



STATISTICAL BRIEF #173

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Use of the Pap Test as a Cancer Screening Tool among Women Age 18– 64, U.S. Noninstitutionalized Population, 2005

Anita Soni, PhD

Introduction

The main purpose of the Pap test (also called the Pap smear test) is to detect cancer or abnormal cells that may lead to cancer. It can also find non-cancerous conditions, such as infection and inflammation. Cervical cancer can usually be prevented if women are screened regularly with a Pap test. The U.S. Preventive Services Task Force (USPSTF) found evidence that cervical cytology (Pap smear) screening reduces the incidence of and mortality from cervical cancer. The USPSTF suggests Pap smear screening at least every three years for women age 18–64.

This Statistical Brief provides estimates of the extent to which women age 18–64 did not receive Pap smear screening for cervical cancer detection in 2005. The estimates presented are derived from data collected in the MEPS Household Component questionnaire. All differences discussed in the text are statistically significant at 0.05 or better.

Findings

Evidence has been found that screening with cervical cytology (Pap smear) reduces the incidence of and mortality from cervical cancer. The Pap test every three years has been recommended for all women age 18–64. In 2005, approximately 13 million women age 18–64 reported not having received the Pap test within the last three years.

Age

Women age 30–39 were the least likely not to have received a Pap test in the last three years as compared with women age 40–49 or 50–64 (9.3 percent versus 12.1 percent and 17.2 percent, respectively) (figure 1).

Race/ethnicity

Asian non-Hispanic women were more likely not to have received a Pap test within the last three years (21.5 percent) as compared with white non-Hispanic (13.5 percent), black non-Hispanic (9.9 percent), or Hispanic (15.6 percent) women (figure 2).

Highlights

- Almost 14 percent of women age 18–64 reported not having received a Pap smear test within the last three years.
- Asian non-Hispanic women were least likely to have received the Pap test within the last three years as compared with Hispanic, white non-Hispanic, or black non-Hispanic women.
- One-fourth of women who were uninsured failed to receive the Pap test within the last three years.
- Women who were less educated were more likely not to have received the Pap test within the last three years.
- Single (never married) women were nearly twice as likely not to have received the Pap test within the last three years as compared with those who were married.

Insurance status

Women age 18–64 who were uninsured were more likely to not have received a Pap test within the last three years (25.4 percent) as compared with those who were covered by private insurance (11.4 percent) or public insurance (14.9 percent) (figure 3).

Educational level

Women age 18–64 who were less educated were more likely not to have received a Pap test within the last three years. A higher percentage of women with less than high school education reported not having received a Pap test within the last three years as compared with those who had completed high school or those who had some college education (23.1 percent versus 15.5 percent and 9.9 percent, respectively) (figure 4).

Marital status

Women age 18–64 who were single (never married) were nearly twice as likely not to have received a Pap test within the last three years as those who were married (19.0 percent versus 10.3 percent, respectively) (figure 5).

Data Source

The estimates in this Statistical Brief were derived from the MEPS 2005 full-year population characteristics data file (HC-090).

Definitions

The question related to receiving a Pap test was asked in the Preventive Care section of MEPS-HC.

Pap test

The Pap test (sometimes called a Pap smear) is a way to examine cells collected from the cervix. The main purpose of the Pap test is to detect cancer or abnormal cells that may lead to cancer. It can also find non-cancerous conditions, such as infection and inflammation.

Racial and ethnic classifications

Classification by race/ethnicity is based on information reported for each family member. Respondents were asked if each family member was Hispanic or Latino. Respondents were also asked which race or races best describes each family member. Race categories include white, black/African American, American Indian or Alaska Native, Asian, Native Hawaiian or other Pacific Islander, and other. Based on these questions, sample persons were classified into the following race/ethnicity categories: Hispanic, white non-Hispanic single race, black non-Hispanic single race, Asian non-Hispanic single race, and other (Hawaiian/pacific Islander non-Hispanic, American Indian/Alaska Native non-Hispanic, and multiple races non-Hispanic).

Marital status

The category "No Longer Married" includes the women who are widowed, divorced or separated.

Educational level

Educational level indicates a person's number of years of education at the time of the first MEPS interview:

- Less than high school = Less than 12 years of education
- High school graduate = Completed 12 years of education
- At least some college = More than 12 years of education

Within the last three years

This refers to the three years before the MEPS interview in which this question was asked.

Health insurance status

Individuals under age 65 were classified in the following three insurance categories based on household responses to health insurance status questions:

 Any private health insurance: Individuals who, at any time during the year, had insurance that provides coverage for hospital and physician care (other than Medicare, Medicaid, or other public

- hospital/physician coverage) were classified as having private insurance. Coverage by TRICARE (Armed Forces—related coverage) was also included as private health insurance. Insurance that provides coverage for a single service only, such as dental or vision coverage, was not included.
- Public coverage only: Individuals were considered to have public coverage only if they met both of the following criteria: 1) they were not covered by private insurance at any time during the year, and 2) they were covered by one of the following public programs at any point during the year: Medicare, Medicaid, or other public hospital/physician coverage.
- Uninsured: The uninsured were defined as people not covered by private hospital/physician insurance, Medicare, TRICARE, Medicaid, or other public hospital/physician programs at any time during the entire year or period of eligibility for the survey.

About MEPS-HC

MEPS-HC is a nationally representative longitudinal survey that collects detailed information on health care utilization and expenditures, health insurance, and health status, as well as a wide variety of social, demographic, and economic characteristics for the civilian noninstitutionalized population. It is cosponsored by the Agency for Healthcare Research and Quality and the National Center for Health Statistics.

For more information about MEPS, call the MEPS information coordinator at AHRQ (301-427-1656) or visit the MEPS Web site at http://www.meps.ahrq.gov/.

References

For a detailed description of the MEPS survey design, sample design, and methods used to minimize sources of nonsampling error, see the following publications:

Cohen, J. Design and Methods of the Medical Expenditure Panel Survey Household Component. MEPS Methodology Report No. 1. AHCPR Pub. No. 97-0026. Rockville, Md.: Agency for Health Care Policy and Research, 1997.

Cohen, S. Sample Design of the 1996 Medical Expenditure Panel Survey Household Component. MEPS Methodology Report No. 2. AHCPR Pub. No. 97-0027. Rockville, Md.: Agency for Health Care Policy and Research, 1997.

Cohen, S. Design Strategies and Innovations in the Medical Expenditure Panel Survey. *Medical Care*, July 2003: 41(7) Supplement: III-5–III-12.

For information on the Pap test, see the following:

Pap test facts: http://www.4woman.gov/fag/pap.htm#pap04

Pap tests: What they are and what the results mean. http://familydoctor.org/online/famdocen/home/women/reproductive/gynecologic/138.html

Recommendations and Rationale: Screening for Cervical Cancer. U.S. Preventive Services Task Force (USPSTF). http://www.ahrq.gov/clinic/uspstf/uspscerv.htm

The Pap test: Questions and Answers. http://www.cancer.gov/cancertopics/factsheet/Detection/Pap-test

Suggested Citation

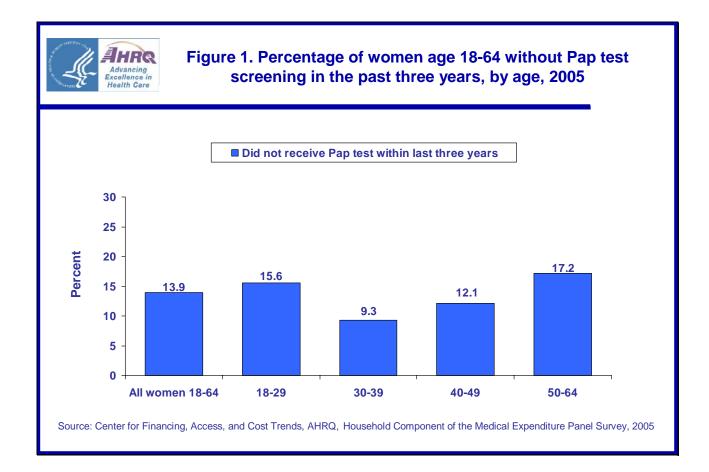
Soni, A. Use of the Pap Test as a Cancer Screening Tool among Women Age 18–64, U.S. Noninstitutionalized Population, 2005. Statistical Brief #173. June 2007. Agency for Healthcare Research and Quality, Rockville, Md. http://www.meps.ahrq.gov/ mepsweb/data_files/publications/st173/ stat173.pdf

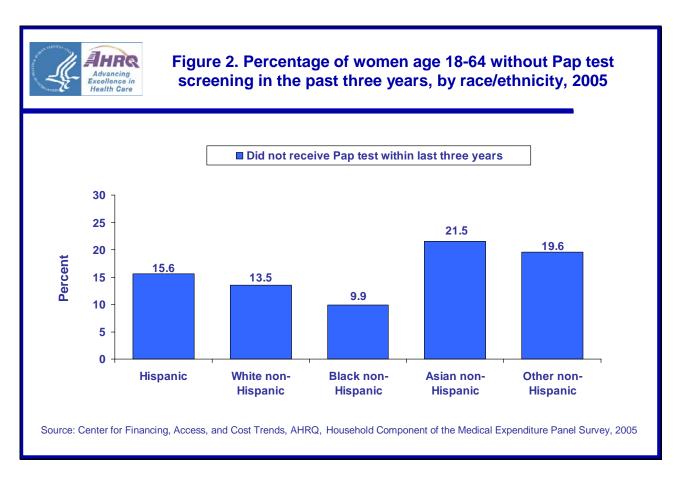
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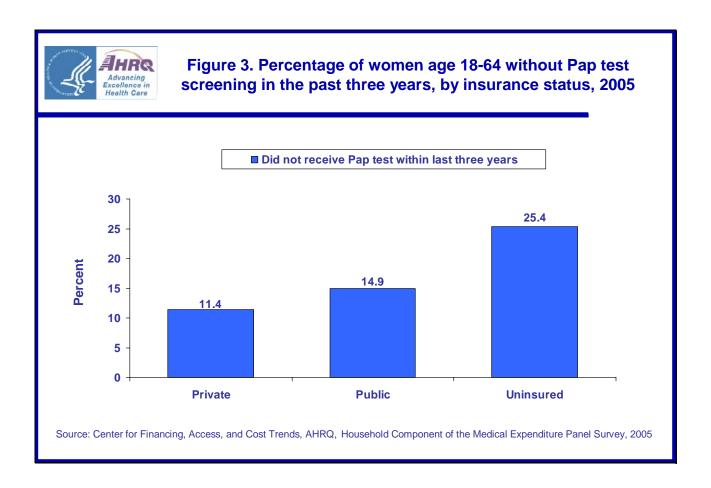
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tools and to share suggestions on how MEPS products might be enhanced to further meet your needs. Please e-mail us at mepspd@ahrq.gov or send a letter to the address below:

Steven B. Cohen, PhD, Director Center for Financing, Access, and Cost Trends Agency for Healthcare Research and Quality 540 Gaither Road Rockville, MD 20850







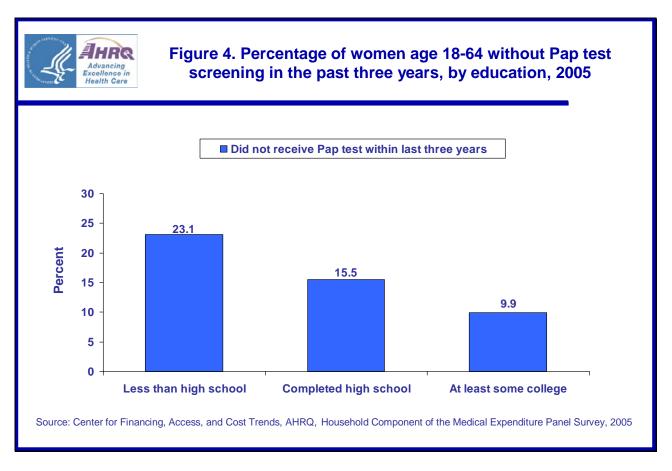
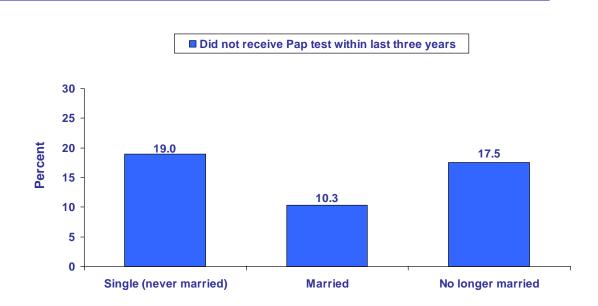




Figure 5. Percentage of women age 18-64 without Pap test screening in the past three years, by marital status, 2005



Source: Center for Financing, Access, and Cost Trends, AHRQ, Household Component of the Medical Expenditure Panel Survey, 2005