

**2019**  
**Illinois Pregnancy Risk Assessment**  
**Monitoring System (PRAMS)**  
**Opioid Supplement Data Tables**  
**Data Collection Period April-August 2019**

# Technical Notes

## Collection of Data

The Division of Health Data and Policy, Illinois Department of Public Health collected the 2019 Illinois Pregnancy Risk Assessment Monitoring System (PRAMS) opioid supplement data. Illinois uses the standardized data collection methods developed by the U.S. Centers for Disease Control and Prevention (CDC). These methods also are used by the 47 states and New York City, Puerto Rico, the District of Columbia, and the Great Plains Tribal Chairmen's Health Board (GPTCHB) participating in PRAMS. Data are collected through mailed surveys with telephone follow-up for non-respondents. A systematic stratified random sample of mothers giving birth in the last three to six months is selected monthly from a frame of eligible birth certificates. The number of women sampled each month varies based on the number of eligible birth certificates in the frame file. At two to six months after delivery, each sampled mother is mailed an introductory letter and survey. A reminder letter and two additional survey mailings are sent to those who do not initially respond. PRAMS interviewers telephone mothers who do not respond to any of the mailed surveys to administer the survey by telephone. Surveys are available in English and Spanish, and telephone interviews are conducted in both languages.

In 2019, an opioid supplement consisting of 13 questions was added to the PRAMS survey. The data presented here were collected from April-August 2019. A total of 527 women completed the opioid supplement questions.

## Sampling Design

A systematic stratified random sampling design is used to oversample low birthweight (less than 2,500 grams) births. The sample is stratified by low birthweight (less than 2,500 grams) and normal birthweight (2,500 grams or greater).

## Weighting and Interpretation of Results

Results are based on weighted data. Data were weighted by the CDC using the five-month sampling frame for those selected from April-August, 2019.

The percentages, 95 percent confidence intervals, and total estimated population affected were calculated using Survey Data Analysis (SUDAAN®\*) software. Estimates for response categories with small sample size (i.e., < 30 respondents in the denominator, < 6 respondents in the numerator) are not reported due to possible imprecision and bias.

PRAMS data are representative of Illinois resident women, age 14 years or older, who gave birth in Illinois to live infants. The sampling design is valid at the state level and not intended or developed to represent sub-state geographies or their populations without further evaluation. The data are not applicable to all pregnant women. At the direction of IDPH legal counsel, women younger than 18 years of age were not asked questions about physical abuse.

## Acknowledgements

The Illinois PRAMS project would like to thank all the mothers who took the time to participate in our survey. These women provided valuable information to improve the understanding of why some babies are born healthy and some are not. The Illinois PRAMS project also would like to thank the CDC PRAMS team for their on-going operational and technical support.

This publication was supported by Cooperative Agreement Number U01DP006192-02-04 from the CDC.

Please call 1-866-643-7194 with any questions about Illinois PRAMS or email us at [dph.pramtrac@illinois.gov](mailto:dph.pramtrac@illinois.gov).

Suggested citation: 2019 Illinois PRAMS Opioid Supplement Data Tables, Division of Health Data and Policy, Illinois Department of Public Health, 2020.

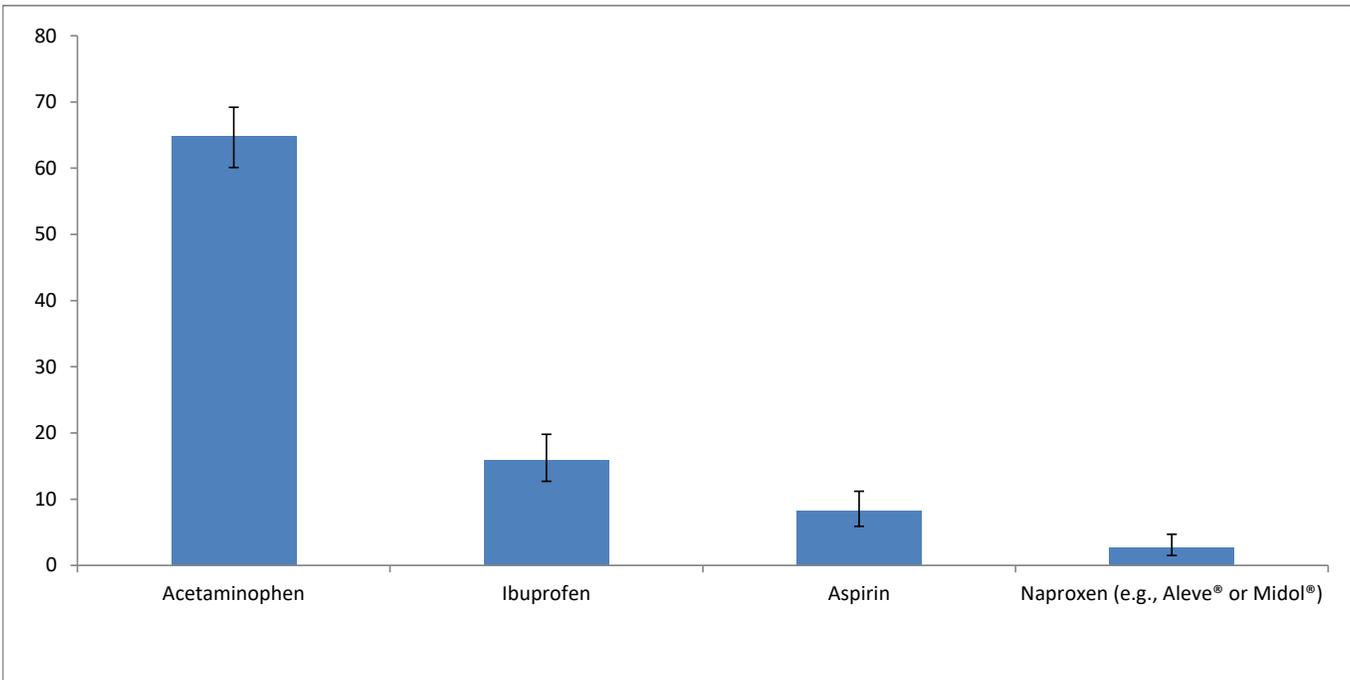
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## Over-the-Counter Pain Reliever Use

Percentage (%) of recent mothers in Illinois who reported using over-the-counter pain relievers during pregnancy

Survey Question O1: During your most recent pregnancy, did you use any of the following over-the-counter pain relievers? Response: Yes



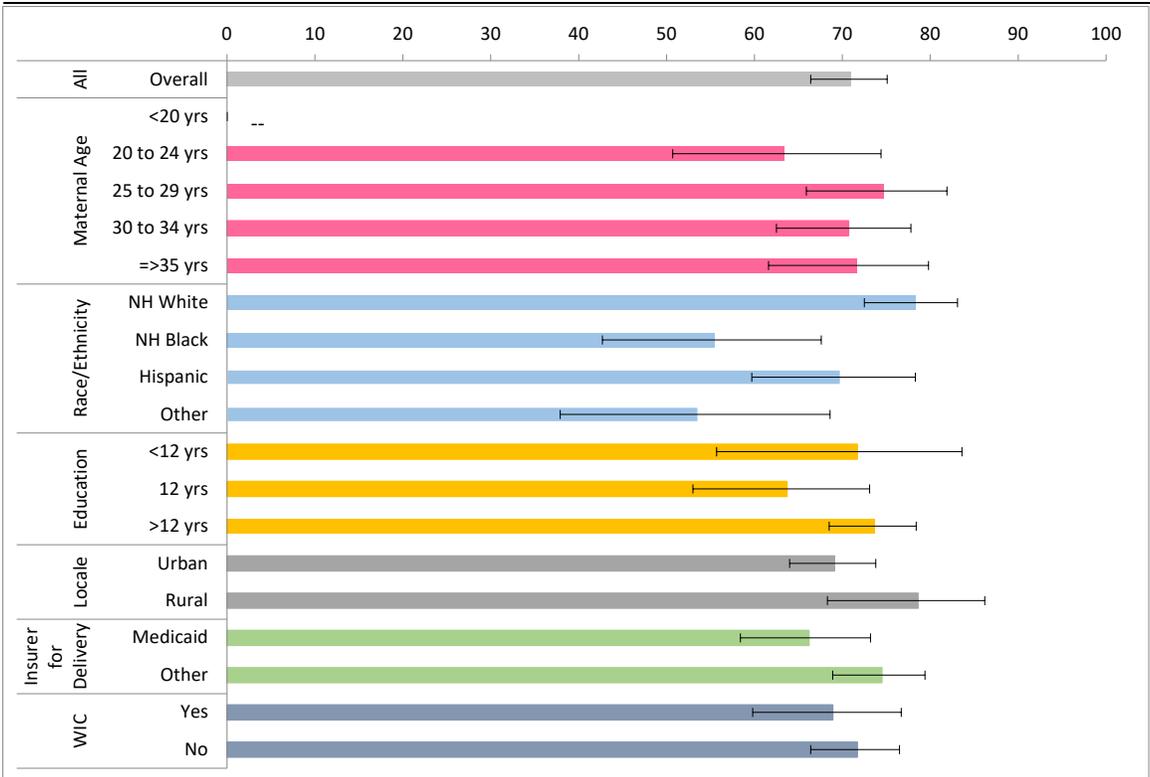
	Percentage <sup>1</sup>	95% CI <sup>2</sup>		Respondents <sup>3</sup>	Estimated Population Affected <sup>4</sup>
Acetaminophen	64.8	60.1	69.2	517	34,037
Ibuprofen	15.9	12.7	19.8	509	8,230
Aspirin	8.2	5.9	11.2	513	4,250
Naproxen (e.g., Aleve® or Midol®)	2.6	1.5	4.7	512	1,374

<sup>1</sup>Percentage = Weighted percentage<sup>2</sup>CI = Confidence interval lower/upper bounds<sup>3</sup>Respondents = The total number who responded to the survey question<sup>4</sup>Estimated Population Affected = Estimated number of Illinois mothers/infants with characteristic or condition

Data collection period April - August 2019

**Table 2** 2019 Phase 8 Illinois PRAMS Data  
**Over-the-Counter Pain Reliever Use**  
**Percentage (%) of recent mothers in Illinois who reported using any type of over-the-counter pain relievers during pregnancy**

**Survey Question O1:** During your most recent pregnancy, did you use any of the following over-the-counter pain relievers? Response: Yes to using any Acetaminophen, Ibuprofen, Aspirin, or Naproxen (e.g., Aleve® or Midol®)



		Percentage <sup>1</sup>	95% CI <sup>2</sup>	Respondents <sup>3</sup>	Estimated Population Affected <sup>4</sup>
<b>All</b>	Overall	71.0	66.4 - 75.1	517	37,277
<b>Maternal Age</b>	<20 yrs	--	--	--	--
	20 to 24 yrs	63.4	50.7 - 74.4	74	5,044
	25 to 29 yrs	74.7	65.9 - 81.9	138	10,279
	30 to 34 yrs	70.7	62.5 - 77.8	163	11,659
	=>35 yrs	71.6	61.6 - 79.8	118	8,097
<b>Race/Ethnicity</b>	NH White	78.3	72.5 - 83.1	269	22,077
	NH Black	55.5	42.7 - 67.6	82	3,914
	Hispanic	69.8	59.7 - 78.3	114	8,830
	Other	53.6	37.9 - 68.6	49	2,316
<b>Education</b>	<12 yrs	71.7	55.7 - 83.6	48	3,766
	12 yrs	63.7	53.0 - 73.1	111	7,759
	>12 yrs	73.7	68.5 - 78.4	355	25,724
<b>Locale</b>	Urban	69.1	64.0 - 73.8	420	29,187
	Rural	78.6	68.3 - 86.2	97	8,090
<b>Birth Weight</b>	Low	68.3	60.3 - 75.5	139	2,688
	Normal	71.2	66.3 - 75.6	378	34,589
<b>Insurer for Delivery</b>	Medicaid	66.2	58.4 - 73.2	194	13,426
	Other	74.5	68.9 - 79.4	317	23,585
<b>WIC</b>	Yes	68.9	59.8 - 76.7	138	10,426
	No	71.7	66.4 - 76.5	372	26,361

<sup>1</sup>Percentage = Weighted percentage

<sup>2</sup>CI = Confidence interval lower/upper bounds

-- Indicates denominator <30 or numerator <6

<sup>3</sup>Respondents = The total number who responded to the survey question

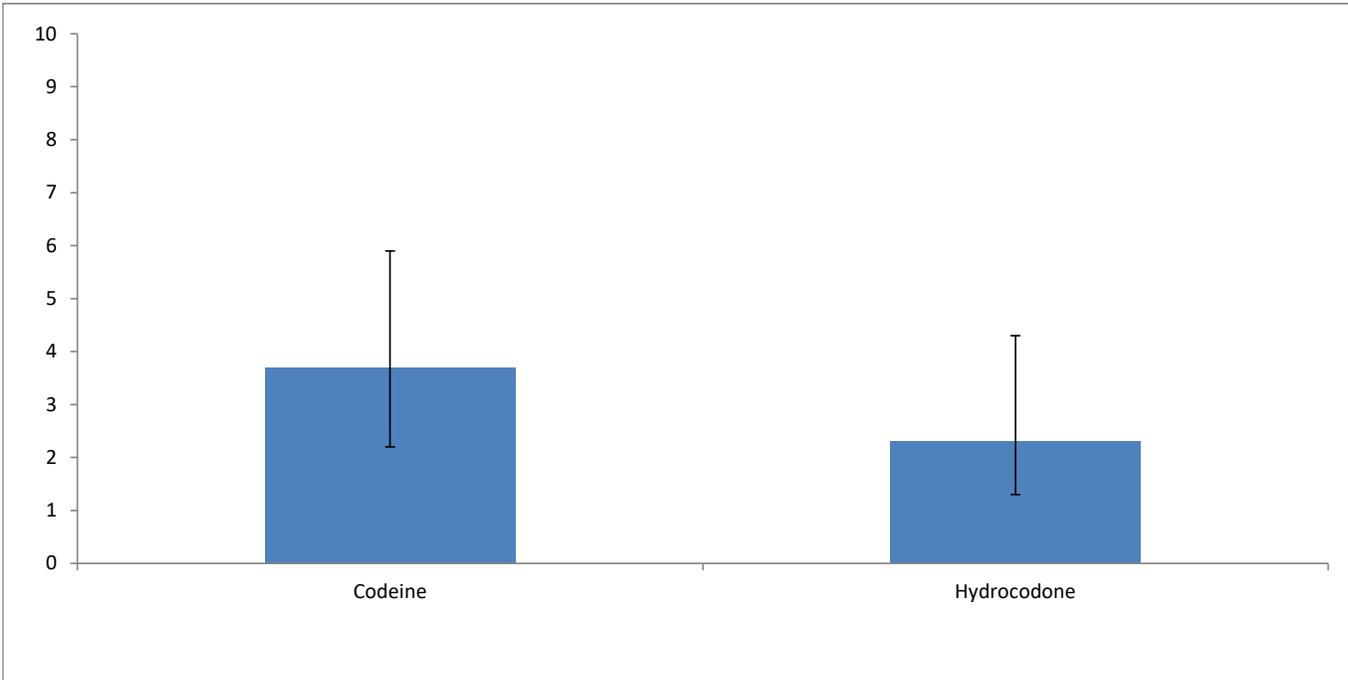
<sup>4</sup>Estimated Population Affected = Estimated number of Illinois mothers/infants with characteristic or condition

Data collection period April - August 2019

Prescription Pain Reliever Use

Percentage (%) of recent mothers in Illinois who reported using prescription pain relievers during pregnancy

Survey Question O2: During your most recent pregnancy, did you use any of the following prescription pain relievers? Response: Yes



	Percentage <sup>1</sup>	95% CI <sup>2</sup>		Respondents <sup>3</sup>	Estimated Population Affected <sup>4</sup>
Codeine	3.7	2.2	5.9	515	1,921
Hydrocodone	2.3	1.3	4.3	513	1,220

<sup>1</sup>Percentage = Weighted percentage

<sup>2</sup>CI = Confidence interval lower/upper bounds

<sup>3</sup>Respondents = The total number who responded to the survey question

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Hydrocodone (like Vicodin®, Norco®, Lortab®)

Codeine (like Tylenol® #3 #4, not regular Tylenol®)

Oxycodone (like Percocet®, Percodan®, OxyContin®, Roxicodone®) - Not reported numerator <6

Tramadol (like Ultram® or Ultracet®) - Not reported numerator <6

Hydromorphone or meperidine (like Demorol®, Exalgo®, Dilaudid®) - Not reported numerator <6

Oxymorphone (like Opana®) - Not reported numerator <6

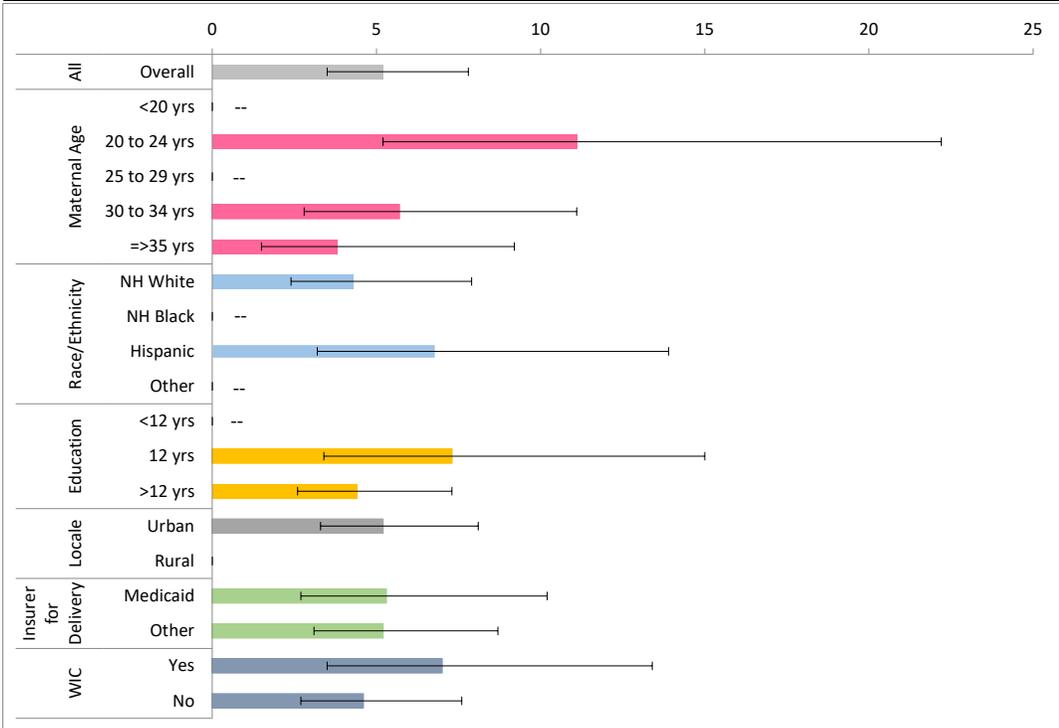
Morphine (like MS Contin®, Avinza®, Kadian®) - Not reported numerator <6

Fentanyl (like Duragesic®, Fentora®, Actiq®) - Not reported numerator <6

Prescription Pain Reliever Use

Percentage (%) of recent mothers in Illinois who reported using any type of prescription pain relievers during pregnancy

Survey Question O2: During your most recent pregnancy, did you use any of the following prescription pain relievers? Response: Yes to using any Hydrocodone, Codeine, Oxycodone, Tramadol, Hydromorphone, Oxymorphone, Morphine, Fentanyl



		Percentage <sup>1</sup>	95% CI <sup>2</sup>	Respondents <sup>3</sup>	Estimated Population Affected <sup>4</sup>
All	Overall	5.2	3.5 7.8	513	2,721
Maternal Age	<20 yrs	--	-- --	--	--
	20 to 24 yrs	11.1	5.2 22.2	73	868
	25 to 29 yrs	--	-- --	--	--
	30 to 34 yrs	5.7	2.8 11.1	162	926
	=>35 yrs	3.8	1.5 9.2	116	422
Race/Ethnicity	NH White	4.3	2.4 7.9	268	1,220
	NH Black	--	-- --	--	--
	Hispanic	6.8	3.2 13.9	113	855
	Other	--	-- --	--	--
Education	<12 yrs	--	-- --	--	--
	12 yrs	7.3	3.4 15.0	110	883
	>12 yrs	4.4	2.6 7.3	353	1,530
Locale	Urban	5.2	3.3 8.1	416	2,160
	Rural	--	-- --	--	--
Birth Weight	Low	6.5	3.5 12.0	138	255
	Normal	5.1	3.3 7.9	375	2,466
Insurer for Delivery	Medicaid	5.3	2.7 10.2	191	1,066
	Other	5.2	3.1 8.7	316	1,655
WIC	Yes	7.0	3.5 13.4	135	1,037
	No	4.6	2.7 7.6	371	1,684

<sup>1</sup>Percentage = Weighted percentage

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<sup>4</sup>Estimated Population Affected = Estimated number of Illinois mothers/infants with characteristic or condition

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Hydrocodone (like Vicodin®, Norco®, Lortab®)

Hydromorphone or meperidine (like Demorol®, Exalgo®, Dilaudid®)

Codeine (like Tylenol® #3 #4, not regular Tylenol®)

Oxymorphone (like Opana®)

Oxycodone (like Percocet®, Percodan®, OxyContin®, Roxicodone®)

Morphine (like MS Contin®, Avinza®, Kadian®)

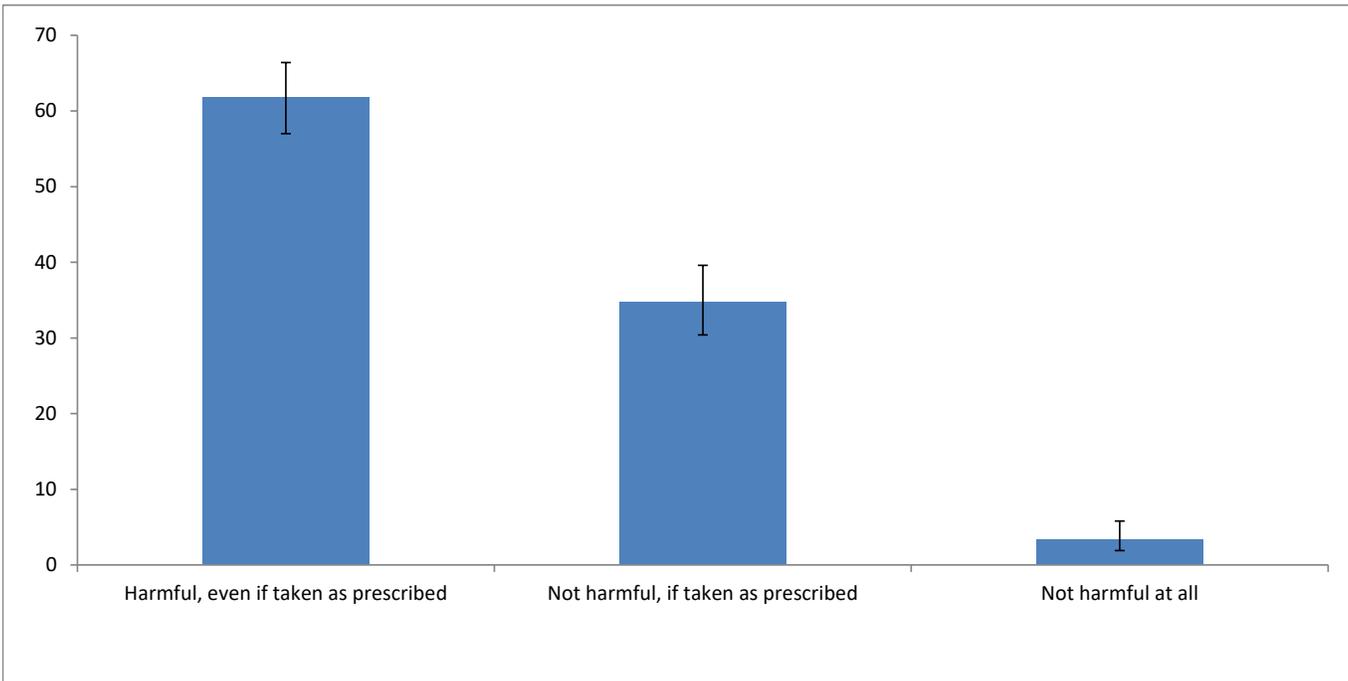
Tramadol (like Ultram® or Ultracet®)

Fentanyl (like Duragesic®, Fentora®, Actiq®)

Perception of Harm

Percentage (%) of recent mothers in Illinois reporting how harmful they believe prescription pain reliever use is for a baby's health

Survey Question O10: Do you think the use of prescription pain relievers during pregnancy could be harmful to a baby's health?



	Percentage <sup>1</sup>	95% CI <sup>2</sup>		Respondents <sup>3</sup>	Estimated Population Affected <sup>4</sup>
Harmful, even if taken as prescribed	61.8	57.0	66.4	500	31,454
Not harmful, if taken as prescribed	34.8	30.4	39.6	500	17,742
Not harmful at all	3.4	1.9	5.8	500	1,723

<sup>1</sup>Percentage = Weighted percentage

<sup>2</sup>CI = Confidence interval lower/upper bounds

<sup>3</sup>Respondents = The total number who responded to the survey question

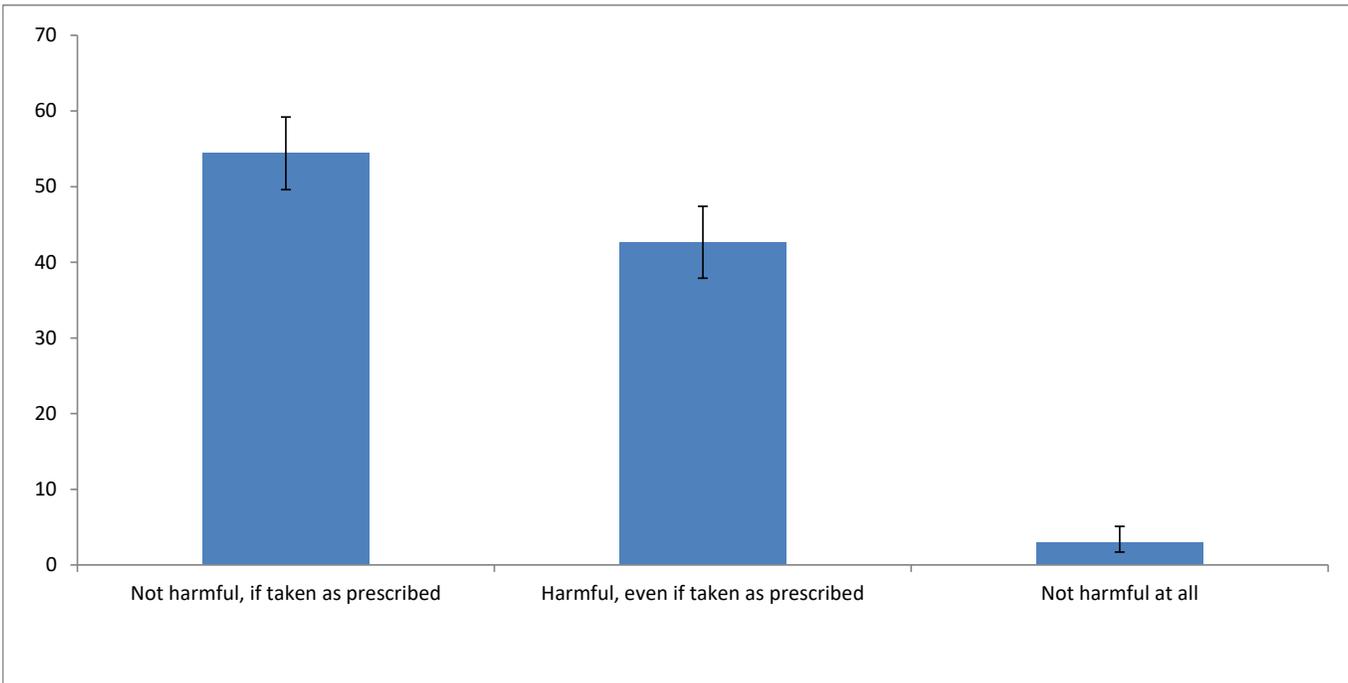
<sup>4</sup>Estimated Population Affected = Estimated number of Illinois mothers/infants with characteristic or condition

Data collection period April - August 2019

Perception of Harm

Percentage (%) of recent mothers in Illinois reporting how harmful they believe prescription pain reliever use is for a woman's health

Survey Question O11: Do you think the use of prescription pain relievers could be harmful to a woman's own health?



	Percentage <sup>1</sup>	95% CI <sup>2</sup>		Respondents <sup>3</sup>	Estimated Population Affected <sup>4</sup>
Not harmful, if taken as prescribed	54.4	49.6	59.2	503	27,770
Harmful, even if taken as prescribed	42.6	37.9	47.4	503	21,706
Not harmful at all	3.0	1.7	5.1	503	1,529

<sup>1</sup>Percentage = Weighted percentage

<sup>2</sup>CI = Confidence interval lower/upper bounds

<sup>3</sup>Respondents = The total number who responded to the survey question

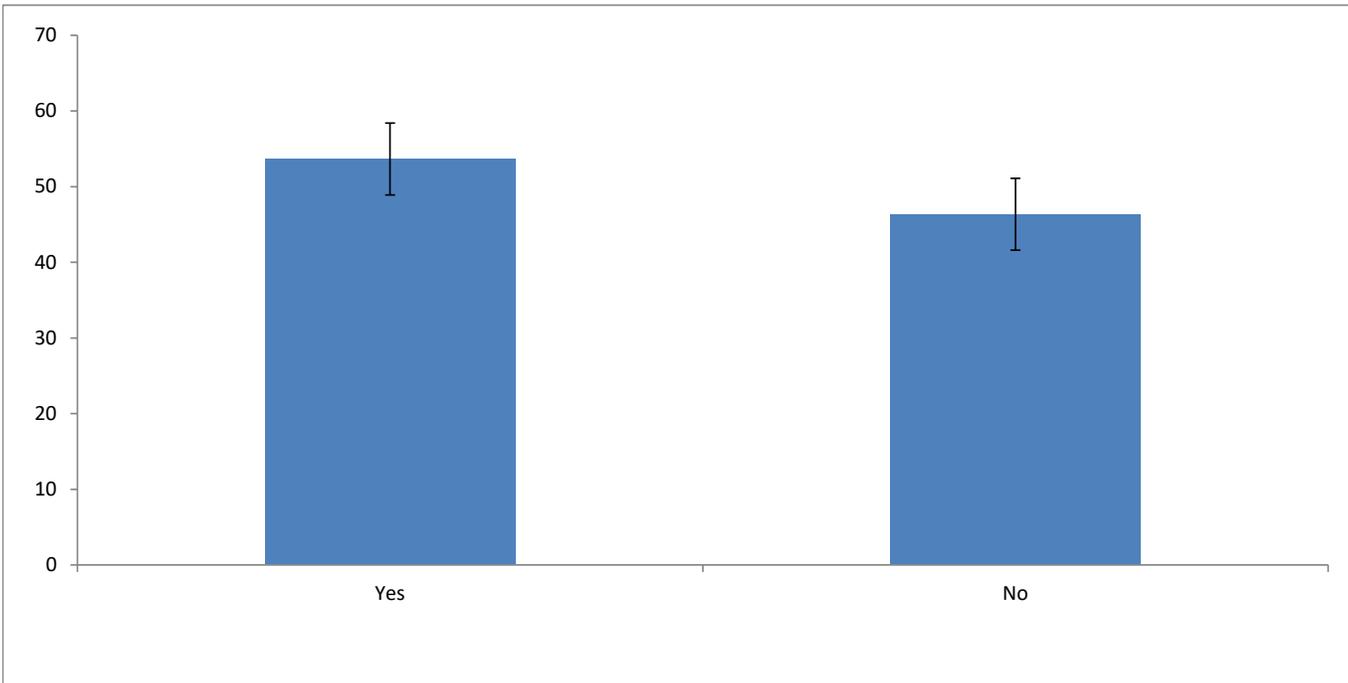
<sup>4</sup>Estimated Population Affected = Estimated number of Illinois mothers/infants with characteristic or condition

Data collection period April - August 2019

Health Care Worker Discussion

Percentage (%) of recent mothers in Illinois reporting a health care worker discussed affects on baby of using prescription pain relievers during pregnancy

Survey Question O12: At any time during your most recent pregnancy, did a doctor, nurse, or other health care worker talk with you about how using prescription pain relievers during pregnancy could effect a baby?



	Percentage <sup>1</sup>	95% CI <sup>2</sup>		Respondents <sup>3</sup>	Estimated Population Affected <sup>4</sup>
Yes	53.7	48.9	58.4	507	27,562
No	46.3	41.6	51.1	507	23,807

<sup>1</sup>Percentage = Weighted percentage

<sup>2</sup>CI = Confidence interval lower/upper bounds

<sup>3</sup>Respondents = The total number who responded to the survey question

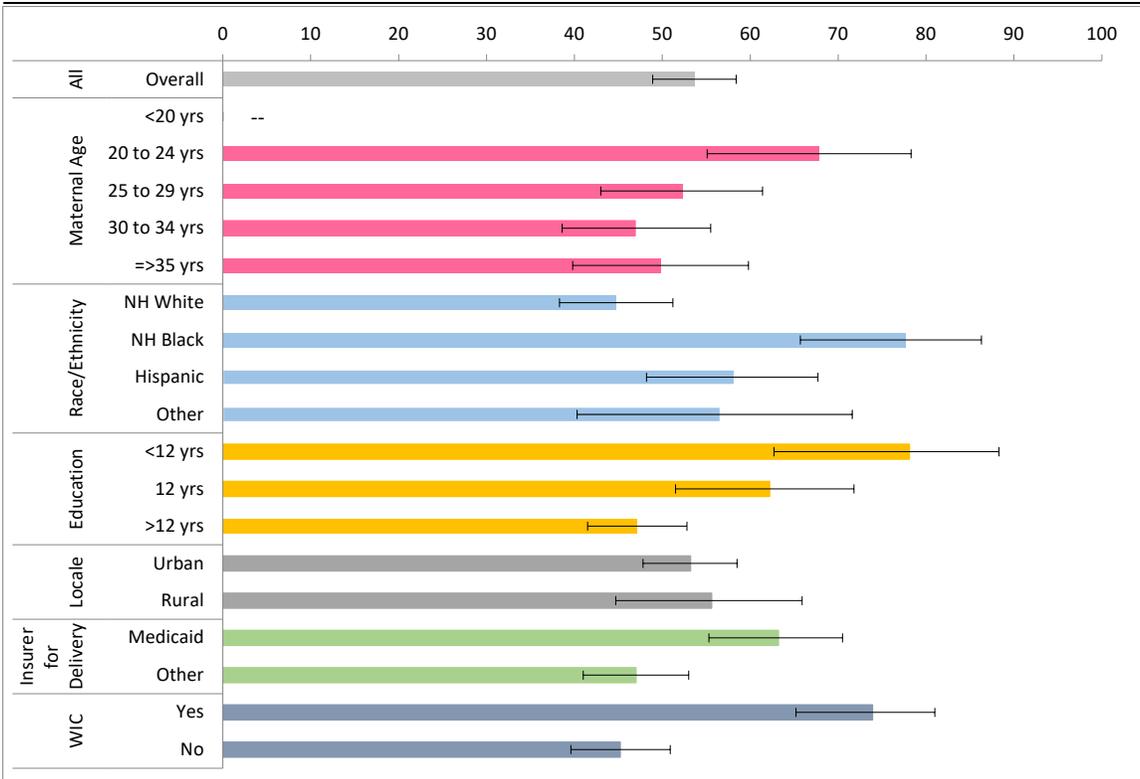
<sup>4</sup>Estimated Population Affected = Estimated number of Illinois mothers/infants with characteristic or condition

Data collection period April - August 2019

Prescription Pain Reliever Education

Percentage (%) of recent mothers in Illinois who reported a health care worker discussed affects on baby of using prescription pain relievers during pregnancy

Survey Question O12: At any time during your most recent pregnancy, did a doctor, nurse, or other health care worker talk with you about how using prescription pain relievers during pregnancy could effect a baby? Response: Yes



		Percentage <sup>1</sup>	95% CI <sup>2</sup>		Respondents <sup>3</sup>	Estimated Population Affected <sup>4</sup>
<b>All</b>	Overall	53.7	48.9	58.4	507	27,562
<b>Maternal Age</b>	<20 yrs	--	--	--	--	--
	20 to 24 yrs	67.8	55.1	78.3	74	5,395
	25 to 29 yrs	52.3	43.0	61.4	136	7,122.1
	30 to 34 yrs	46.9	38.6	55.5	158	7,433
	=>35 yrs	49.8	39.8	59.8	115	5,442
<b>Race/Ethnicity</b>	NH White	44.7	38.3	51.2	263	12,281
	NH Black	77.7	65.7	86.3	80	5,273.1
	Hispanic	58.2	48.2	67.7	113	7,354
	Other	56.6	40.3	71.6	48	2,359.8
<b>Education</b>	<12 yrs	78.1	62.7	88.3	48	4,102.3
	12 yrs	62.2	51.5	71.8	109	7,463
	>12 yrs	47.1	41.5	52.8	347	15,969
<b>Locale</b>	Urban	53.2	47.8	58.5	411	21,859
	Rural	55.6	44.7	65.9	96	5,704
<b>Birth Weight</b>	Low	47.1	39.0	55.3	138	1,839
	Normal	54.2	49.0	59.3	369	25,723
<b>Insurer for Delivery</b>	Medicaid	63.2	55.3	70.5	191	12,584
	Other	47.0	41.0	53.0	310	14,502
<b>WIC</b>	Yes	73.9	65.2	81.0	136	10,983
	No	45.2	39.6	50.9	364	16,201

<sup>1</sup>Percentage = Weighted percentage

<sup>2</sup>CI = Confidence interval lower/upper bounds

-- Indicates denominator <30 or numerator <6

<sup>3</sup>Respondents = The total number who responded to the survey question

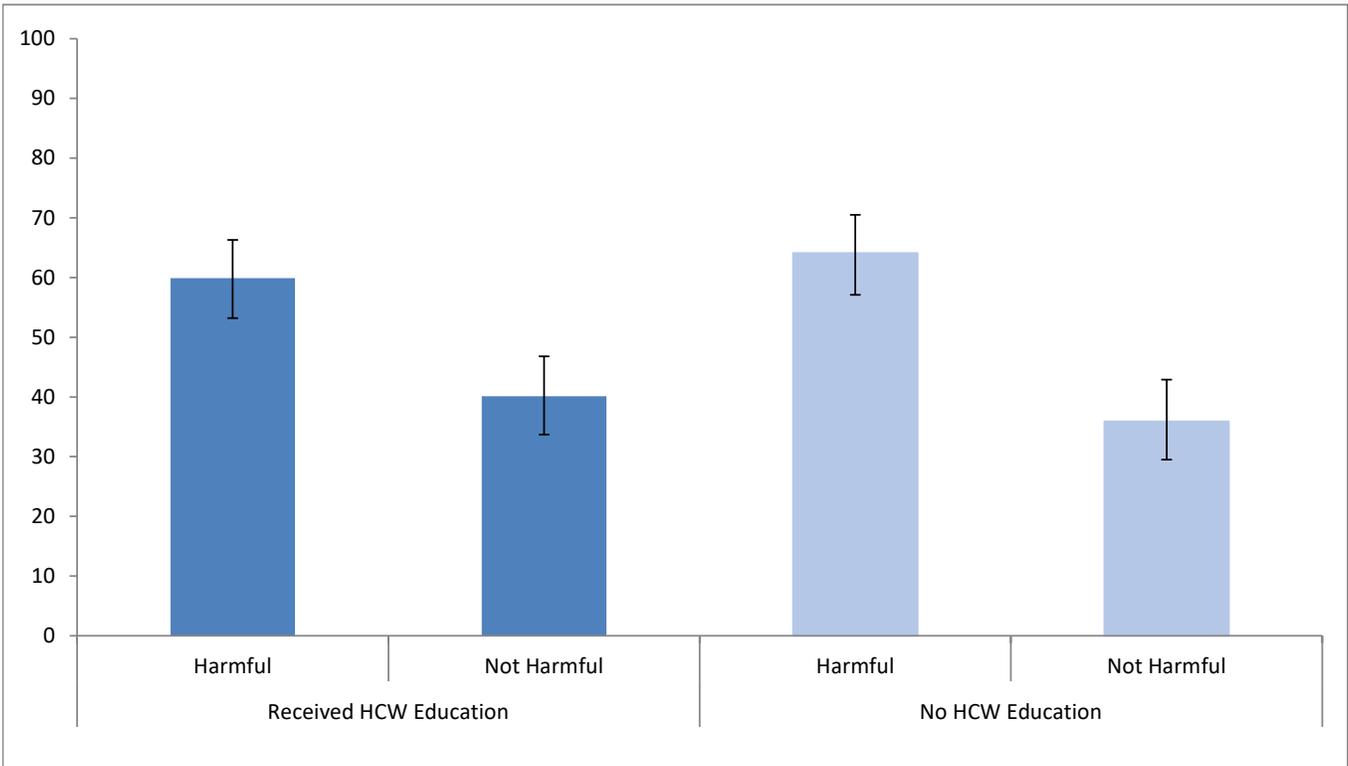
<sup>4</sup>Estimated Population Affected = Estimated number of Illinois mothers/infants with characteristic or condition

**Health Care Worker Education and Perception of Harm**

**Percentage (%) of recent mothers in Illinois reporting health care worker (HCW) education about prescription pain reliever use during pregnancy and perceived harmfulness of pain reliever use to the infant**

**Survey Question O12:** At any time during your most recent pregnancy, did a doctor, nurse, or other health care worker talk with you about how using prescription pain relievers during pregnancy could effect a baby?

**Survey Question O10:** Do you think the use of prescription pain relievers during pregnancy could be harmful to a baby's health? Responses "Not harmful at all" and "Not harmful, if taken as prescribed" are combined into "Not Harmful"



		Percentage <sup>1</sup>	95% CI <sup>2</sup>		Respondents <sup>3</sup>	Estimated Population Affected <sup>4</sup>
Received HCW Education	Harmful	59.9	53.2	66.3	255	16,274
	Not Harmful	40.1	33.7	46.8	255	10,895
No HCW Education	Harmful	64.1	57.1	70.5	242	14,998
	Not Harmful	35.9	29.5	42.9	242	8,416

<sup>1</sup>Percentage = Weighted percentage

<sup>2</sup>CI = Confidence interval lower/upper bounds

<sup>3</sup>Respondents = The total number who responded to the survey question

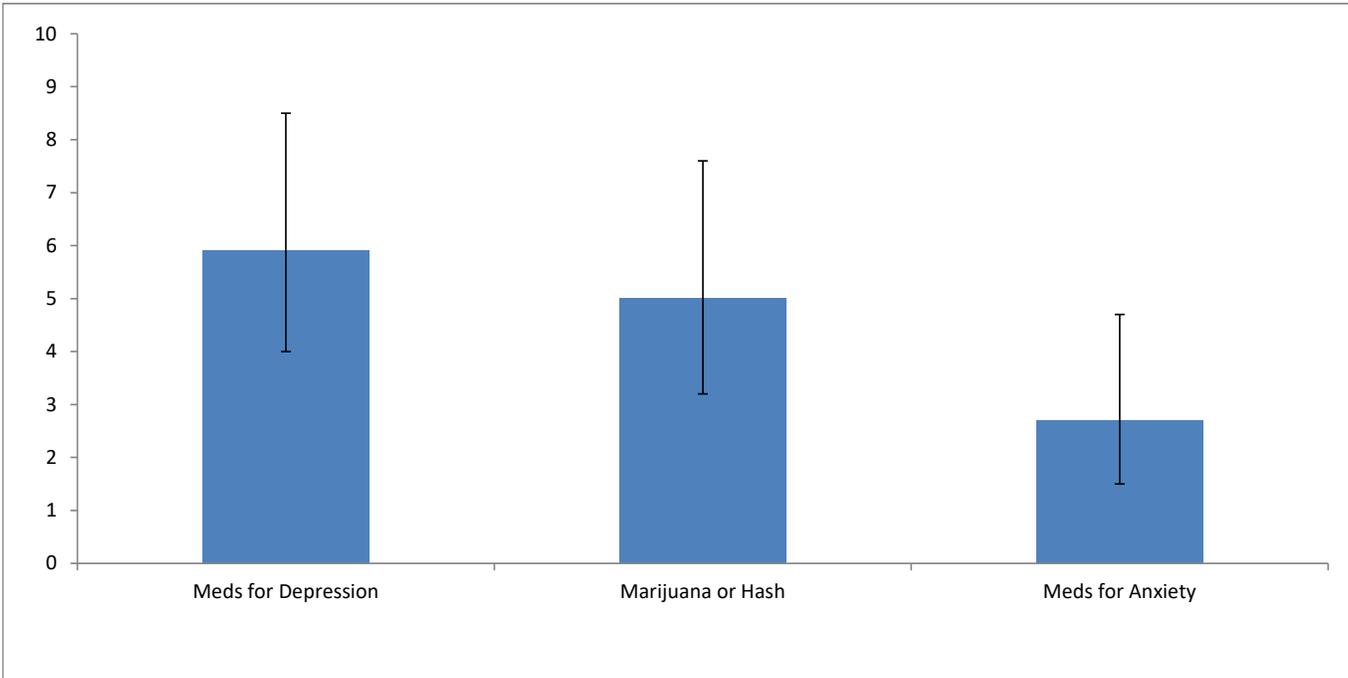
<sup>4</sup>Estimated Population Affected = Estimated number of Illinois mothers/infants with characteristic or condition

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Medication or Drug Use

Percentage (%) of recent mothers in Illinois who reported using medications or drugs for any reason during pregnancy

Survey Question O13: During your most recent pregnancy, did you take or use any of the following medications or drugs for any reason? Response: Yes



	Percentage <sup>1</sup>	95% CI <sup>2</sup>		Respondents <sup>3</sup>	Estimated Population Affected <sup>4</sup>
Meds for Depression	5.9	4.0	8.5	515	3,058
Marijuana or Hash	5.0	3.2	7.6	515	2,593
Meds for Anxiety	2.7	1.5	4.7	515	1,402

<sup>1</sup>Percentage = Weighted percentage

<sup>2</sup>CI = Confidence interval lower/upper bounds

<sup>3</sup>Respondents = The total number who responded to the survey question

<sup>4</sup>Estimated Population Affected = Estimated number of Illinois mothers/infants with characteristic or condition

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Medication for depression (like Prozac®, Zoloft®, Lexapro®, Paxil®, or Celexa®)

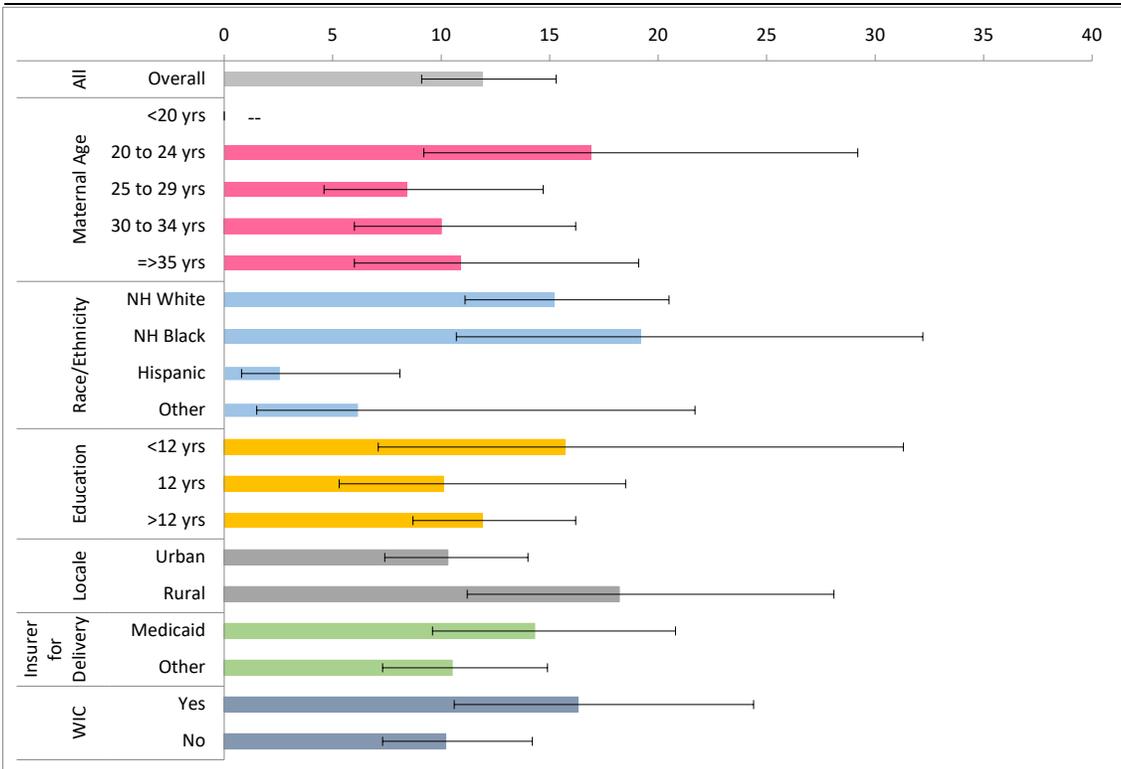
Medication for anxiety (like Valium®, Xanax®, Ativan®, Klonopin®, 'benzos')

Not reported due to small cell size: Methadone, Cannabidiol (CBD) products, Adderall®/Ritalin®/other stimulant, Synthetic Marijuana (K2), Hallucinogens, Naloxone, Heroin, Amphetamines, Cocaine, Tranquilizers, Huffing

**During Pregnancy** **Table 11** **2019 Phase 8 Illinois PRAMS Data**  
**Medication or Drug Use**

**Percentage (%) of recent mothers in Illinois who reported using any medications or drugs for any reason during pregnancy**

**Survey Question O13:** During your most recent pregnancy, did you take or use any of the following medications or drugs for any reason?  
 Response: Yes to using one or more of the drugs listed



		Percentage <sup>1</sup>	95% CI <sup>2</sup>	Respondents <sup>3</sup>	Estimated Population Affected <sup>4</sup>
<b>All</b>	Overall	11.9	9.1 15.3	513	6,170
<b>Maternal Age</b>	<20 yrs	--	-- --	--	--
	20 to 24 yrs	16.9	9.2 29.2	73	1,330
	25 to 29 yrs	8.4	4.6 14.7	139	1165.5
	30 to 34 yrs	10.0	6.0 16.2	161	1,628
	=>35 yrs	10.9	6.0 19.1	117	1,220
<b>Race/Ethnicity</b>	NH White	15.2	11.1 20.5	268	4,250
	NH Black	19.2	10.7 32.2	80	1331.1
	Hispanic	2.6	0.8 8.1	113	323
	Other	6.2	1.5 21.7	49	266.2
<b>Education</b>	<12 yrs	15.7	7.1 31.3	48	826.1
	12 yrs	10.1	5.3 18.5	110	1,219
	>12 yrs	11.9	8.7 16.2	352	4,125
<b>Locale</b>	Urban	10.3	7.4 14.0	415	4,277
	Rural	18.2	11.2 28.1	98	1,892
<b>Birth Weight</b>	Low	12.9	8.4 19.5	139	509
	Normal	11.8	8.8 15.5	374	5,660
<b>Insurer for Delivery</b>	Medicaid	14.3	9.6 20.8	194	2,902
	Other	10.5	7.3 14.9	313	3,268
<b>WIC</b>	Yes	16.3	10.6 24.4	137	2,452
	No	10.2	7.3 14.2	369	3,717

<sup>1</sup>Percentage = Weighted percentage

<sup>2</sup>CI = Confidence interval lower/upper bounds

-- Indicates denominator <30 or numerator <6

<sup>3</sup>Respondents = The total number who responded to the survey question

<sup>4</sup>Estimated Population Affected = Estimated number of Illinois mothers/infants with characteristic or condition

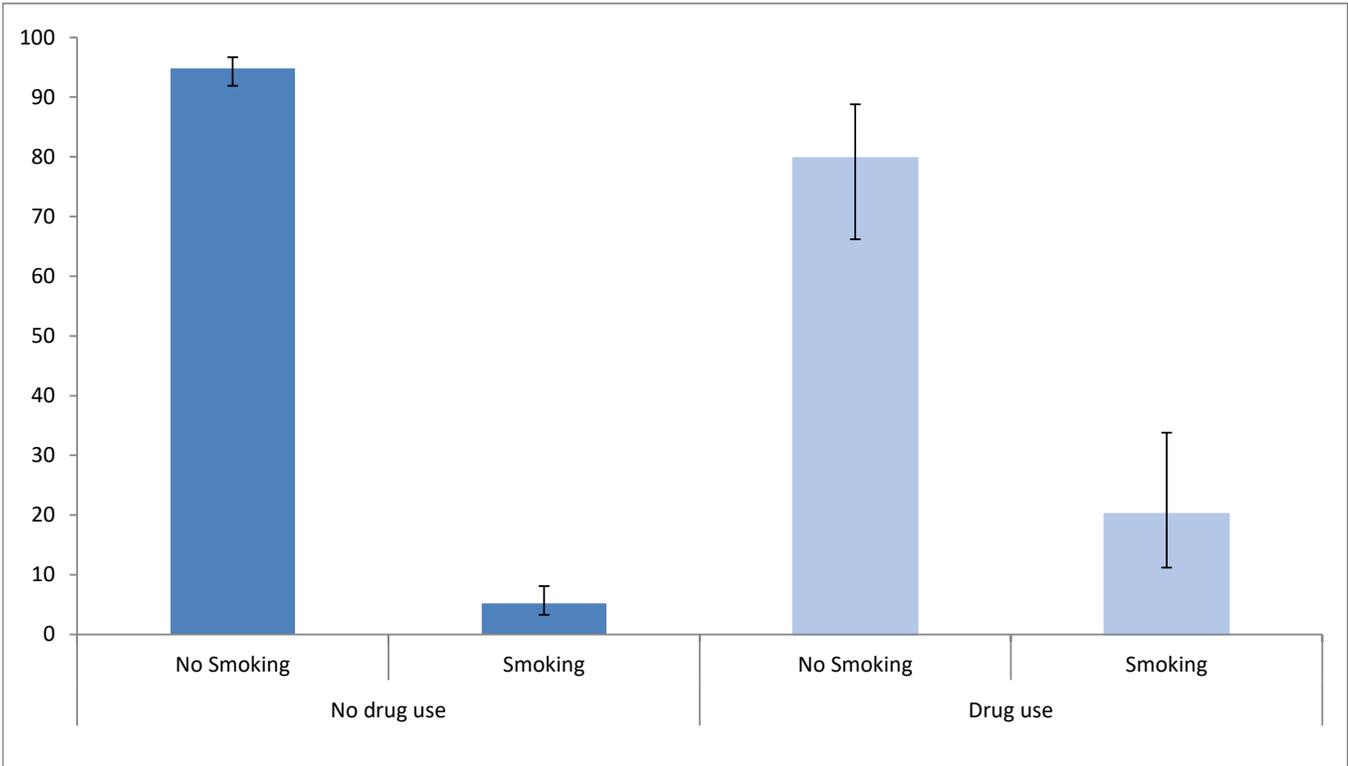
Data collection period April - August 2019

Drugs listed: Medication for depression, medication for anxiety, Methadone, Naloxone, Cannabidiol, Adderall, Marijuana, synthetic marijuana, Heroin, Amphetamines, Cocaine, Tranquilizers, Hallucinogens, Sniffing gasoline/huffing

Medication/Drug Use and Smoking

Percentage (%) of recent mothers in Illinois reporting using medications or recreational drugs and smoking during pregnancy

Survey Question O13: During your most recent pregnancy, did you take or use any of the following medications or drugs for any reason? Response: Yes to using one or more of the drugs listed



		Percentage <sup>1</sup>	95% CI <sup>2</sup>		Respondents <sup>3</sup>	Estimated Population Affected <sup>4</sup>
No drug use	No Smoking	94.8	91.9	96.7	421	43,110
	Smoking	5.2	3.3	8.1	25	2,383
Drug use	No Smoking	79.8	66.2	88.8	48	4,922
	Smoking	20.2	11.2	33.8	13	1,248

<sup>1</sup>Percentage = Weighted percentage

<sup>2</sup>CI = Confidence interval lower/upper bounds

<sup>3</sup>Respondents = The total number who responded to the survey question

<sup>4</sup>Estimated Population Affected = Estimated number of Illinois mothers/infants with characteristic or condition

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