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Key findings

Data from the National Survey of Family Growth

- A decreasing trend in the receipt of pelvic examinations in the past 12 months among women aged 15–44 was observed from 1988 through 2017.
- A decreasing trend in the receipt of pelvic examinations among women aged 15–20 and 21–29 was observed from 1988 through 2017.
- During 2015–2017, receipt of a pelvic examination in the last 12 months was highest among non-Hispanic black women, followed by non-Hispanic white women and Hispanic women.
- During 2015–2017, receipt of a pelvic examination in the past 12 months increased with increasing levels of education.

Pelvic examination has been commonly performed as part of a physical examination for women in the United States. However, the value of routine pelvic examinations has been questioned recently (1,2). In 2012, the American College of Obstetricians and Gynecologists (ACOG) recommended annual pelvic examinations for women aged 21 and over as part of the well-woman visit (3). In 2018, ACOG advised that pelvic examinations be performed when indicated by medical history or symptoms (4). Using National Survey of Family Growth (NSFG) data through 2017 for women aged 15–44, this report describes trends overall and by age since 1988 in the receipt of pelvic examinations in the past year, and differences by Hispanic origin and race, education, poverty status, and health insurance status for 2015–2017.

Receipt of pelvic examinations in the past 12 months decreased over time among women aged 15–44.
A decreasing trend in the percentage of women aged 15–44 who received a pelvic examination in the past 12 months was observed from 1988 through 2017 (Figure 1). In 1988, a higher percentage of women received a pelvic examination in the past 12 months (64.9%) than at any of the other time points (52.5%–61.3%).


The percentage of women aged 21–29 who received a pelvic examination in the past 12 months decreased over time: 74.6% in 1988; 69.1% in 1995; 63.8%–62.2% in the periods 2002, 2006–2010, and 2011–2015; and 56.5% during 2015–2017.

The percentage of women aged 30–44 who reported receiving a pelvic examination in the past 12 months showed no statistically significant change over time.

Receipt of pelvic examinations in the past 12 months varied by Hispanic origin and race during 2015–2017.

Receipt of a pelvic examination in the past 12 months was highest among non-Hispanic black women and lowest among Hispanic women (Figure 2). Specifically, 59.5% of

NOTES: Significant differences were seen between all Hispanic-origin and race groups (p < 0.05). Access data table for Figure 2 at: https://www.cdc.gov/nchs/data/databriefs/db339_tables-508.pdf#2.
non-Hispanic black women, 53.8% of non-Hispanic white women, and 45.4% of Hispanic women received a pelvic examination in the past 12 months.

Receipt of pelvic examinations in the past 12 months varied by socioeconomic status.

- During 2015–2017, receipt of a pelvic examination in the past 12 months among women aged 22–44 increased with increasing education: 51.5% of women with less than a high school diploma, 55.0% of those with a high school diploma, 60.7% of those with some college, and 68.7% of those with a bachelor’s degree (Figure 3).

- Women with household incomes 300% or above the federal poverty level were more likely to have received a pelvic examination in the past 12 months (60.0%) compared with women with household incomes below 150% of the federal poverty level (47.5%) and women with household incomes 150%–299% of the federal poverty level (49.5%).

Figure 3. Receipt of pelvic examinations in the past year, by education and poverty level: United States, 2015–2017

1Significantly different than other poverty level categories (p < 0.05).
2Significant linear trend by education level (p < 0.05).
NOTE: Access data table for Figure 3 at: https://www.cdc.gov/nchs/data/databriefs/db339_tables-508.pdf#3.
Receipt of pelvic examinations in the past 12 months varied by current health insurance status.

- During 2015–2017, women without health insurance coverage were less likely to have received a pelvic examination in the past 12 months (38.9%) compared with women who had private insurance (56.2%), Medicaid (49.1%), or Medicare, military, or other government insurance (58.1%) (Figure 4).

- Women with private insurance were more likely to have received a pelvic examination in the past 12 months (56.2%) than those with Medicaid as their health insurance (49.1%).

Figure 4. Receipt of pelvic examinations in the past year, by current health insurance status: United States, 2015–2017

1Significantly different from those with Medicaid (p < 0.05).
2Significantly different from those with private, Medicaid, and Medicare, military, or other government insurance (p < 0.05).

NOTE: Access data table for Figure 4 at: https://www.cdc.gov/nchs/data/databriefs/db339_tables-508.pdf#4.

Summary

This report describes trends in and characteristics of receipt of pelvic examinations in the past 12 months among women aged 15–44 in the United States. Women aged 15–44 in 1988 were more likely to have received a pelvic examination compared with women at any later NSFG survey period. The decrease in the receipt of pelvic examinations among women aged 15–44 occurred primarily among women aged 15–29. From 1988 through 2017, the percentage of women receiving pelvic examinations in the past 12 months decreased by 65% for women aged 15–20, 57% for women aged 21–29, and 6% for women aged 30–44. Women of lower socioeconomic status (lower levels of education and household income) were less likely than those of higher socioeconomic status to have received a pelvic examination in the past 12 months. Women without health insurance were less likely to have received a pelvic examination in the past 12 months compared with those with private; Medicaid; or Medicare, military, or other government insurance. These results could provide a benchmark for estimates of the prevalence of pelvic examinations before the 2018 ACOG-updated guidelines.

Definitions

Age: Respondent’s age at the time of the interview. The recode variable AGER was used.

Education: Educational attainment at the time of the interview, indicating the highest degree or grade finished. Results are presented only for women aged 22 and over because many younger women have not completed their education. The recode variable HIEDUC was used.

Health insurance: A measure of health insurance status at the time of the interview. For this report, the categories are combined into four mutually exclusive categories: private health insurance only; Medicaid; Medicare, military, or other government; and uninsured (includes no health insurance or having a single-service plan). The recode variable CURR_INS was used.

Hispanic origin and race: This report used the NSFG recode variable HISPRACE2, which conforms with the Office of Management and Budget’s 1997 guidelines for the collection and presentation of race and Hispanic-origin data in federal statistics systems, allowing respondents to report more than one racial or ethnic origin (5). The categories shown separately in this report are Hispanic; non-Hispanic white, single race; and non-Hispanic black, single race. Non-Hispanic respondents of other races or those reporting multiple races are included in the overall estimates but are not shown separately in figures due to the diversity of this group. The shorter phrase “non-Hispanic white women” refers to non-Hispanic white, single-race women, and “non-Hispanic black women” refers to non-Hispanic black, single-race women.

Pelvic examination: NSFG asked respondents, “(In the past 12 months have you received) a pelvic exam—where a doctor or nurse puts one hand in the vagina and the other on the abdomen?” The description of the examination was added in 2011; previously, the question asked, “In the past 12 months have you received a pelvic exam?” The variable was PELVIC12.

Poverty level: A measure of the household’s income expressed as a percentage of the federal poverty-level threshold for a household of that size. The recode variable POVERTY was used.
Data source and methods

This report is based primarily on interview data from the 10,094 women aged 15–44 in the 2015–2017 NSFG public-use data files. NSFG is a nationally representative survey of women and men aged 15–49 in the U.S. household population that gathers data on fertility, cohabitation, marriage, divorce, infertility, use of contraception, and general and reproductive health. More information is available on the NSFG website: https://www.cdc.gov/nchs/nsfg/index.htm.

The data presented in this report are bivariate associations that may be explained by other factors. For example, age differences between two groups could explain differences in the outcomes. Statistics for this report were produced using the SURVEY procedures in SAS software version 9.4 and Proc Descript in SAS-callable SUDAAN. Percentages were compared using two-tailed t tests at the 0.05 level. No adjustments were made for multiple comparisons. A weighted least-squares regression method was used to test the significance of trends that involved more than two time points or more than two age, education, or poverty groups. When this method was used, terms that refer to percentages that “increased” or “decreased” indicate that there was a significant difference over time or across groups. This report follows National Center for Health Statistics data presentation standards for proportions (6).

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References


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