



Associations Between Practice-Reported Medical Homeness and Health Care Utilization Among Publicly Insured Children

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Background

- Children's Health Insurance Program Reauthorization Act (CHIPRA) Quality Demonstration Grant Program
 - \$100 million to improve health care for children
 - 10 awardees (18 states), y fear grants starting in 2010
 - 52 total projects
 - National evaluation overseen by the Agency for Healthcare Research and Quality (AHRQ)
- 12 states with patienteentered medical home (PCMH) projects

Background & Research Question

- Relationship between "medical homeness" and children's health care utilization
 - Results vary by study, outcome (preventive care, ED visits, hospitalizations), and population (general population vs children with chronic conditions)
 - Most studies asses parent-reported medical homeness
 - Two studies of practice-reported medical homeness show mixed results (Cooley 2009, Paustian 2013)

Methods

- Cross-sectional baseline analysis
 - 3 states: IL, NC, SC
 - -64 practices (IL = 32, NC = 18, SC = 14)
- Children (birth-18 y) in Medicaid
 - Feefor-service or primary care casmenanagement

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Methods: Measures

- Practicereported "medical homeness"
 - National Committee for Quality Assurance (NCQA) 2011 medical home selfassessment: IL
 - Medical HomeIndex (MHI): NC
 - Medical Home Index Revised ShortForm (MHIRSF): SC
 - Tertiles: low, medium, high
- Utilization (prior 12 mo.)
 - WCV. 75% of recommended # of well-child visits
 - E DV: any non-rgent, potentially avoidable emergency department visit(NYU algorithm; Berlsaac 2010)

Methods: Analysis

- Multi-level logistic regression
 - Separate models for IL and NC/SC
- Covariates
 - Child-level: age, race/ethnicity, chronic condition/disability
 - Pediatric Medical Complexity Algorithm (Simon, et.al. 2014)
 - Medicaid eligibility based on disability
 - Practicelevel(NC/SC only): urban/rural, # of providers
- Sensitivity tests
 - Reestimated models with medical homeness as
 - Continuous variable
 - Categorical variable with cut points at 25th and 75th percentile
 - Inferences did not change

Child Characteristics

	IL (n = 33,895)	NC/SC (n = 57,553)
Age group, %		
0 to 5 years	53	57
6 to 12 years	31	30
13 to 18 years	16	14
Race/ethnicity, %		
black	45	33
white	31	45
other	24	22
Chronic condition or disability, %	31	34

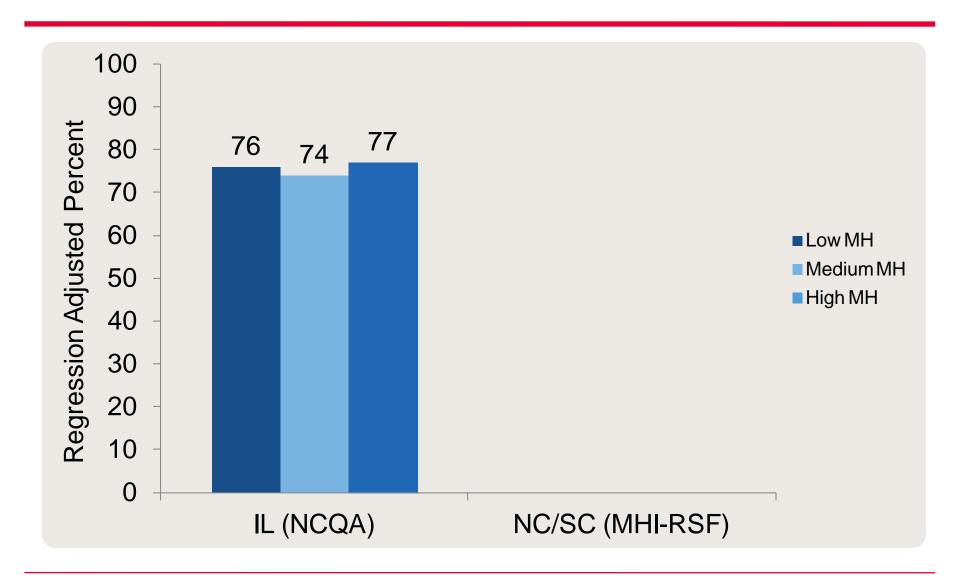
Results: Medical Homeness & Well

-Child Visits



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-Child Visits



Conclusions

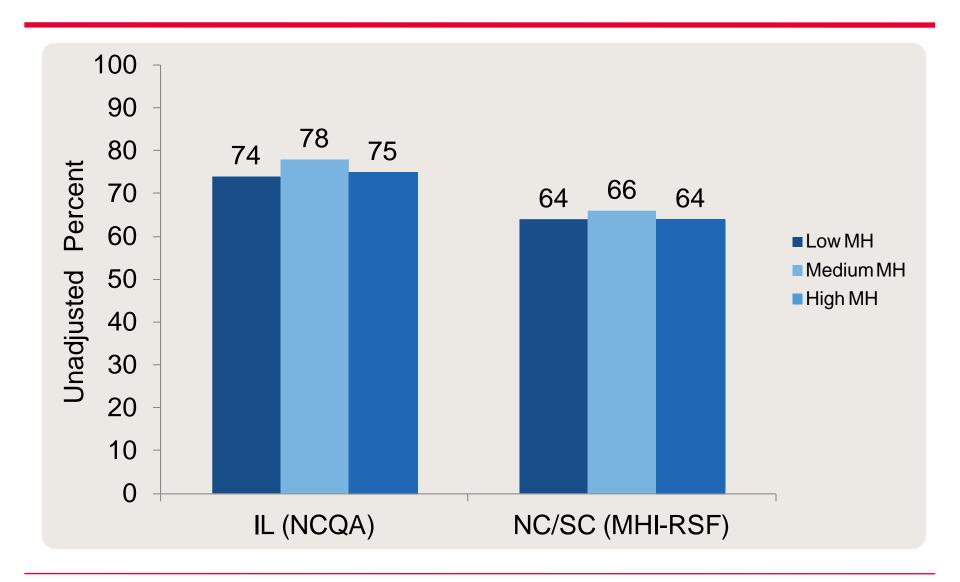
- Medical homeness was not associated with wellild visits
- Higher medical homeness was associated with fewer non-urgent ED visits, but only in IL where NCQA medical homeself-assessment measure was used
- Limitations
 - Cross-sectional
 - May not be representative of Medicaid managed care
 - Could only attribute children with some service use
 - Different measures vs. different states

For More Information

 National Evaluation of the CHIPRA Quality Demonstration Grant Program
http

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-Child Visits



Urgent ED Visits

