

#### Modeling the Impacts of the ACA on Health Insurance Coverage: A New Tool for States

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## Background

- Microsimulation modeling is an expensive, time-consuming undertaking for states
  - Most states need to contract out
  - Little to no ability to update for new data or test alternative assumptions
  - From a customer (state) perspective, the models are essentially "black boxes" (to varying degrees)



### Goals

- Build a useful model of state ACA impacts on coverage that:
  - Allows users to input/change assumptions
  - Allows for detailed analysis by characteristics relevant to health insurance coverage
  - Compared to microsimulation models:
    - Is more timely and can be updated easily
    - Is less costly
    - Is more transparent



## Basic model structure

- Spreadsheet based
- Model predicts impacts of the ACA's coverage provisions separately by:
  - Age
  - Income
  - Employer size
  - Coverage type
- 435 total combinations: 75 for children and 360 for adults

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#### **Basic Model Structure**

435 total combinations: 75 for children and 360 for adults

Age Groups 0 to 18 19 to 25 26 to 44 45 to 54 55 to 64	Insurance types* ESI (includes military) Nongroup Medicaid/CHIP Medicare Uninsured	Employer Size* <=50 >50 No employer *(use largest employer in HIU)						
	*primary source of coverage							
Income Categories*								
<u>Children</u>	Children <u>Adults</u>							
0 -150%	150% 0 - 35%							
151 - 200%	36 - 138%							
201 - 250%	139 - 200%							
251 - 400%	- 400% 201 - 250%							
401% or more	251 - 400%	251 - 400%						
	>400%							



\*HIU income

## Data Sources

- State-specific data:
  - 2010 American Community Survey: age, income, insurance type, and employment status
  - 2009 and 2010 MEPS Insurance Component: employer offer rates, worker eligibility, take-up
- Regional data:
  - 2009 MEPS Household Component: employer size, access to ESI, ESI take-up, health status

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## High-level flow of model

Baseline estimates by age/income/employer size/coverage type

**User-specified assumptions** 

Projections without policy changes

ACA policy changes directly affecting coverage

ESI access and take-up	Public program access and take-up	Nongroup coverage access and take-up



## Model outputs

- Health insurance coverage distribution
   By age, income, employer size
- Enrollment in:
  - Nongroup health insurance exchange
  - Basic Health Plan (if applicable)
- For Medicaid, estimates of:
  - Newly eligible
  - Previously eligible



#### **Baseline estimates**

- Statistical matching between ACS and MEPS-HC using age, income, insurance type, region, race, marital status, education, sex, and industry
- Generate baseline estimates for each age/income/insurance type/employer size cell in the model
- For each cell: number of people, % with access to ESI, and % in fair or poor health



## User-modifiable assumptions

- About 35 different assumptions that can be adjusted by users:
  - Timeframe and population/employment trends
  - Access to employer coverage (19-25 dependents, small employer tax credit, employer offer rates)
  - ESI take-up
  - Public program participation
  - Nongroup coverage purchase decisions
  - Exchange and BHP participation

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## **Default assumptions**

- Default assumptions must be chosen carefully and well documented
- Informed by:
  - Baseline values (e.g., participation rates in Medicaid under existing law)
  - Results of microsimulation models, to the degree these are publicly available



## **Example of assumptions**

3. ESI Access				
Changes in ESI Access and Coverage:	Baseline	Ass	umed change	Policy
A. Dependent coverage for 19-25 year olds				
% change in access to ESI for 19 to 25 year olds due to dependent coverage expansion				
% of 19-25 year olds with access to ESI	5	0.7	5.0percentage points	55.7
B. Small employer tax credit				
small employers newly offering coverage due to tax credit (percentage point change)				
% of employers under 10 offering coverage, 2010	3	1.9	1.4percentage points	33.3
% of employers 10-24 offering coverage, 2010	6	2.8	1.4percentage points	64.2
C. ESI access - change in employer offer rate				
Firms with 50 or fewer employees	3	9.6		
1. Increased offer rate in response to higher employee demand for coverage to comply w/mand	late		0.9percentage points	
2. Reduced offer rate due to employers dropping coverage because employees can obtain				
subsidized coverage in exchange instead			-2.0percentage points	
3. Change in offer rate due to increase/decrease in premiums related to ACA provisions:				
Percent change in premiums			-0.5percent	
Employer responsiveness to % change in premiums			-0.6% change in offer per 1% change in prem	
Percentage point change in offer rate due to premium changes			0.1percentage points	
Net change in offer rate, firms with 50 or fewer employees			<ul> <li>-1.0net change in offer, small employers</li> </ul>	38.6
Firms with more than 50 employees	9	4.4		
1. Increased offer rate in response to higher employee demand for coverage to comply w/mand	late		2.2percentage points	
2. Reduced offer rate due to employers dropping coverage because employees can obtain				
subsidized coverage in exchange instead			-4.7percentage points	
3. Change in offer rate due to increase/decrease in premiums related to ACA provisions:				
Percent change in premiums			-1.5percent	
Employer responsiveness to % change in premiums			-0.6% change in offer per 1% change in prem	
Percentage point change in offer rate due to premium changes			0.8percentage points	
4. Change in offer rate due to employer penalties for not offering coverage			0.6percentage points	
Net change in offer rate, firms with more than 50 employees			-1.1net change in offer, large employers	93.3



# Policy changes and order in which they are applied

- Dependent coverage expansion ESI
- Small employer tax credits ESI
- Other changes in access to ESI (employer behavior)
- Changes in ESI take-up (individual behavior)
- Medicaid expansion
- Changes in nongroup coverage
  - Availability of subsidies
  - Individual mandate
  - Premium impacts



## **Output tables**

- Distribution of insurance coverage, by age group
- Distribution of insurance coverage, by income
  - Total nonelderly population, children, and adults
- Distribution of insurance coverage, by employer size
- Shifts in health coverage distribution
   By age and employer size
- Medicaid/CHIP enrollment: previously eligible and newly eligible



## Discussion

- Compared to microsimulation modeling, our spreadsheet modeling tool is:
  - More state-specific (source data and assumptions)
  - Timely (ability to produce analysis quickly)
  - Flexible (many user-specified assumptions)
  - Transparent
  - Inexpensive
- "Default" assumptions must be well documented and explained, to promote responsible use of the model



## **Contact information**

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