



Background

Electronic vapor products (EVPs) comprise a diverse group of devices, including electronic cigarettes (ecigarettes). EVP users inhale an aerosol that typically contains nicotine, flavorings, and other additives.¹ Nicotine is a developmental toxicant that adversely affects pregnancy and infant outcomes.² Therefore, EVPs are not safe for mother or baby during pregnancy.^{1,2}

The Pregnancy Risk Assessment Monitoring System (PRAMS) collects site-specific, population-based data on maternal experiences and behaviors before, during, and shortly after pregnancy. Women are sampled for PRAMS between two and six months after having a live birth. PRAMS sites that met or exceeded the response rate threshold for 2018 (55%) are included in overall estimates for this report.

Women⁶ Using Electronic Vapor Products (EVP)* Before and During Pregnancy

		Illinois % (95% Cl) [¶]		31 PRAMS Sites [†] % (95% CI) [¶]
PRAMS Indicator	2016	2017	2018	2018
Any EVP use in the past 2 years	4.6 (3.5-6.0)	6.0 (4.6-7.8)	6.0 (4.7-7.6)	5.9 (5.5-6.3)
Any EVP use in the 3 months before becoming pregnant	2.0 (1.3-2.9)	3.1 (2.2-4.5)	3.5 (2.5-4.8)	3.4 (3.2-3.8)
Any EVP use in the last 3 months of pregnancy	0.3 (0.1-0.9)	1.3 (0.7-2.3)	1.3 (0.8-2.2)	1.1 (0.9-1.3)
Daily [‡] EVP use in the last 3 months of pregnancy	0.2 (0.1-0.7)	0.5 (0.2-1.2)	0.7 (0.3-1.4)	0.5 (0.4-0.7)

[◊] Women with a recent live birth

* Electronic vapor products, defined on the PRAMS survey as: "Electronic cigarettes [e-cigarettes] and other electronic nicotine products (such as, vape pens, e-hookahs, hookah pens, e-cigars, e-pipes) are battery-powered devices that use nicotine liquid rather than tobacco leaves, and produce vapor instead of smoke."

[†] 31 PRAMS sites met the 55% response rate threshold for 2018 and include: Alaska, Colorado, Connecticut, Delaware, Georgia, Illinois, Kansas, Kentucky, Louisiana, Maine, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Jersey, New Mexico, New York City, North Dakota, Pennsylvania, Puerto Rico, Rhode Island, South Dakota, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming.
[¶] Weighted percent (95% Confidence Interval)

[‡] Daily EVP use is defined as respondents who reported EVP use of 'once a day' or 'more than once a day'.

Use of EVPs and Combustible Cigarettes Alone or in Combination During^{*} Pregnancy, Among Women⁽⁾ Who Used EVPS in the Past 2 Years

		lllinois % (95% Cl) [¶]		31 PRAMS Sites [†] % (95% Cl) [¶]
PRAMS Indicator	2016	2017	2018	2018
EVP use only	2.4 (0.5-12.0)	3.9 (1.0-14.6)	5.6 (1.8-16.1)	6.8 (5.3-8.8)
Cigarette use only	27.9 (17.2-41.9)	30.1 (19.4-43.5)	23.8 (14.7-36.2)	21.4 (18.7-24.4)
EVP and cigarette use	5.4 (1.7-16.2)	17.4 (9.2-30.5)	16.0 (8.6-27.7)	11.9 (9.7-14.5)

^{*}Data reported are during the last three months of pregnancy

 $^{\circ\,\dagger\,\P}\,$ See footnotes in first table

Women⁽⁾ Reporting EVP Use Before and During Pregnancy, by Characteristics – Illinois, 2018

Characteristic	Any EVP use in 3 months before pregnancy % (95% CI) [¶]	Any EVP use in last 3 months of pregnancy % (95% CI) [¶]	Daily [‡] EVP use in last 3 months of pregnancy % (95% Cl) [¶]
Maternal Race/Ethnicity			
Non-Hispanic White	4.2 (2.9-6.2)	1.5 (0.8-2.9)	0.7 (0.3-1.9)
Non-Hispanic Black	1.7 (0.7-4.3)	0.4 (0.1-2.8)	0.4 (0.1-2.8)
Hispanic	3.8 (1.8-7.7)	2.1 (0.8-5.5)	1.0 (0.2-3.9)
Non-Hispanic Asian or Pacific Islander	0 ` ´	0 ` ´	0 ` ´
Non-Hispanic American Indian or Alaska Native	#	#	#
Non-Hispanic Other	#	#	#
Maternal Age (years)			
≤19	5.1 (1.3-18.2)^	2.9 (0.4-17.8)^	0^
20-24	7.1 (4.1-12.2)	0.7 (0.1-5.0)	0
25-34	3.0 (1.9-4.7)	1.7 (0.9-3.1)	1.0 (0.5-2.2)
≥35	1.9 (0.8-4.4)	0.3 (0.0-2.3)	0.3 (0.0-2.3)
Highest level of education (years)			
<12	4.1 (1.8-9.4)	1.1 (0.2-7.1)	0
12	5.5 (3.2-9.4)	1.9 (0.8-4.9)	1.0 (0.3-3.4)
>12	2.7 (1.8-4.2)	1.1 (0.6-2.3)	0.7 (0.3-1.7)
Prenatal WIC Recipient			
No	2.8 (1.8-4.4)	1.3 (0.7-2.5)	0.8 (0.4-1.8)
Yes	5.2 (3.3-8.2)	1.3 (0.5-3.4)	0.2 (0.0-1.7)

Abbreviation: WIC = The Special Supplemental Nutrition Program for Women, Infants, and Children

[•][‡]¶See footnotes in first table

#< 30 respondents, not reported

^ < 60 respondents, may not be reliable

Summary

In Illinois, EVP use before and during pregnancy increased from 2016 to 2018.

In Illinois during 2018 among women who used EVPs in the past two years, 23.8% used cigarettes only during the last three months of pregnancy and 16.0% used both cigarettes and EVPs.

Resources

E-Cigarettes and Pregnancy: <u>https://www.cdc.gov/reproductivehealth/maternalinfanthealth/substance-abuse/e-cigarettes-pregnancy.htm</u>

ACOG Smoking Cessation Resources: <u>https://www.acog.org/topics/smoking-cessation</u> ACOG Tobacco and Nicotine Cessation Toolkit: <u>https://www.acog.org/-</u> /media/project/acog/acogorg/files/pdfs/publications/smoking-cessation-toolkit-2016.pdf

References

- 1. US Department of Health and Human Services. E-cigarette use among youth and young adults: a report of the Surgeon General. Atlanta, GA: US Department of Health and Human Services, CDC; 2016.
- 2. American College of Obstetricians and Gynecologists.Tobacco and nicotine cessation during pregnancy. ACOG Committee Opinion No. 807. Obstet Gynecol 2020;135:e221–9.

To learn more about PRAMS methods and to see data availability by year visit:

http://dph.illinois.gov/data-statistics/prams

THE BEST SOURCE OF DATA ON MOTHERS AND BABIES