

Impact of Medicaid Expansion on a State's Economy

The Hilltop Health Care Reform Simulation Model

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Overview of the Hilltop Health Care Reform Simulation Model

- The model consists of four component models:
 - Population Model
 - Employment Model
 - Expenditure and Financial Model
 - Economic Impact Model



Population Model

Projects:

- Population and number of uninsured by age group, disability, and FPL (federal poverty level) status
- Number of people eligible for Medicaid Expansion
- Number of individuals who are eligible but not enrolled in Medicaid, but are likely to enroll with individual mandate ("woodwork effect")



Current Population Survey: Number of Uninsured Individuals by Percentage of the FPL

Number of Uninsured (2009 to 2010)

	Income-to-Poverty Ratio, 2009 to 2010							
Age Group	Below 50%	50% to below 139%	139% to below 150%	150% to below 200%	200% to below 400%	400% and above	Total	
00 to 20	16,494	37,647	8,768	27,038	36,608	13,949	140,504	
21 to 64	72,196	117,572	23,340	88,316	189,177	105,635	596,236	
65 to 80+	2,216	2,944	649	634	4,362	1,795	12,600	
Total	90,906	158,162	32,758	115,988	230,147	121,379	749,340	

Source: U.S. Census Bureau



Forecasting Numbers of Uninsured

- To forecast number of uninsured by age group and FPL status, adjustments are made to account for:
 - The effects of aging of the population
 - Changes in economic conditions
 - Under-reporting of Medicaid enrollment
 - Over-reporting of commercial insurance



Unemployment Rate

- Unemployment rate projections are used in both Population and Employment Models
- Estimated econometric model to forecast state's unemployment rate as a function of national unemployment rate
- Used the long-term forecast of the national unemployment rate published by the Congressional Budget Office (CBO)



Unemployment Rate and Number of Uninsured

- Increase in unemployment rate leads to decrease in employer-sponsored insurance (ESI) and increase in number of people with Medicaid coverage (Gruber & Levitt, 2002)
 - Explains recent rapid growth in Medicaid enrollment due to economic recession
- Effects of change in unemployment rates are included in the Population and Employment Models



Citizenship Status

- The model takes into account state's population that has U.S. citizenship
 - Eligible for enrollment in Medicaid expansion
 - Eligible for coverage through the exchange, with or without subsidies



Employment Model

- Projects insurance take-up rate for individuals above 138% of the FPL
- Three econometric sub-models project employer-sponsored insurance and direct purchase of insurance:
 - Employer Offer of Insurance
 - Employee Take-Up of Insurance
 - Direct purchase of insurance through the Exchange



Expenditure & Financial Model

- Show summaries of new revenues, expenditures, and savings
- Estimates are based on:
 - Projections of the Population and Employment models
 - Detailed calculations based on the ACA law and specific to the state



Federal Medical Assistance Percentage (FMAP) for Expansion Enrollees

- FMAP rates for Medicaid Expansion:
 - 100% in federal fiscal years (FFYs)2014 2016
 - 95% in FFY 2017
 - 94% in FFY 2018
 - 93% in FFY 2019
 - 90% in FFY 2020 and later



Impact on Employers and Employees

- Federal assessment of employers under the ACA:
 - Fewer than 50 employees: Exempt from penalties
 - More than 50 employees with no insurance coverage: Penalty of \$2,000 per employee, excluding 30 employees



Economic Impact Model

- Estimate new spending in the health care sector due to the ACA
- Evaluates the total economic impact of the ACA on the state's economy
- Estimates the effects of spending in health care sector on other sectors of the economy



Model Output Includes

- Flow of new federal funds through the state economy
- Additional state products/outputs generated
- Total uninsured (with and without ACA)
- Uninsured as % of total population
- New employment due to ACA
- Unemployment rate with and without ACA
- Federal subsidies to individuals
- Increases in health care expenditures



Population Insurance Coverage Status (1000s)

	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Total Maryland Population	5,924	5,962	6,013	6,064	6,114	6,165	6,216
Medicaid	1,088	1,129	1,156	1,185	1,208	1,227	1,244
Medicare	833	860	893	926	958	991	1,024
CHAMPUS/Tricare	188	187	186	185	184	184	183
Commercial Insurance Coverage	3,248	3,280	3,282	3,283	3,285	3,284	3,285
Maryland Health Benefit Exchange	147	170	184	208	235	258	284
Total Uninsured	599	514	489	473	440	415	390
Adjustment for Dual Coverage	-178	-178	-178	-196	-196	-194	-193
Total Coverage including Dual Coverage	6,103	6,140	6,191	6,260	6,310	6,360	6,409

The Economic Impact of the ACA (in Millions)

	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Federal Subsidies to Individuals (Tax Credits)	\$224	\$535	\$607	\$716	\$849	\$987	\$1,153
Federal Cost-Sharing Payments to Individuals	\$30	\$72	\$80	\$92	\$108	\$124	\$142
Total Federal Payments for Cost Sharing and Subsidies (Tax Credits)	\$254	\$607	\$687	\$808	\$957	\$1,111	\$1,295
Increase in Total Health Care Expenditures	\$1,057	\$2,085	\$2,321	\$2,719	\$3,111	\$3,497	\$3,930
Additional Output Generated	\$1,174	\$2,020	\$2,123	\$2,421	\$2,693	\$2,965	\$3,283
Total Additional State and Local Taxes Generated	\$61	\$140	\$147	\$169	\$191	\$212	\$237

Uninsured, Number of New Jobs (in Thousands), and Unemployment Rate

	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20
Total Uninsured without ACA	746	736	728	719	719	722	724
Total Uninsured with ACA	599	514	489	473	440	415	390
Number of New Individuals Insured with ACA Law	147	221	239	246	279	307	333
Uninsured as % of Total Population (without ACA)	12.6%	12.3%	12.1%	11.9%	11.8%	11.7%	11.6%
Uninsured as % of Total Population (with ACA)	10.1%	8.6%	8.1%	7.8%	7.2%	6.7%	6.3%
New Employment due to ACA	9	16	17	20	22	24	26
Unemployment Rate without ACA	6.9%	5.8%	5.0%	4.5%	4.3%	4.3%	4.3%
Unemployment Rate with ACA	6.7%	5.5%	4.6%	4.1%	3.9%	3.8%	3.7%
Change in Unemployment Rate	-0.2%	-0.4%	-0.4%	-0.4%	-0.5%	-0.5%	-0.6%

Isolating the Effects of Medicaid Expansion

Compared outputs of the Hilltop Health Care Reform Simulation Model without Medicaid Expansion to a baseline that includes Medicaid Expansion under the ACA



Impact of Medicaid Expansion on the Economy

- Had Maryland decided not to expand Medicaid, in year 2015:
 - Medicaid coverage would be denied to 127,000 individuals
 - Health care expenditures would decrease by \$660 million
 - Economic output would decrease by \$950 million
 - There would be approximately 7,000 fewer jobs in the state economy



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