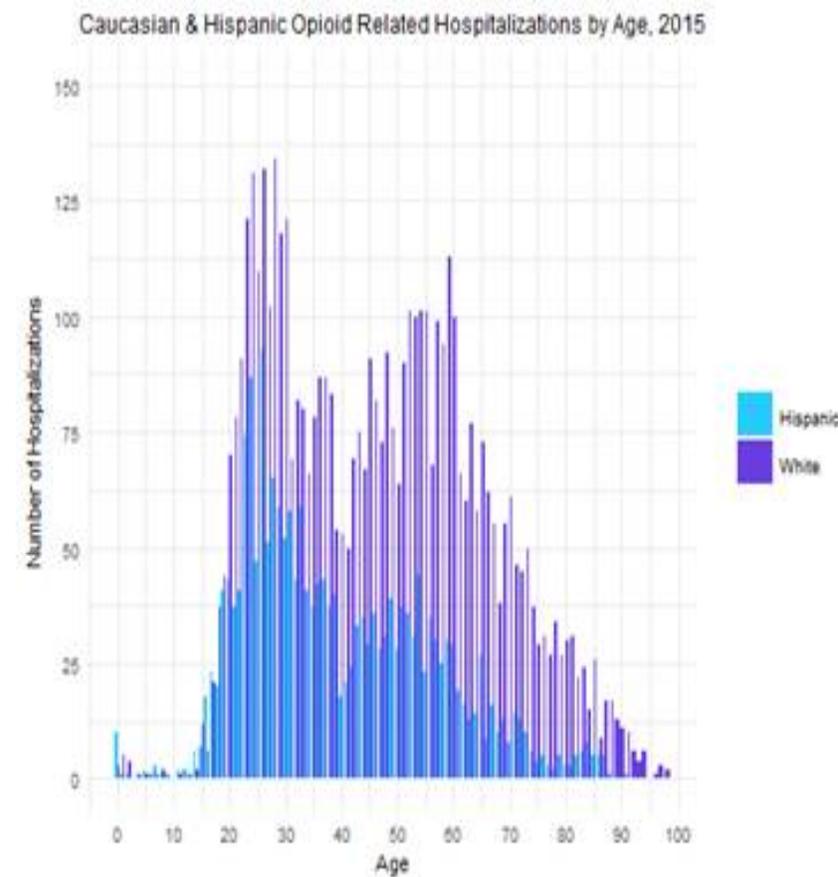
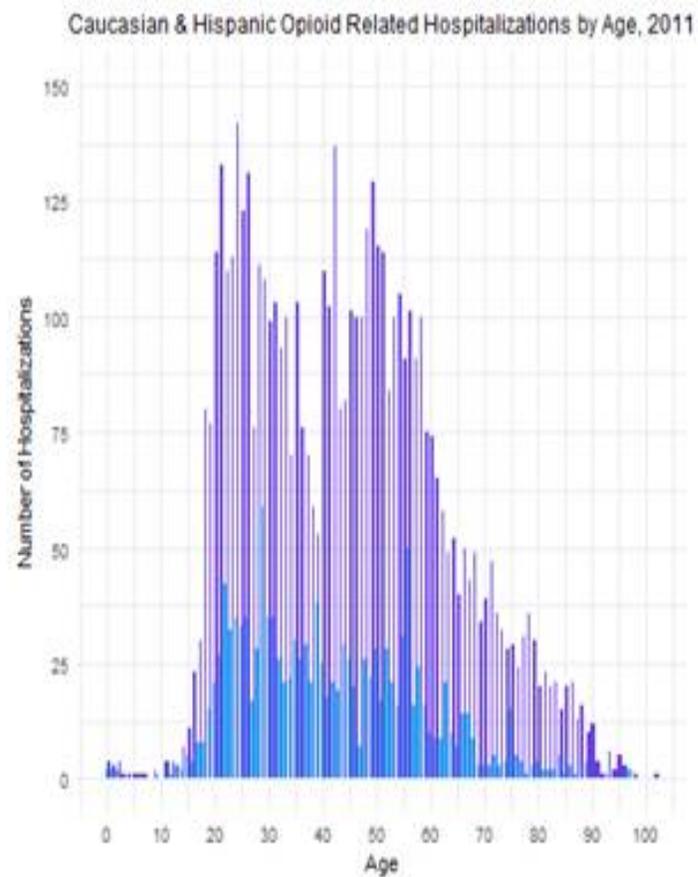
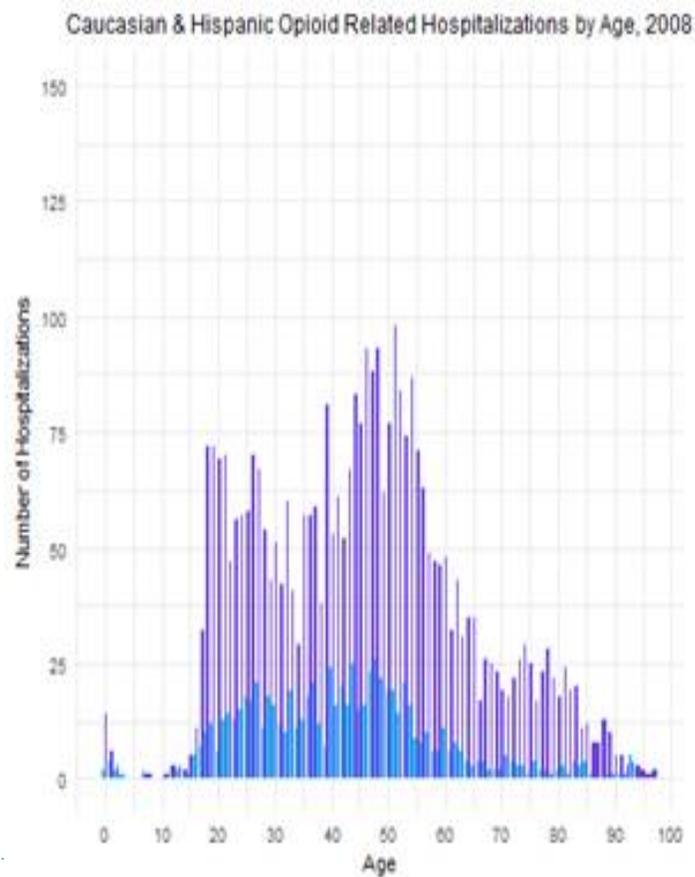
- Significant increase in the number of substance misuse related hospitalizations across age-groups from 20 to 75 years

AZ Hospital Discharge Database

Inpatient Visits Related to Any Opioid Use by Age, 2008 & 2015

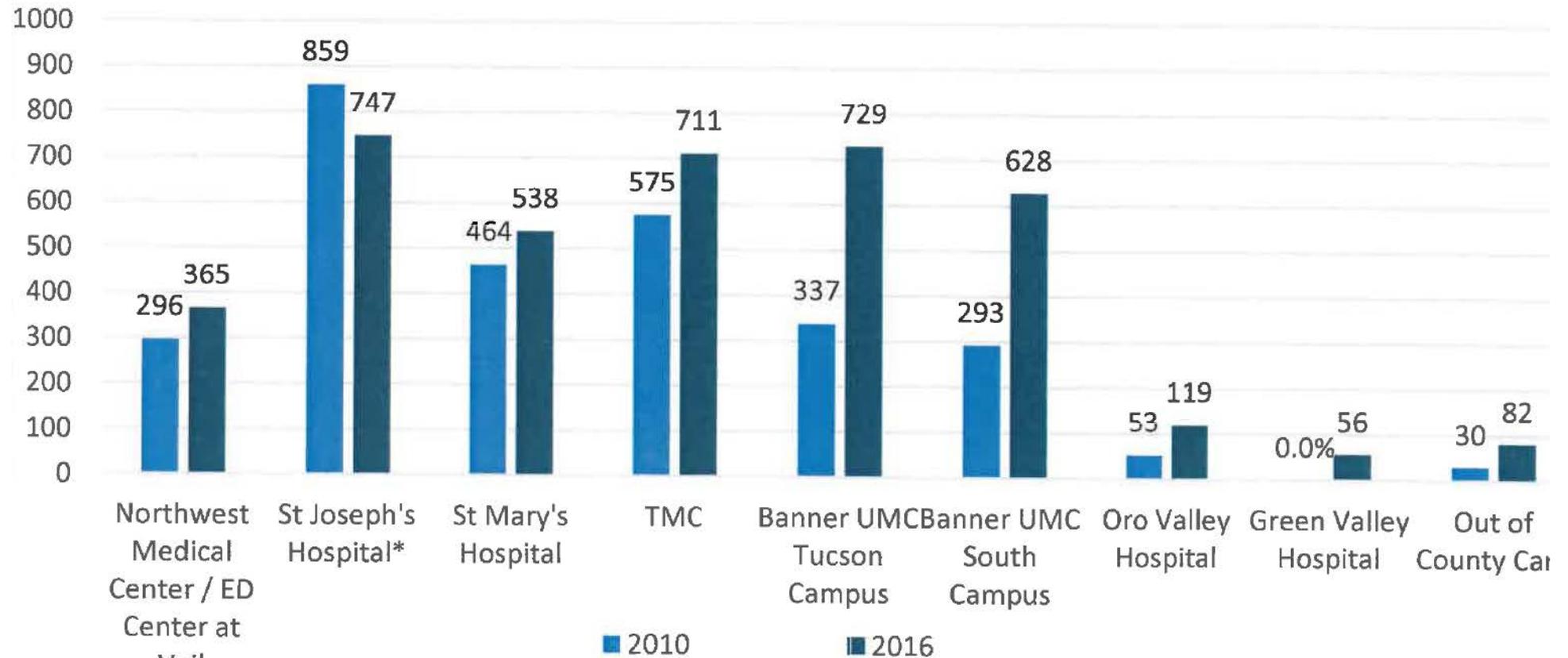


Opioid Related Hospitalization by Age and Ethnicity, 2008, 11 & 15



Opioid Related ED Encounters by Hospital, 2010 & 2016

Opioid related ED encounters have increased for nearly every hospital in Pima County



Opioids, Negative Health Impacts

NEGATIVE IMPACTS TO HEALTH

SHORT-TERM

- Constipation
- Vomiting
- Depression
- Sleepiness
- Lowered Sex-Drive

LONG-TERM

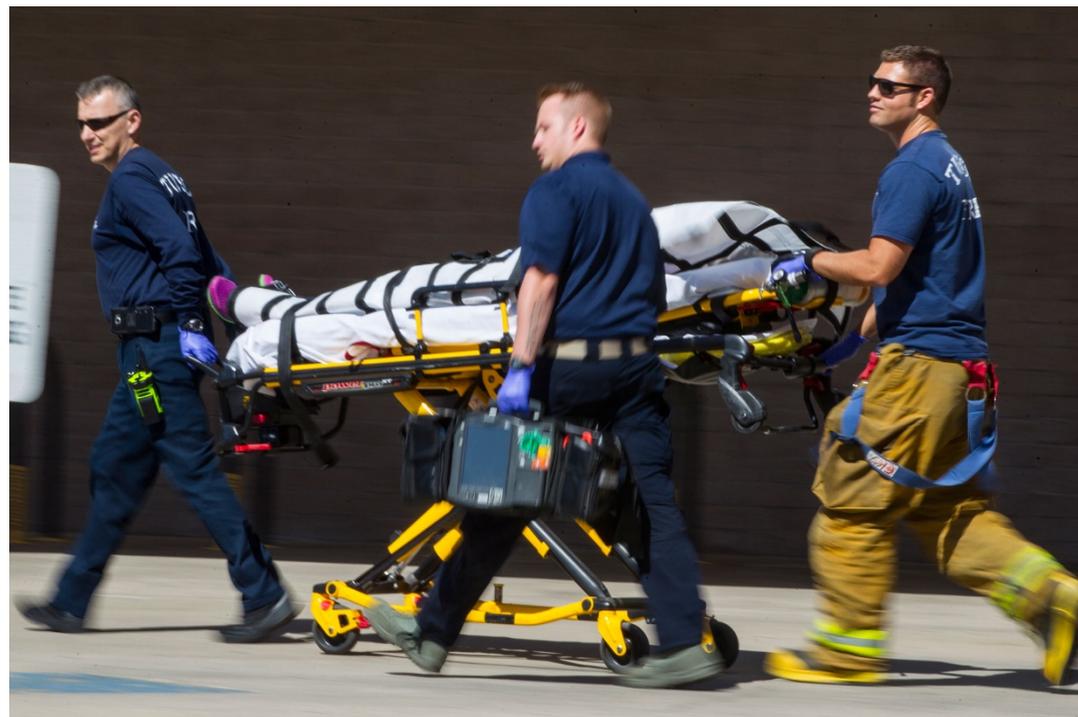
- Brain Damage
- Liver Damage
- Immune Problems
- Suicidal Behaviors
- Death



**COMMON MISUSED MEDICATIONS:
STIMULANTS – SEDATIVES – PAIN RELIEVERS**

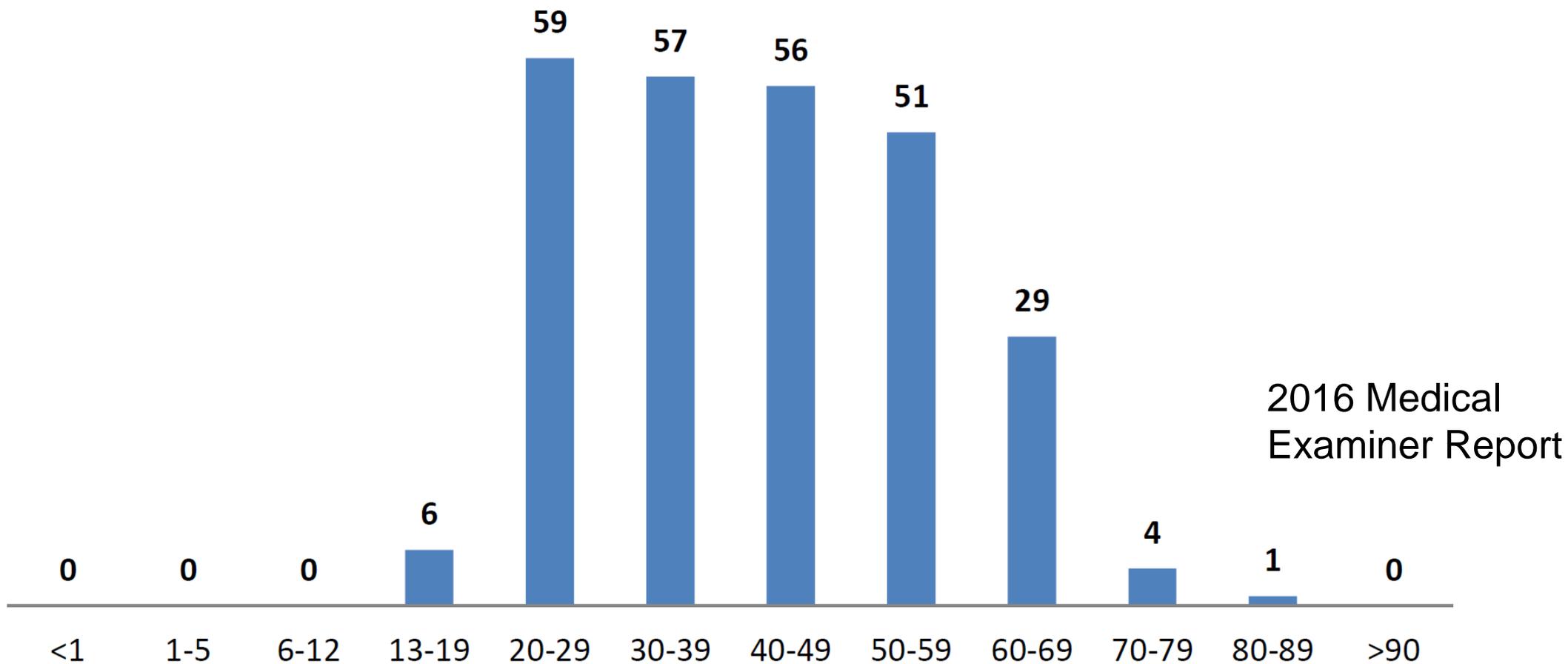
Overdose Deaths in Pima County, 2016

- Overdose accounted for 263 deaths (up from 210 in 2011)
- Male (66%) v. female (34%)
- Single drug (51%) v. multi-drug (49%)
- Overdose is the cause
 - 89% (233) accidental deaths
 - 8% (21) suicide deaths
 - 3% (9) undetermined cause of death



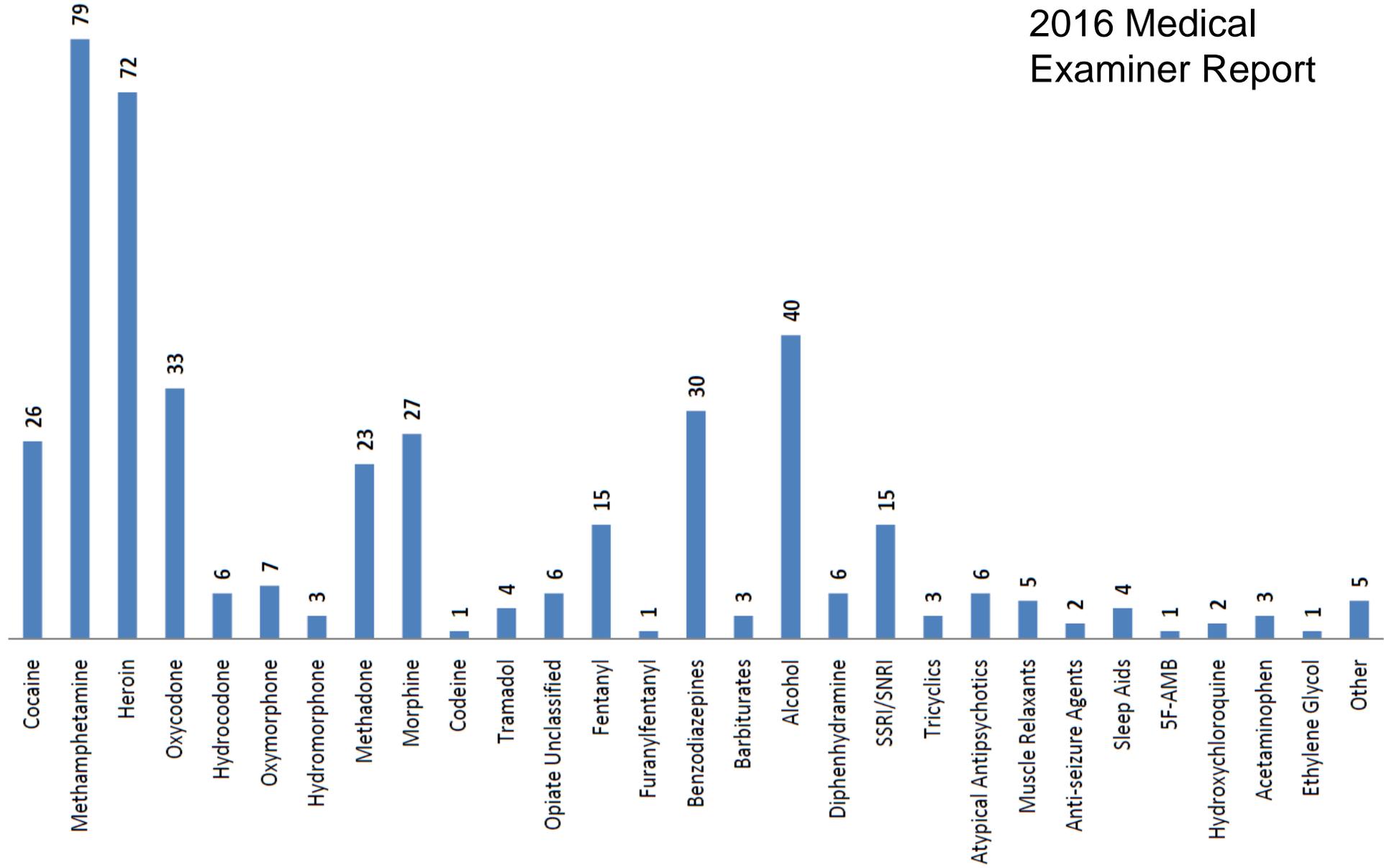
A Healthy Pima County. Everyone. Everywhere. Every day.

Pima County Overdose Deaths by Age-Group, 2016



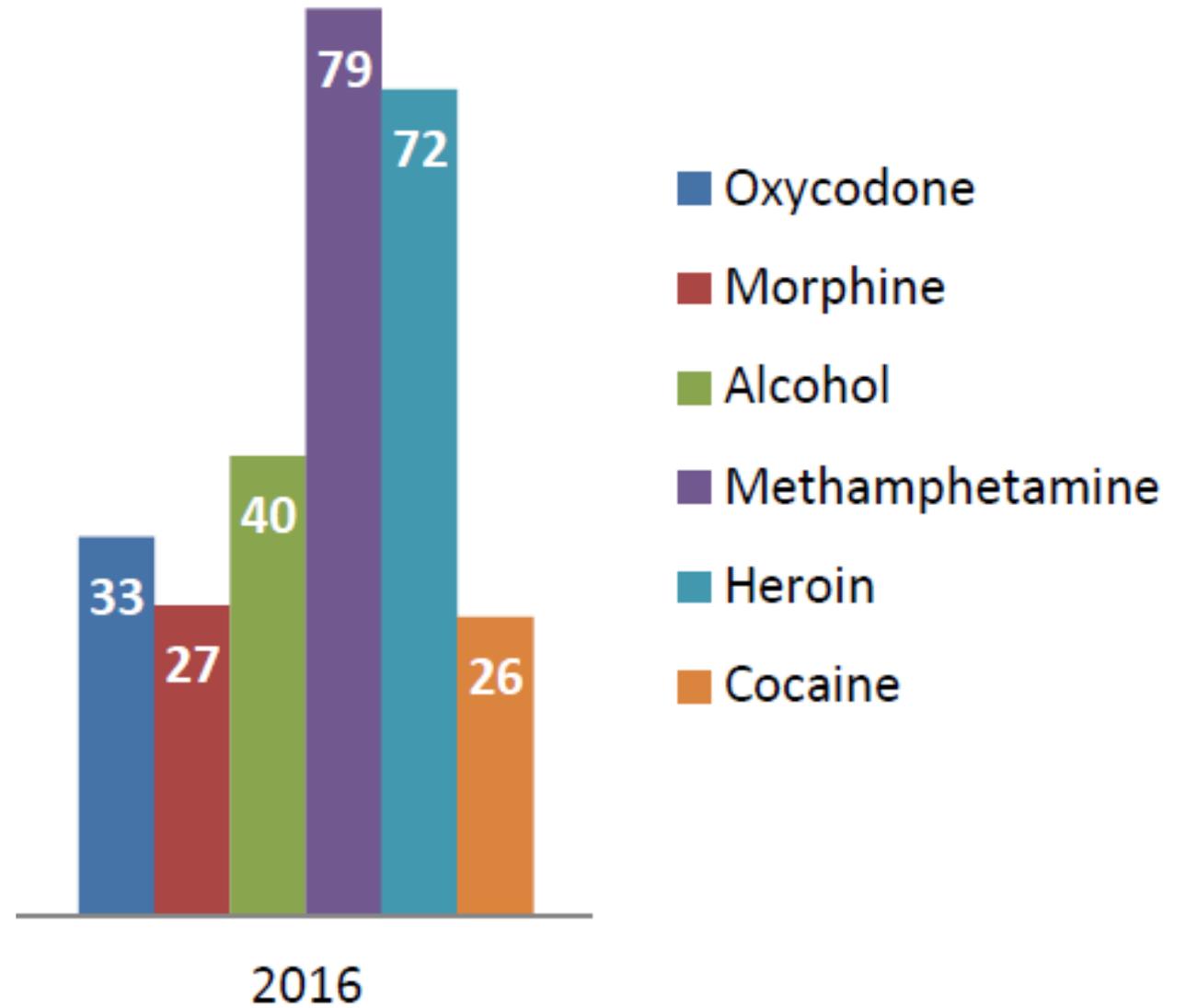
Pima County Overdose Deaths by Drug, 2016

2016 Medical
Examiner Report





Pima County Overdose Deaths by Misused Substance Category, 2016



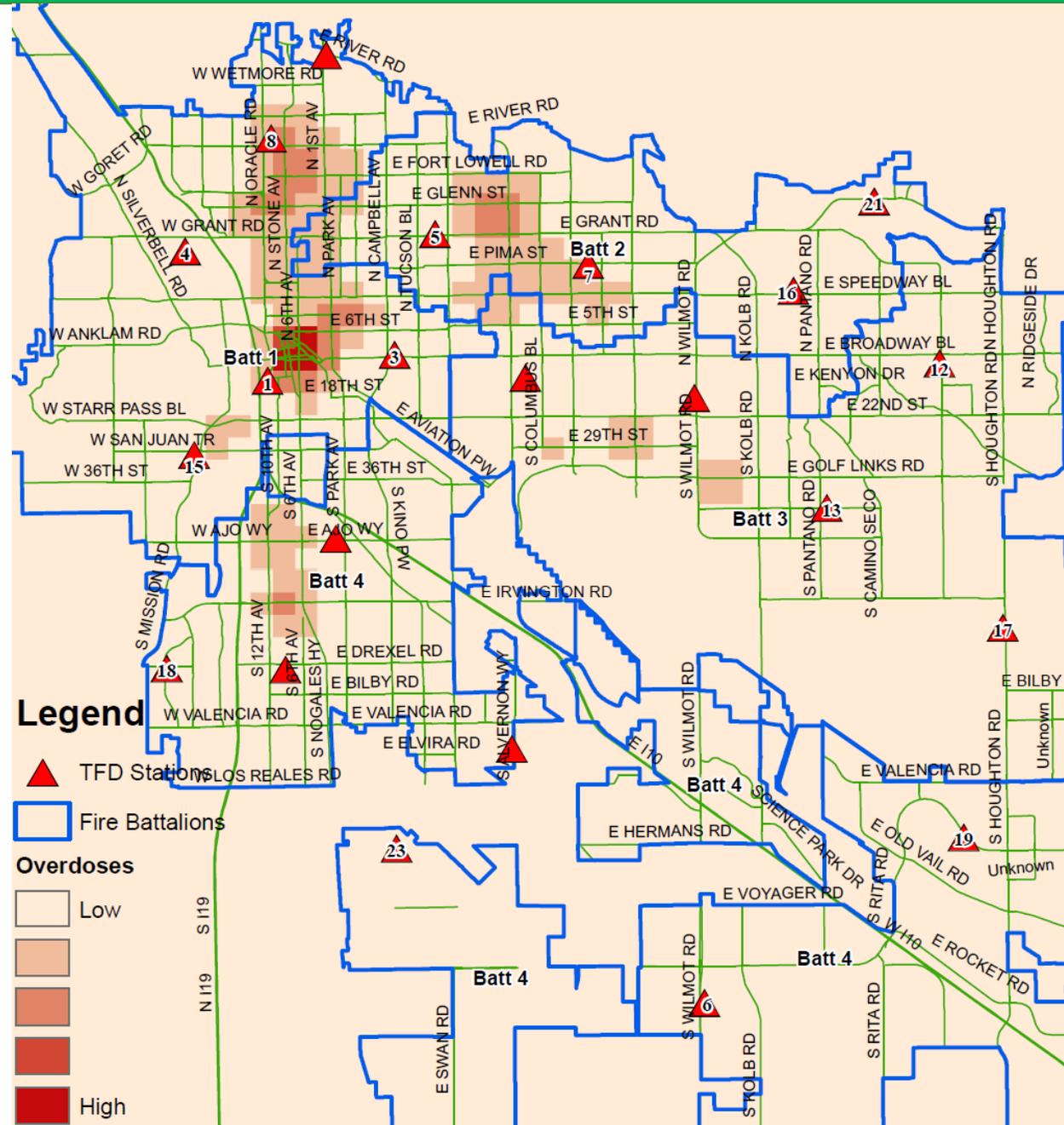
We all pay for substance misuse and addiction, 2016

Hospital Care Setting	2016 Total Charges	2016 Payer Source
Emergency Department	\$24.8 M (\$10M more than 2010)	63% AHCCCS 11% Medicare 9% Commercial 10% Other 7% Self-pay
Inpatient	\$229.4M (\$76M more)	48% AHCCCS 21% Medicare 13% Commercial 16% Other 3% Self-pay

TFD Overdose-Related Call Responses, 2015 to 2017 Q2

2015	1373
2016	1203

Source: TFD



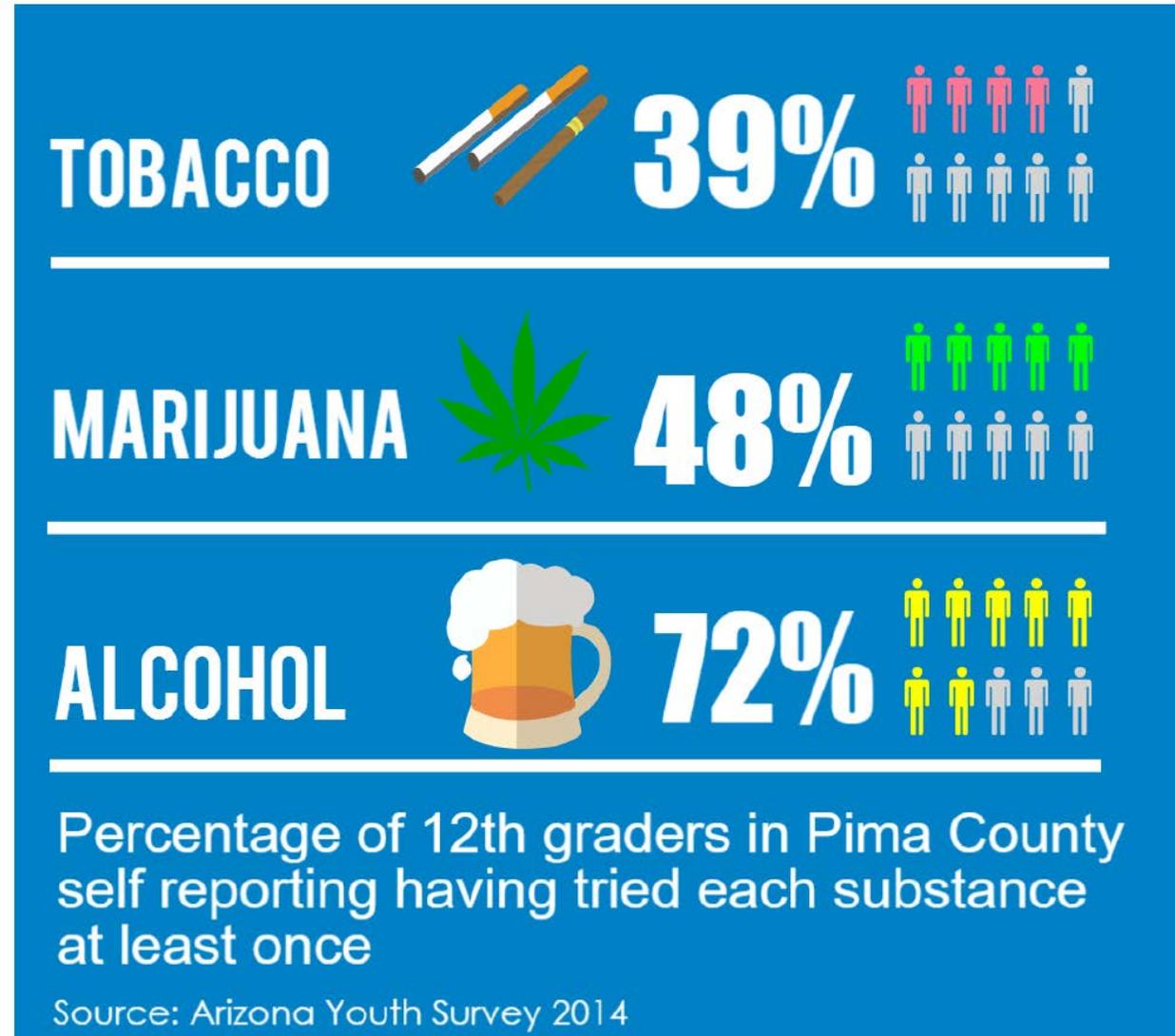
Youth Substance Abuse, Pima County



Youth Substance Use, Pima County

- Students **transitioning** into middle and high school are at **greater risk** for substance abuse
- Most illicit **drug use** starts between ages **14-20** and peaks around 12th grade
- Youth who **abuse** substances are more likely to experience **violence**

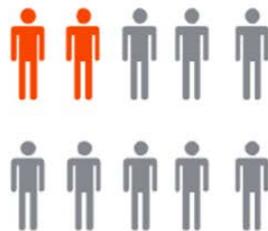
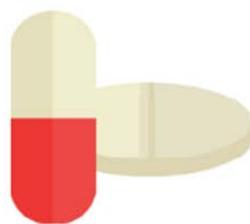
Source: SAMHSA, 2011-2012



Youth Opioid Use

21%

PRESCRIPTION DRUGS/OPIOIDS



Percentage of 12th graders in Pima County self reporting having tried opioids at least once

Source: Arizona Youth Survey 2014

- Students **transitioning** into middle and high school are at **greater risk** for substance abuse
- Most illicit **drug use** starts between ages **14-20** and peaks around 12th grade
- Youth who **abuse** substances are more likely to experience **violence**

Source: SAMHSA, 2011-2012

Costs of Youth Opioid Use

TOLL OF OPIOID USE

Pima County 2010-2015



1,929
youth

*Hospitalization
& E.R. Visits*

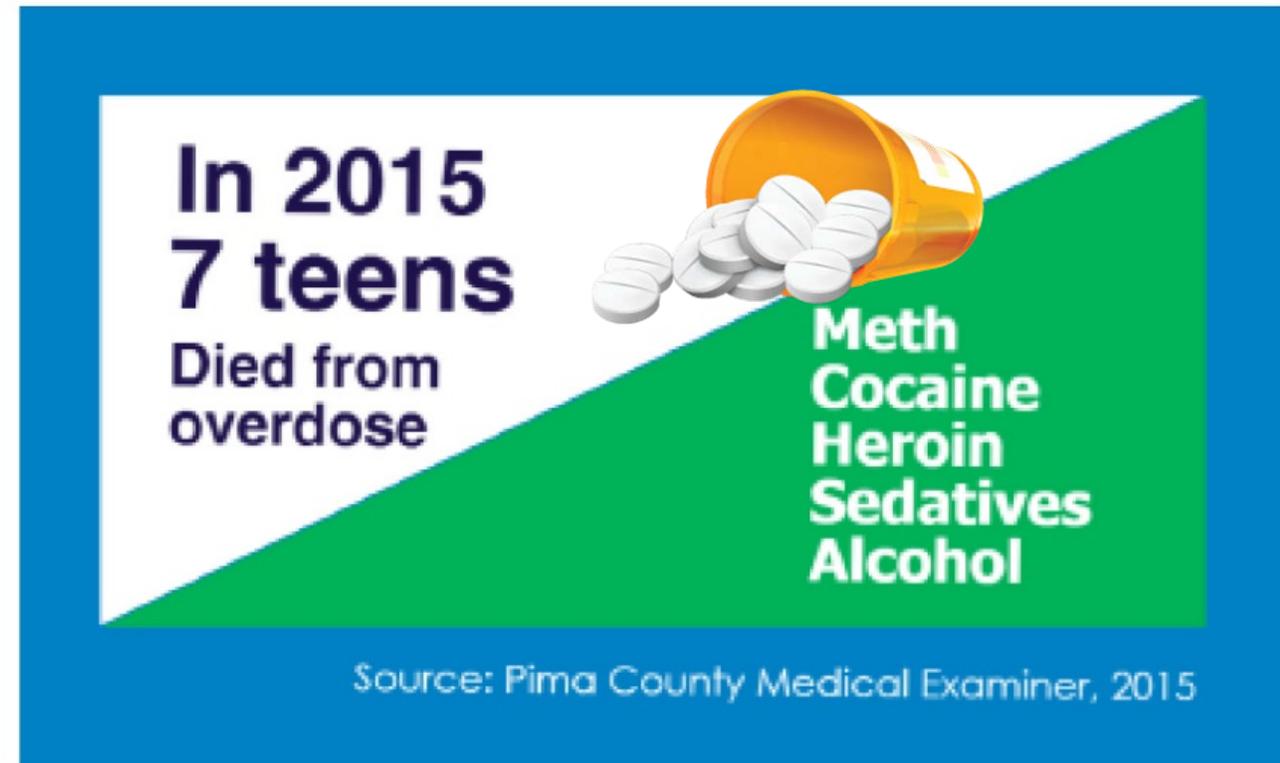


63.2
million

*in Hospital
Charges*

2/3 paid by public funds

Source: ADHS, Hospital Discharge Data 2010-2015



Preventing Substance Abuse

- Youth and Family
 - Healthy home life
 - Consistent parental expectations
 - Drug free friends
 - Healthy habits
 - High self-esteem
 - Have fun
- Medical Community
 - Clinician awareness
 - Medically Assisted Therapy capacity



Building Blocks to Prevent Substance Abuse

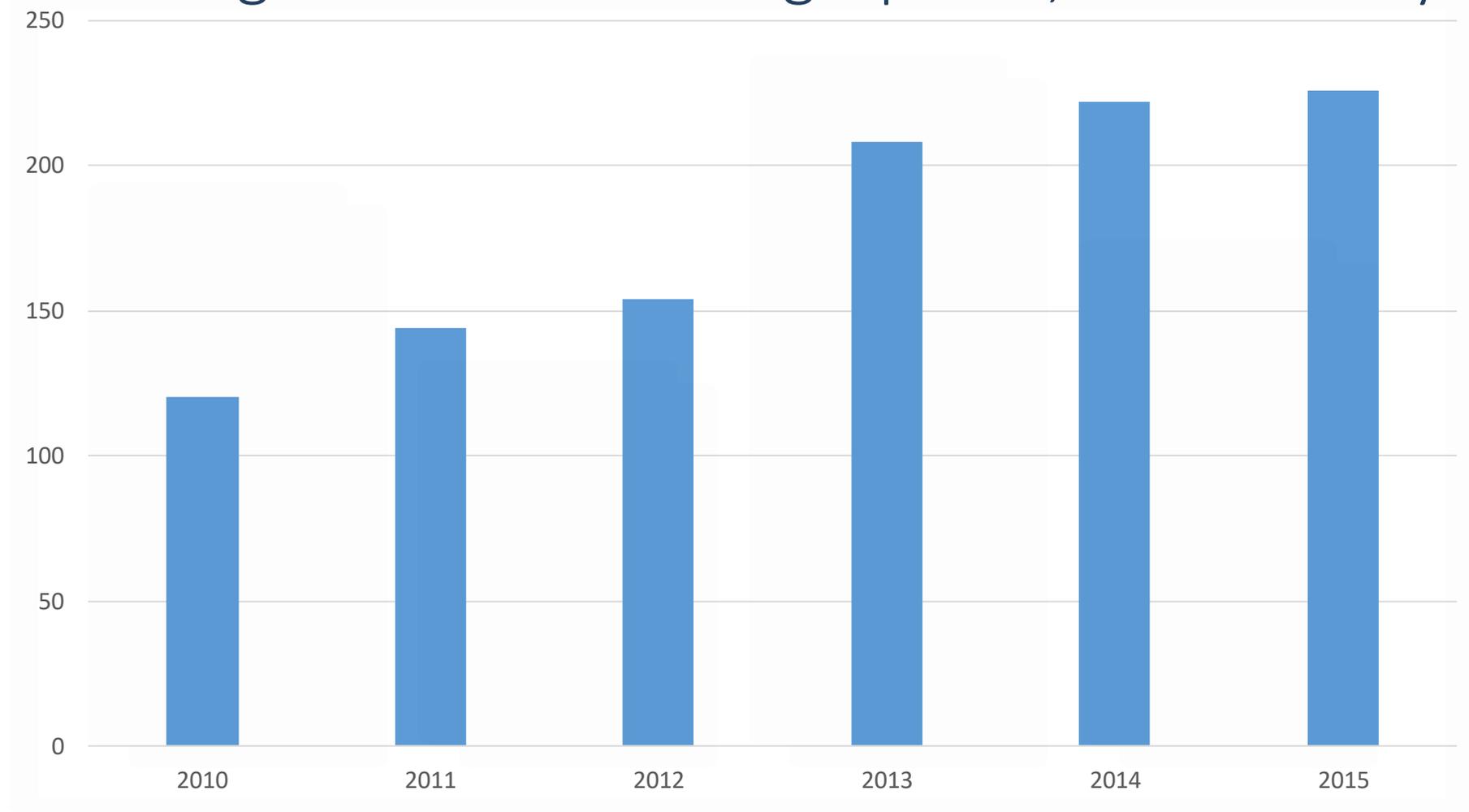
- Neighborhood
 - Clean streets
 - Well-lit areas
 - Safe outdoor spaces
 - Neighborhood connections
- Schools
 - High quality teachers and mentors
 - Encourage school attendance
 - Provide extracurricular activities



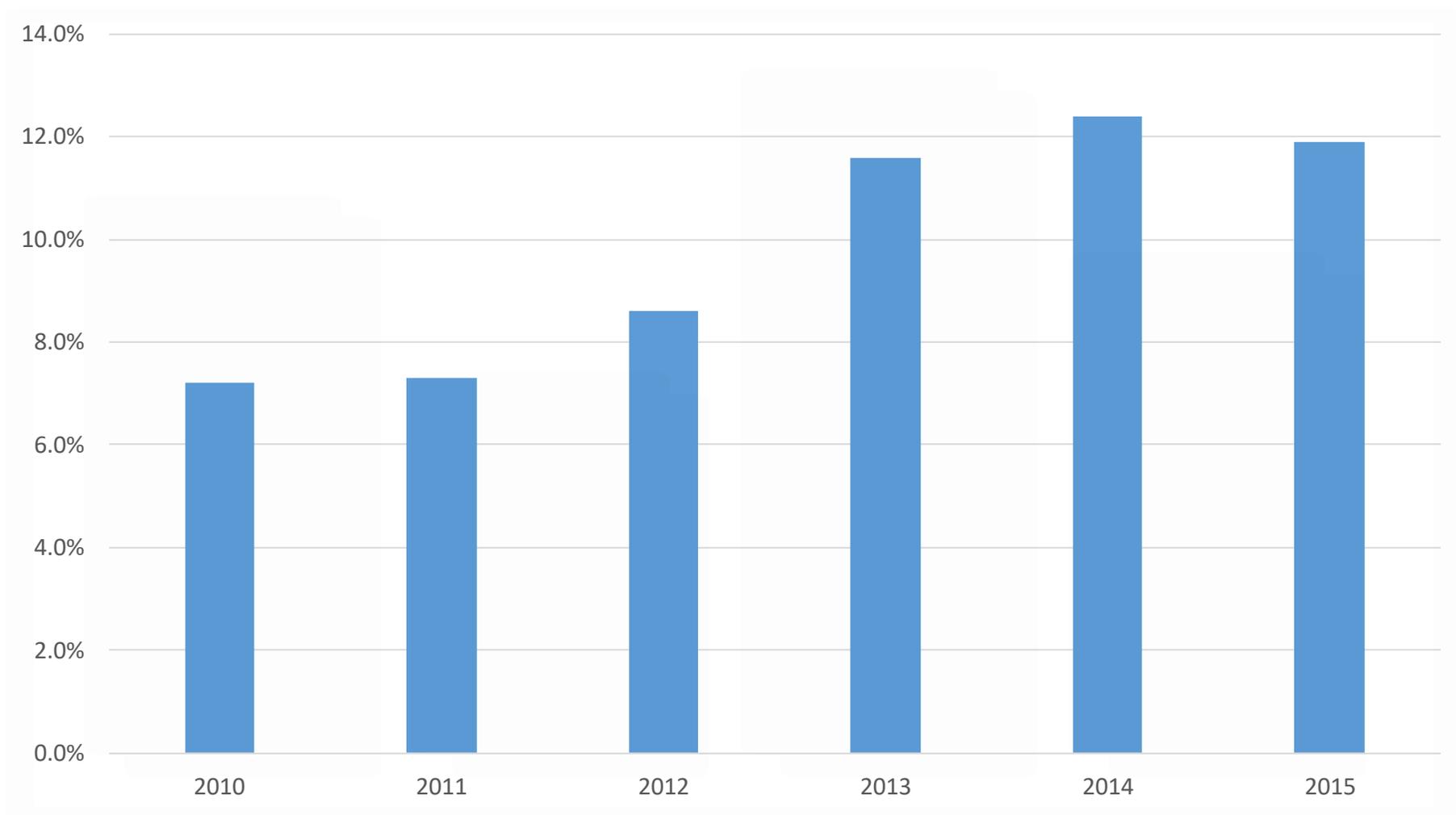
Opioid Use Among Pregnant Women in Pima County



Number of Pregnant Women Using Opioids, Pima County

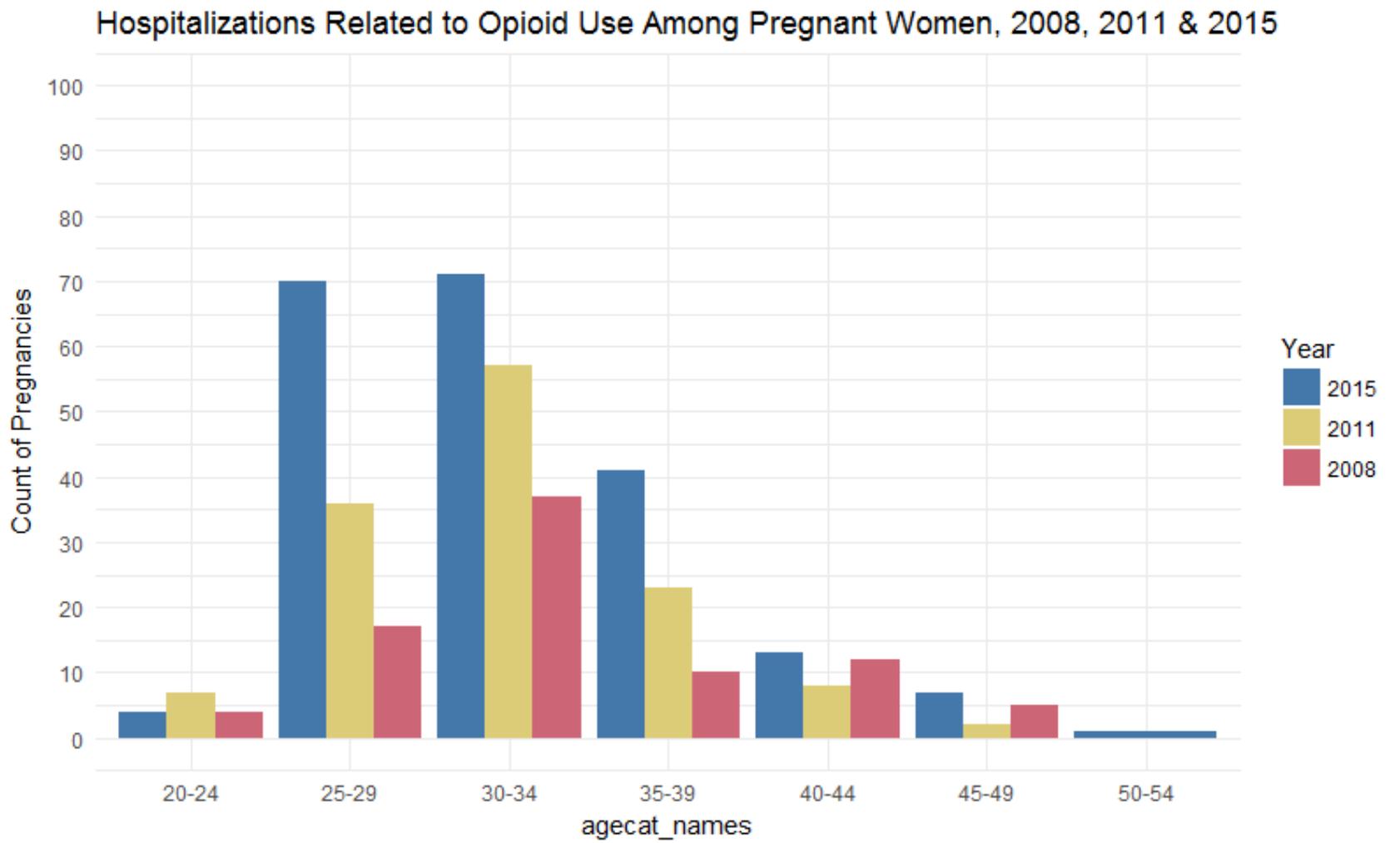


1 in 10 Women Who Use Opioids Are Pregnant



Pregnant Opioid User Hospitalizations by Age-group and Year

Pregnant opioid users are not just increasing in number, they are also getting younger?



Profile of Opioid Related Hospital & ED Visits Pregnant Women, Pima County 2015

- No pregnant opioid overdose deaths
- Racial/Ethnic Breakdown

NH White	51%	Am Ind	5%
Hispanic	37%	Asian	0%
Black/Af Amer	4%	Other	3%
- Medicare/Government payer 89% v Private payer 11%
- Average Hospital Charges: \$12,952/episode
- 1/3 pregnant women in PCADC are opioid involved and on MAT



Preventing Substance Among Pregnant Women

- Individual

- Fostering resilience
- Peer support

- Health Care Systems

- Opioid prescribing guidelines
- Prescription Monitoring Program
- Medically Assisted Therapy
- Correctional care

- Community

- Poverty
- Economic opportunity
- Housing
- Supportive services



Opioid Use Among Seniors in Pima County



Opioid Use Related Hospitalizations Among Seniors, Pima County 2015

Age Group	ED &	ED&Hosp	ED Only	ED Only	Hosp Only	Hosp Only
	Hospital	(%)		(%)		(%)
60-64	496	29.5	162	9.6	334	19.9
65-69	392	23.3	114	6.8	278	16.5
70-74	312	18.6	61	3.6	251	14.9
75-79	184	11.0	43	2.6	141	8.4
80+	296	17.6	65	3.9	231	13.8
Total	1680	100.0	445	26.5	1235	73.5

Deaths 24

Attempt Suicide 30

Profile of Opioid Hospitalized Seniors, Pima County 2015

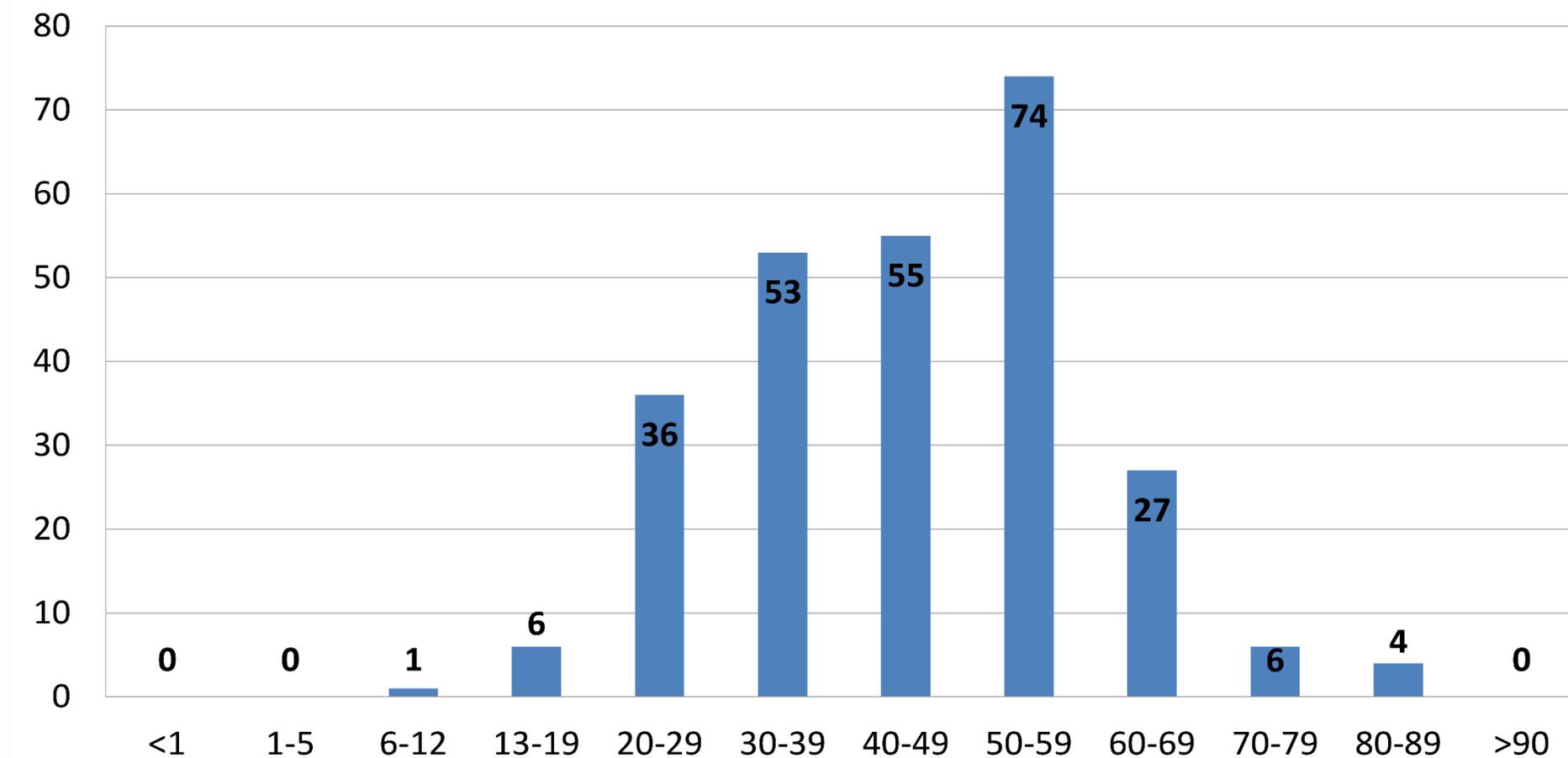
- Female 57.7% v Male 42.3%

- Racial/Ethnic Breakdown

NH White	77%	Am Ind	1.4%
Hispanic	17%	Asian	0.5%
Black/Af Amer	3.4%	Other	0.7%

- Medicare/Government payer 81.3% v Private payer 18.7%
- Average Hospital Stay: 123 hours (5.1 days)
- Prescription Drug 97%

Pima County Overdose Deaths by Age-Group, 2015



2015 Medical
Examiner Report

Preventing Substance Abuse Among Elders

- Individual

- Awareness/PCOA Be Med Smart
- Medication security
- Medication disposal
- Peer support

- Clinician

- Opioid prescribing guidelines
- Prescription Monitoring Program
- Drug interaction awareness
- Polypharmacy

- Community

- Combating isolation
- Supportive services

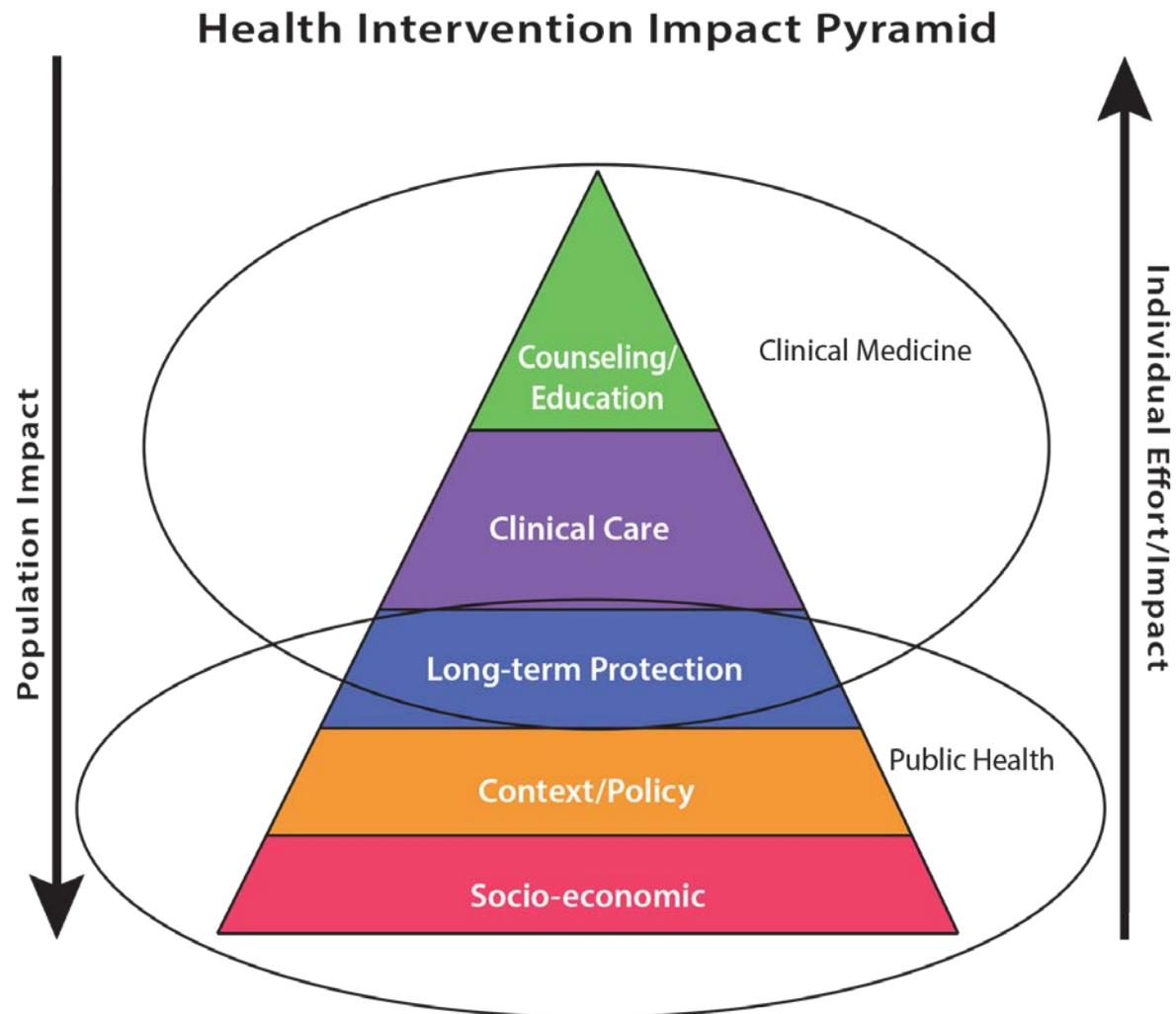


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Opioid Use in Pima County



Framework for Public Health Action



Contact Information

Francisco García, MD, MPH

Assistant County Administrator & Chief Medical Officer

Pima County

130 W Congress St, 10th Floor

Tucson, Arizona 85701

Francisco.garcia@pima.gov

(520) 724-7931

