## LEGISLATIVE RESEARCH UNIT

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#### BREAST AND CERVICAL CANCER SCREENING COST PROJECTIONS

asked for 10-year projections of the costs to screen all uninsured, low-income women in Illinois for breast and cervical cancer. After receiving our September 8 letter responding to his request, asked us to do the following: (1) update its Table 1 to reflect the September 1 increase in the Illinois Breast and Cervical Cancer Program (IBCCP) income limits; (2) try to find data on low-income, uninsured women aged 40-64; and (3) try to find data on numbers of women being screened by IBCCP and Stand Against Cancer. This letter supersedes our September 8 letter.

several described populations, including all uninsured, low-income women who are over age 40; are under age 40 but symptomatic or have family histories of breast cancer; and aged 35 to 40 and African-American. We were unable to find data in those specific categories. A spokeswoman for the Illinois Department of Public Health also knew of no source for such specific data. But we did find how many uninsured, low-income Illinois women are between ages 18 and 64; obtained data on the costs of these kinds of screening under the Medicare and Medicaid programs; and made 10-year cost projections based on those numbers. We report our findings below.

#### Women Eligible

The Kaiser Family Foundation, a nonprofit health care research organization, estimated in 2004 that 429,692 Illinois women aged 18 to 64 lacked health insurance and had incomes below 200% of the federal poverty guidelines (FPG). The age group chosen is 18 to 64 because we presume that breast and cervical cancer preventive screenings are not usually necessary before age 18, and we assume that women 65 or older are eligible for Medicare.



Specifically, the National Women's Law Center estimates that 175,465 women in Illinois aged 45-64 lack health insurance.<sup>4</sup> The number of low-income women in that age range is not available. Although Mr. Tenner wanted data on low-income, uninsured women aged 40-64, the available sources have data only for the larger group consisting of low-income, uninsured women aged 18-64.

Table 1 shows the annual incomes that represent 200% of the 2006 FPG, 5 and the current income limits for the IBCCP.6

Table 1: Comparison of 2006 Federal Poverty Guidelines and IBCCP Income Limits

Household size	200% of FPG	IBCCP income limit
1	\$19,600	\$24,500
2	26,400	33,000
3	33,200	41,500
4	40,000	50,000
5	46,800	58,500
6	53,600	67,000
7	60,400	75,500
8	67,200	84,000
	(Add \$6,800 per additional person)	(Add \$8,500 per additional person)

The income limits for IBCCP as of September 1, 2006 are 250% of FPG. The cost projection estimates in this letter use data based on 200% of the FPG because those were the closest data we could find to the IBCCP income limits.

In state fiscal year 2005, the IBCCP provided 20,896 breast and/or cervical cancer screenings, serving 17,736 women. In state fiscal year 2006 it provided 19,773 screenings for 17,303 women. Stand Against Cancer (SAC) provided over 17,000 breast and/or cervical cancer screenings in state fiscal year 2005; the number of women screened has not been reported. (The number of screenings exceeds the number of women screened because some women may receive both types of screenings in one fiscal year.)

#### Population Trends

Table 2 shows changes in the numbers of uninsured, low-income women from 2000-2001 to 2003-2004 (the numbers were reported as two-year averages of pooled data). We used these data to calculate the compound annual rate of increase in this number over the three-year interval shown.

Table 2: Estimates of Uninsured, Low-Income Illinois
Women Aged 18-64

Year	Low-income women	Uninsured, low-income women	<pre>% change in uninsured, low- income women</pre>
2000-2001 2001-2002 2002-2003 2003-2004	1,124,000 1,185,000 1,251,000 1,207,000	415,880 402,900 419,085 429,692	- -3.1% 4.0 2.5
G		ingresses	1 109

Compound annual rate of increase

1.10%

Source: Henry J. Kaiser Family Foundation, "Health Insurance Coverage of Women Ages 18-64, by State" (March 2006; downloaded from Kaiser Family Foundation Internet site).

#### Screening Costs

Appendix A to this letter shows average costs of breast and cervical cancer screening based on the most recent IBCCP payment rates. Its first section shows the average costs of normal-result cervical or breast screenings, or for both screenings in the same office visit. The second section is for screenings that have abnormal results, and shows average costs for necessary diagnostic procedures after an abnormal screening result.

The reimbursement rates for the IBCCP are based on rates set for Current Procedural Terminology (CPT) Codes by the U.S. Department of Health and Human Services (HHS). HHS sets CPT rates annually for both Medicare and Medicaid services. The IBCCP allows billing based on the Medicare rates set for Cook County, which are the highest Medicare and Medicaid reimbursement rates in Illinois.9

## Cost Projections

We did a 10-year cost projection by calculating how much the cost of each kind of screening (cervical, breast, or combined) with a normal result would be if it rose by 4% (compounded) each year. (We assumed a 4% annual inflation rate because the medical cost component of the Consumer Price Index has recently been rising at nearly that rate. However, no one can accurately predict future inflation rates.) We projected the number of women needing screening by taking the Kaiser Family Foundation survey data for 2004, and increasing it at a compound annual rate of 1.10% (the compound annual rate of increase in the Kaiser data from 2000-2001 to 2003-2004). The results are shown numerically in Appendix B and graphically in Appendix C.

By 2016, the projected cost to screen 489,972 uninsured women aged 18-64 who are below 200% of the FPG is about \$168 million annually. That projection is based on several assumptions:

- (1) all eligible women would participate in the program;
- (2) it would be possible to find medical providers to perform the services needed by all those women at the reimbursement rates set by the Department of Health and Human Services;
- (3) those rates will rise an average of 4% per year; and
- (4) the rate of increase in numbers of uninsured, low-income women will be similar to the compound rate of increase over the three-year interval from 2000-2001 to 2003-2004.

Any (or all) of these assumptions could be in error due to the inability to predict future changes. Thus our results should be considered as extremely tentative.

## Breast Cancer Prevalence by Population Group

In the United States, Caucasian women over age 35 have the highest overall rate of breast cancer; but African American women have the highest rate of breast cancer before age 35 and are more likely to die from breast cancer at every age. In Illinois, annual death rates per 100,000 women are 27.2 for Caucasians and 39.0 for African Americans. In 2005 and 2006, 97% of breast cancer deaths occurred in women who were 40 or older at time of death. 11

We hope this information is helpful.

Sincerely,

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#### Notes

Telephone conversation with Pamela Balmer, Division Chief, Women's Health Services, Illinois Department of Public Health, Sept. 5, 2006.

Kaiser Family Foundation, "Statehealthfacts.org" (downloaded Aug. 23, 2006 from Statehealthfacts.org

Internet site).

3. Kaiser Family Foundation, "Health Insurance Coverage of Women Ages 18-64, by State, 2003-2004" (March 2006; downloaded from Kaiser Family Foundation Internet site).

National Women's Law Center, "Women's Health Report Card 2004: Illinois" (downloaded Sept. 18, 2006 from National

Women's Law Center Internet site).

Department of Health and Human Services, "Annual Update of the HHS Poverty Guidelines," 71 Fed. Register pp. 3848-3849

(Jan. 24, 2006).

6. "Am I eligible to receive a free screening through the Illinois Breast and Cervical Cancer Program?" (downloaded Sept. 19, 2006 from IDPH's Breast-Cervical Cancer Screening Internet site).

7. E-mail message from Allen Griffy, Supervisor, Contracts and Data Management Section, Office of Women's Health, Illinois

Department of Public Health, Aug. 25, 2006.

8. Governor's office, "Gov. Blagojevich urges women to register for free breast and cervical cancer screenings and treatment" (news release, Sept. 1, 2006, downloaded from IDPH Internet site).

9. Allen Griffy e-mail message.

10. U.S. Department of Labor, Division of Consumer Prices and Price Indexes, "Medical Consumer Price Index" (Aug. 16, 2006, downloaded from U.S. Bureau of Labor Statistics Index Internet site).

"Breast Cancer Facts & Figures 2005-2006" (downloaded Aug.

31, 2006 from American Cancer Society Internet site).

Appendix A:	Average Costs for Breast and Cervical Screenings by CPT
	(Current Procedural Terminology) Code (effective July 1, 2006)

(Current Procedural Terminology) Code (circeit)	(C July 1, 2000)
Screenings with normal results	
CERVICAL SCREENING ONLY	
CPT Code 99202 (Office visit, new patient, pelvic exam only) CPT Code 88142 (Pap test, liquid-based)	\$71.43 <u>28.31</u>
Total	\$99.74
BREAST SCREENING ONLY	
CPT Code 99201 (Office visit, new patient, breast exam only) CPT Code 76092 (screening mammogram)	\$ 40.51 <u>96.57</u>
Total	\$137.08
COMBINED BREAST AND CERVICAL SCREENING	
CPT Code 99203 (Office visit, new patient, breast and pelvic exam) CPT Code 76092 (Screening mammogram) CPT Code 88142 (Pap test, liquid-based)	\$106.64 96.57 <u>28.31</u>
Total	\$231.52
Screenings with abnormal results	
CERVICAL SCREENING, ABNORMAL RESULT	
CPT Code 87621 (HPV testing) CPT Code 57454 (Colposcopy with biopsy) CPT Code 88305 (Surgical pathology breast or colpo biopsy), 1st spec. CPT Code 88305 (Surgical pathology breast or colpo biopsy), 2nd spec. CPT Code 88305 (Surgical pathology breast or colpo biopsy), 3rd spec. CPT Code 99242 (30-minute consultation visit) Further diagnostic testing (average of CPT code 57522 (\$293.99) and LEEP and CPT code 57520 (\$359.34), conization)	\$ 49.04 180.30 115.59 115.59 115.59 101.56
Total	\$1,004.33
BREAST SCREENING, ABNORMAL CLINICAL BREAST EXAM RESULT	
CPT Code 76645 (Ultrasound, bilateral or unilateral) Consult visit (average of CPT codes 99241,99242,99243)	\$ 79.12 <u>97.53</u>
Total	\$176.65

# Appendix A: Average Costs for Breast and Cervical Screenings by CPT (Current Procedural Terminology) Code (effective July 1, 2006) (cont'd)

## BREAST SCREENING, ABNORMAL MAMMOGRAM RESULT

CPT Code 76090 (Diagnostic mammography, unilateral)	\$	88.18
CPT Code 76645 (Ultrasound, bilateral or unilateral)		79.12
Consult visit (average of CPT codes 99241, 99242, and 99243)		97.53
Breast biopsy (average of CPT codes 19000, 19101, 19102, 19103, 19120,		
19125, and 19126)		359.31
CPT Code 19290 (Preoperative placement of needle localization wire)		76.33
CPT Code 19295 (Image-guided placement of percutaneous metallic		
localization clip during breast biopsy)		115.92
CPT Code 88305 (Surgical pathology breast or colpo biopsy), 1st spec.		115.59
CPT Code 88305 (Surgical pathology breast or colpo biopsy), 2nd spec.		<u>115.59</u>
Total	\$1	,047.57

Source: E-mail message from Allen Griffy, Supervisor for Contracts and Data Management Section, Office of Women's Health, Illinois Department of Public Health, Aug. 25, 2006.

Appendix B: Projected Costs of Breast and/or Cervical Cancer Screening Program to 2016

Cervical cancer Combined screening, screening, total cost total cost (000 omitted)	•	\$43,806 \$101,683	46,059 106,914	48,428 112,413	50,919 118,196	53,539 124,276	56,293 130,668	59,188 137,390	62,233 144,457	65,434 151,888	68,800 159,701	72.339 167.916
Breast cancer Cervis screening, scr total cost total (000 omitted)		\$60,205	63,302	66,558	69,982	73,582	77,367	81,347	85,531	89,931	94,557	99,421
Uninsured, low-income women	434,419	439,197	444,028	448,913	453,851	458,843	463,890	468,993	474,152	479,368	484,641	489.972
Both tests, per person (combined price)	·	\$231.52	240.78	250.41	260.43	270.85	281.68	292.95	304.66	316.85	329.53	342.71
Cervical cancer screening, per person	ı	\$99.74	103.73	107.88	112.19	116.68	121.35	126.20	131.25	136.50	141.96	147.64
Breast cancer screening, per person	t	\$137.08	142.56	148.27	154.20	160.36	166.78	173.45	180.39	187.60	195.11	202.91
Year	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016

The cost for both screenings at one time is slightly less than the sum of the costs of individual screenings, because a combined screening requires only one office visit. Note:

Women's Health, Illinois Department of Public Health, Aug. 25, 2006, and population data from "Health Insurance Coverage of Women ages 18-64, by State" (March 2006, downloaded from Kaiser Family Foundation Internet site). Costs per person were increased at an assumed 4% annual rate, and the Sources: Legislative Research Unit projections based on cost data e-mailed by Allen Griffy, Supervisor for Contracts and Data Management Section, Office of number of uninsured, low-income women was increased at an assumed 1.10% annual rate.

Appendix C: Projected Costs of Breast and/or Cervical Cancer Screening Program to 2016

