

Mapping Patient Access Patterns for Community Health Centers by Insurance Status

Steve Schaffer Eric Turer John Snow Inc.



UDS Reporting - Overview

- Standardized set of data reported by federally funded programs:
 - Section 330 Grantees Community Health Center (CHC), Health Care for the Homeless (HCH), Migrant Health Care (MHC) and Public Housing Primary Care Program (PHPC)
 - FQHC Look-Alike (LAL) agencies
- JSI contract with Bureau of Primary Health Care (BPHC) includes producing the Service Area Analysis
 - Based on Zip Code Level Patient Reporting
 - Patient counts by zip code are aggregated to Census Zip Code Tabulation Areas (ZCTA) using JSI developed crosswalk
 - US Census ZCTA data provides population level data



New this year – Zip Code level reporting by Health Insurance Status



Purpose

- Provide a baseline and detail needed to monitor the impact of ACA implementation on health center access patterns
- Improve the baseline/target population(s) against which penetration and remaining unmet need is measured
- Examine relative draw of health center services for populations with different needs and options
- Visualize the relative role of different grantees serving the same area w.r.t. insurance



2013 Reporting Year

- <u>ACA</u>: Enrollment in Affordable Care Act insurance options begins for coverage in 2014
- ACS: Local Level Insurance Data released
- <u>UDS</u>: Users by Zip Code table reporting enhanced to add Insurance dimension





New Data Analysis Capabilities

- ZCTA community demographics by insurance
- Program penetration within each insurance type
- Proportional users from ZCTA by insurance type
- Unserved population by insurance
- Differential dominance/service by insurance type among grantees serving same area
- Differential between Health Center users vs mix in community by insurance



Matching ACS Insurance Data to UDS

- ACS allows multiple insurance reporting; UDS uniquely classifies patients
- Direct ZCTA-level ACS insurance tables released in 2013 were not useable
 - Level of detail reduced from tables initially discussed
 - Too much lag in 5-year timeframe
- JSI method produces I-year ZCTA-level insurance estimates matching UDS classification rules
- Uninsured & Medicaid categories are unique "Dual Eligibles" reclassified as Medicare
- Medicare and Private combined due to overlap
- One-year lag in ACS (2012) compared to UDS updated when following year ACS released (currently Dec.)



ACS Community-level estimation process

- Starts with I-year PUMA-level insurance by age and income (Continuous coverage, n=2,380)
- Insurance types allocated to census tracts by 21 age and income brackets using 5-year C.T. data
- Dual-eligible pop removed from Medicaid within each age range to reflect Medicare as the payer
- Results allocated to census blocks in C.T. proportionally by population and then re-aggregated to the ZCTA level



Insurance status at the PUMA level

One year ACS

Status known across 21 age/income groups





Allocated proportionally to tracts by age/income

internally consistent within the PUMA





Tracts to ZCTA's





Tracts to Blocks

Allocated to blocks by proportion of tract income





Blocks to ZCTA's

Block values aggregated to ZCTA





Population counts by Insurance status at ZCTA's.

Matched to UDS patient data by insurance status.







Penetration of the Uninsured Pop



Percent Patients by Insurance





Improved population specific denominators for penetration analysis





Differential Penetration & Unserved





Differential Dominance by Insurance





Future Analytic Potential

- Trend in insurance mix and count within ZCTA resident population
- Trend in insurance mix and volume of health center patients from ZCTA
- Differential analysis vs trend/change in population
- Changes in grantee dominance by insurance
- Analysis of trend by different underlying factors
 - Medicaid expansion status (KFF)
 - Patient gain/loss areas
 - Rural/Urban



thank you Questions?

contact information

For more information, please contact us at:

Steve_schaffer@jsi.com Eric_turer@jsi.com 501 South St. Bow, NH 03304 (603)573-3300 www.jsi.com