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Adapting the Sustainable High-Utilization Team Model in Four Diverse Sites

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- The PICO national network initiated the learning network that laid the foundation for this project
- Technical assistance partners are Rutgers CSHP, CCHP & the Center for Health Care Strategies
- Our clinical partners coordinate care for the patients, collect project data, and provided insights for the analysis





Neighborhood Health Centers of the Lehigh Valley





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Outline

- Introduction
- The Camden Model
- Intervention adaptation
- Patient characteristics
- Changes in selected outcomes
- Summary, next steps, reflections

Introduction

CMS Innovation Center Health Care Innovation Awards

 "...compelling new ideas to deliver better health, improved care and lower costs to people enrolled in Medicare, Medicaid and Children's Health Insurance Program (CHIP), particularly those with the highest health care needs." (innovation.cms.gov)

Project Elements

- Camden Coalition of Healthcare Providers high-utilizer care coordination model
- "Adapt" not "replicate"
- Establish a learning network
- Demonstrate effectiveness
- Achieve sustainability



Data & Measures

- Data collected by care management staff at or shortly after each encounter at four sites (11/12 to 9/14) and Camden (11/12 to 5/14)
- N = 1,110 (range 82 to 400 per site)

Care management tracking	Baseline	Monthly	Exit
Demographics & payer	Х		
Hospital admissions & emergency department (ED) visits	Х		
Chronic conditions (CCW) ¹	Х		
General health status and unhealthy days	Х	Х	
Social comorbidities	Х	Х	
Patient-centered care coordination (CPCQ) ²	Х		Х

¹ The 27 chronic conditions in the Chronic Conditions Warehouse (www.ccwdata.org/web/guest/home). ² Client Perception of Coordination Questionnaire (McGuiness 2003, http://dx.doi.org/10.1093/intqhc/mzg043).

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The Camden Model

MEDICAL REPORT

THE HOT SPOTTERS

Can we lower medical costs by giving the neediest patients better care?

BY ATUL GAWANDE

Tf Camden, New Jersey, becomes the first American community to lower its medical costs, it will have a murder to thank. At nine-fifty on a February night in 2001, a twenty-two-year-old black man was shot while driving his Ford Taurus station wagon through a neighborhood on the edge of the P

sity campus. The vic the street beside th driver's side, as if the A neighborhood cou pist and a volunt proached to see if th

ken family physician who had grown up in a bedroom suburb of Philadelphia. As a medical student at Robert Wood Johnson Medical School, in Piscataway, he had planned to become a neuroscientist. But he volunteered once a week in a free primary-care clinic for poor immigrants,

Bratton and the Comp policing that he had ch nineties, which center crime and focussing rese spots. The reform panel den Police Department erized crime maps, and beats and shifts to focus and times.

> crime maps, Brenner m persuaded Camden's thr ing records. He transfer

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When the police we MACARTHUR FELLOWS / MEET THE CLASS OF 2013



Primary Care Physician

Founder and Executive Director

Camden Coalition of Healthcare Providers

News Release

CHAPTER 114

AN ACT establishing a Medicaid Accountable Care Organization Demonstration P supplementing Title 30 of the Revised Statutes.

Click to watch **DOCTOR HOTSPOT on PBS**

BE IT ENACTED by the Senate and General Assembly of the State of New Jersey:

Institute of Medicine Elects 70 New Members Associates

Released: 10/20/2014

The Institute of Medicine (IOM) today announced the names of 70 new mg during its 44th annual meeting. Election to the IOM is considered one of t health and medicine and recognizes individuals who have demonstrated c

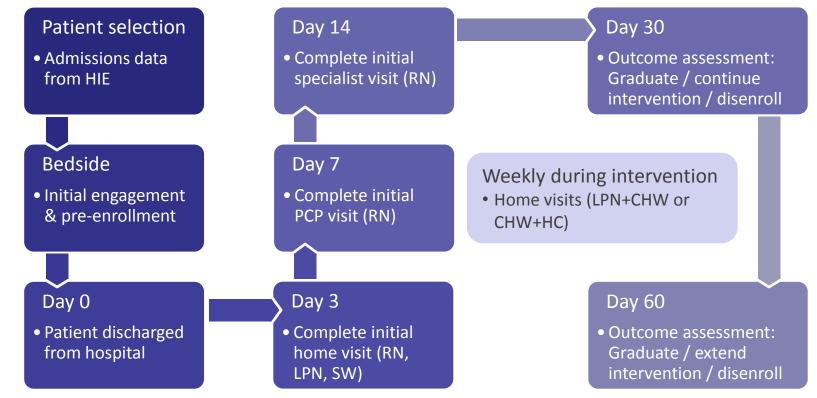
The Camden Model¹

Enrollment criteria:

- 2+ admissions in 6 months
- Medical and/or social comorbidities
- Selected exclusions

Team composition:

- Nurse (RN) team leader
- Social worker (SW)
- Licensed practical nurse (LPN)
- Community health workers (CHW)
- AmeriCorps Health Coaches (HC)



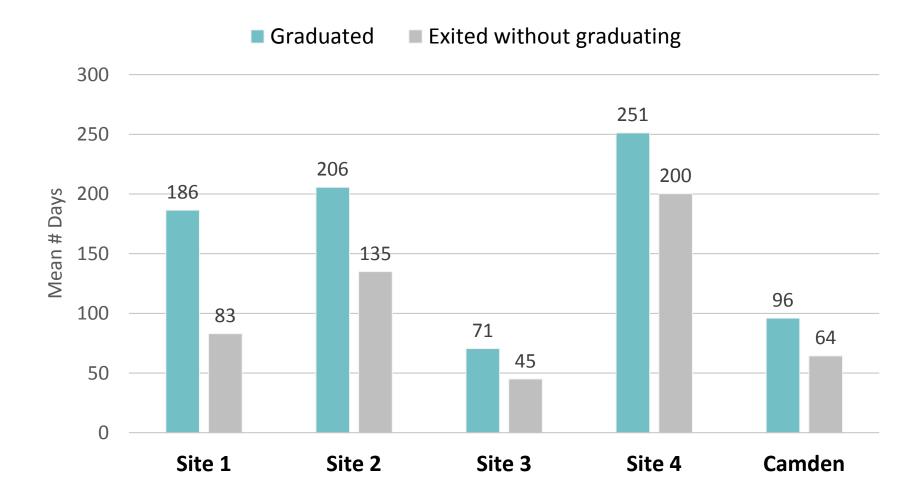
¹ As presented to the clinical partners at start of program; model continues to undergo adjustments.

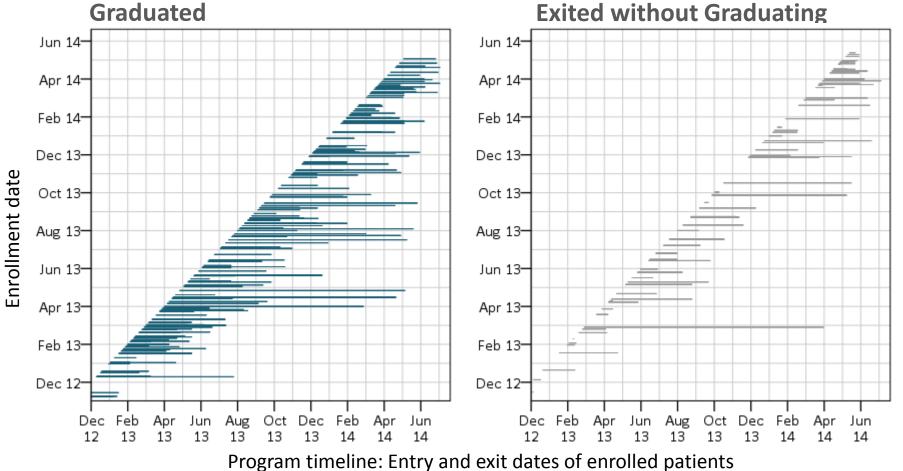


Intervention Adaptation

Enrollment Criteria

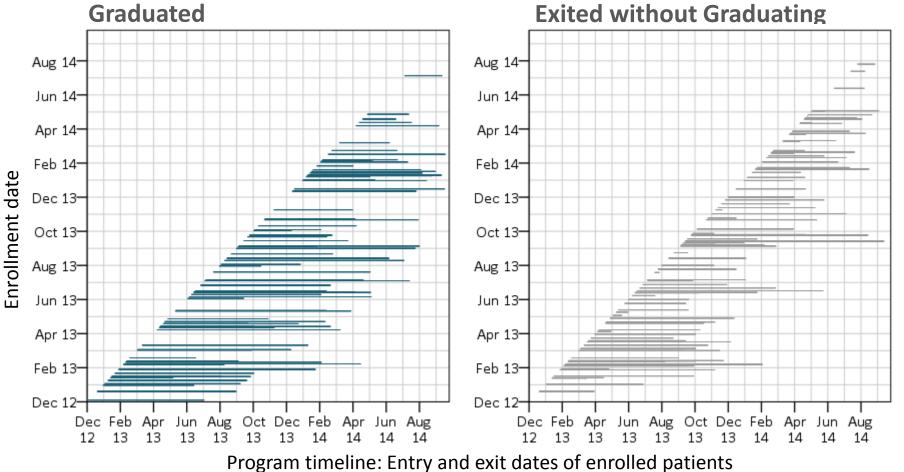
Program	Inclusion	Exclusion	
Camden	2+ admissions in 6 months, with medical and/or social comorbidities	OB, cancer, certain surgeries, chronic conditions w/ limited treatment, mental health as sole Dx, Age >80, receiving care management services elsewhere	
Site 1	2+ admissions in 6 months and 2+ chronic conditions	OB, cancer, maternity, mental/ behavioral health as 1° Dx	
Site 2	2+ admissions in 6 months or 3+ in a year, Medicaid/ Medicare/ uninsured	OB, terminal cancer	
Site 3	3+ visits in 6 months (inpatient or ED)	OB, cancer, HIV, personality disorder or substance abuse as 1° Dx, certain surgeries, diminished capacity, violent/ sex offenses	
Site 4	2+ admissions in 6 months (but allowing exceptions if multiple ED visits + chronic diseases + meds)	Behavioral health as 1° Dx, terminally ill	





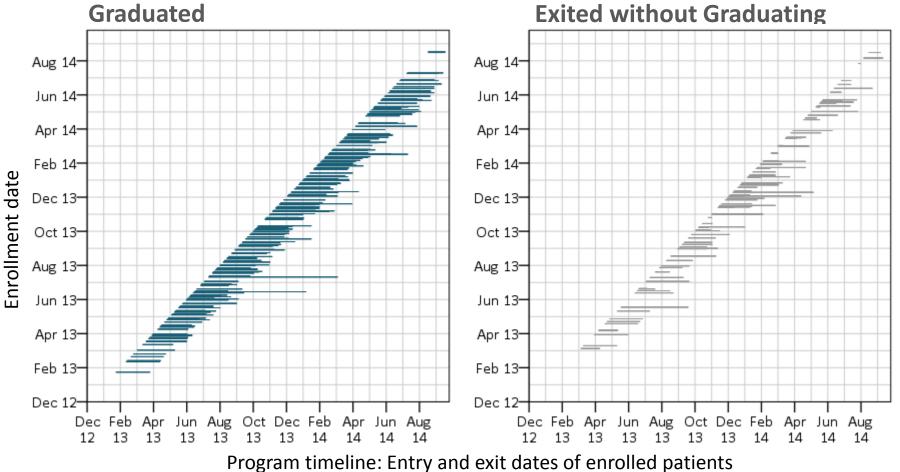
Camden

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Site 2

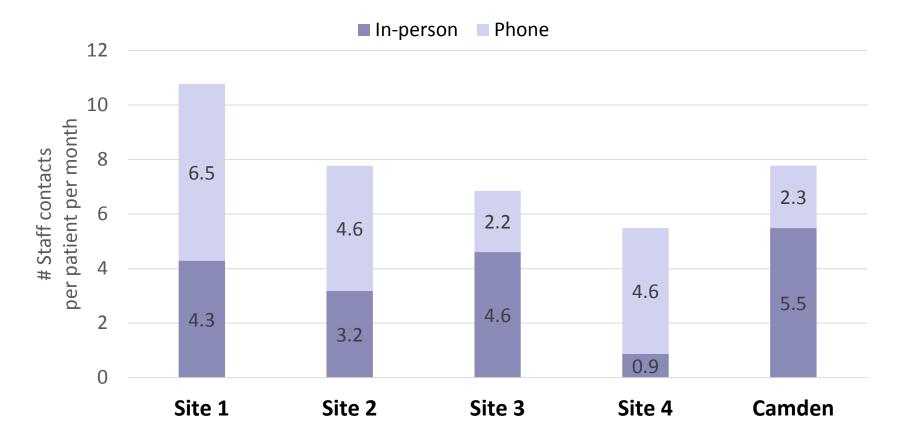
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Site 3



Staff <u>Contacts</u> Per Patient-Month, by Mode



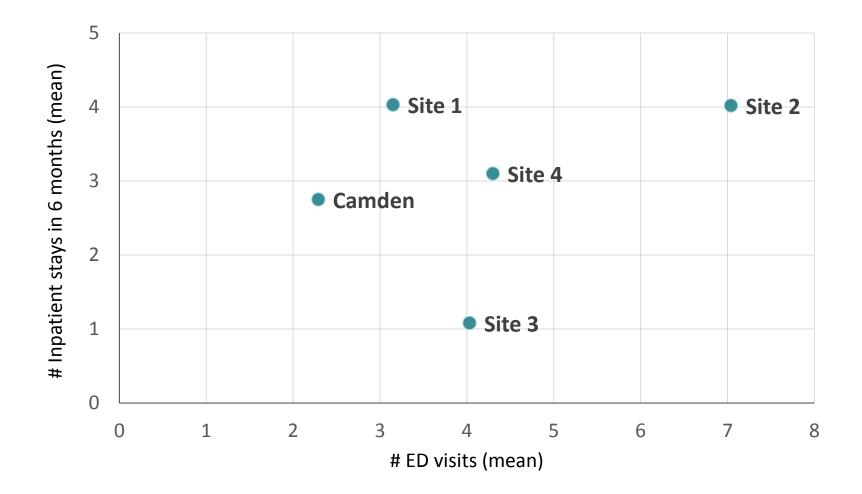
Notes: Total staff contacts (in-person, telephone, etc.) with or without patient present per 30 days of enrollment; excluding patients in intervention for <30 days.



Patient Characteristics at Enrollment

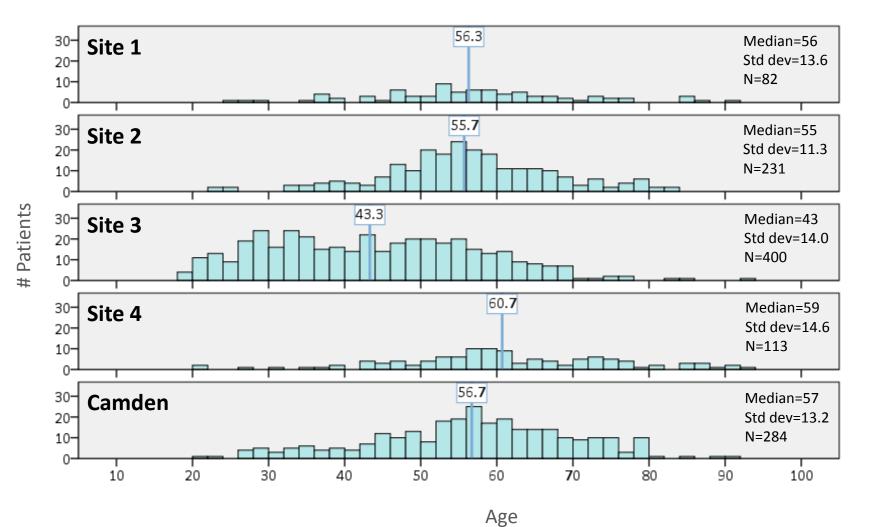


Inpatient Stays & ED Visits 6 mo. Before Enrollment



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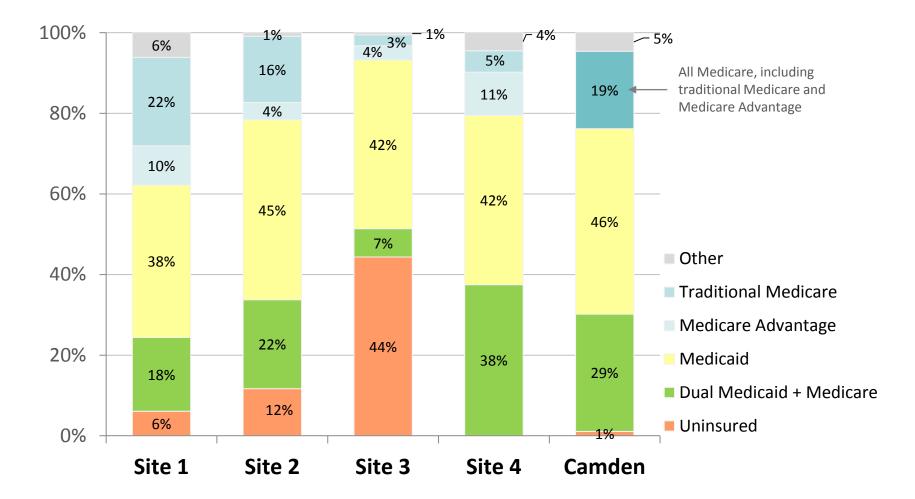
Age at Enrollment



Patient Demographics

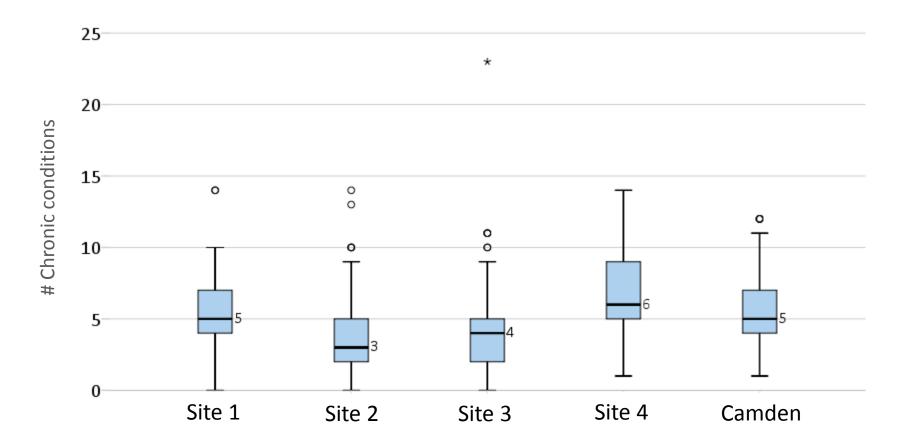
	Site 1	Site 2	Site 3	Site 4	Camden
Age					
Mean (std dev)	56.3 (13.6)	55.7 (11.3)	43.3 (14.0)	60.7 (14.6)	56.7 (13.2)
Race & Ethnicity					
% Hispanic	41.5	1.7	31.5	22.1	41.9
% Non-Hisp black	15.9	71.4	30.7	37.2	47.5
% Non-Hisp white	35.4	25.1	27.8	27.4	8.5
% Other / unknown	7.2	1.8	10.0	13.3	2.1
Gender					
% Female	45.1	50.2	70.8	54.0	48.6

Coverage Status, by Site



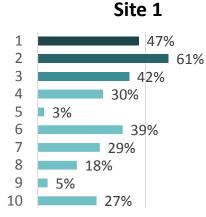


Number of Chronic Conditions

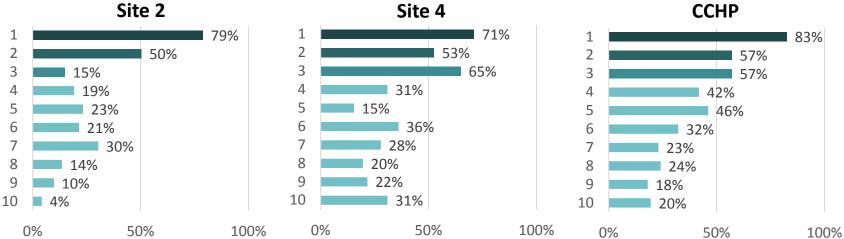


Top 10 Chronic Conditions, by Site

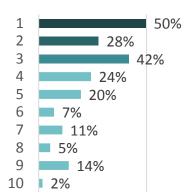
- 1. Hypertension
- 2. Diabetes
- 3. Depression
- 4. Asthma
- 5. Hyperlipidemia
- 6. Heart failure
- 7. COPD
- 8. Chronic kidney disease
- 9. Arthritis
- 10. Stroke



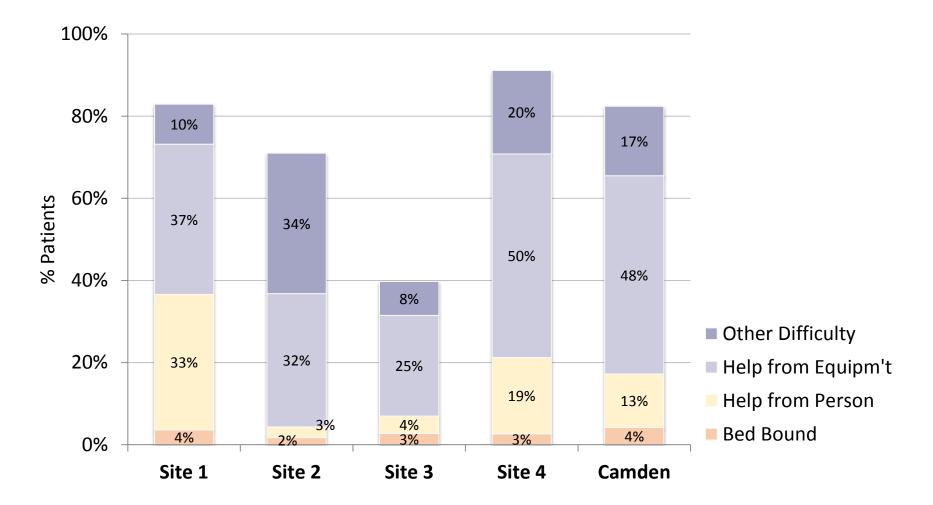




Site 3

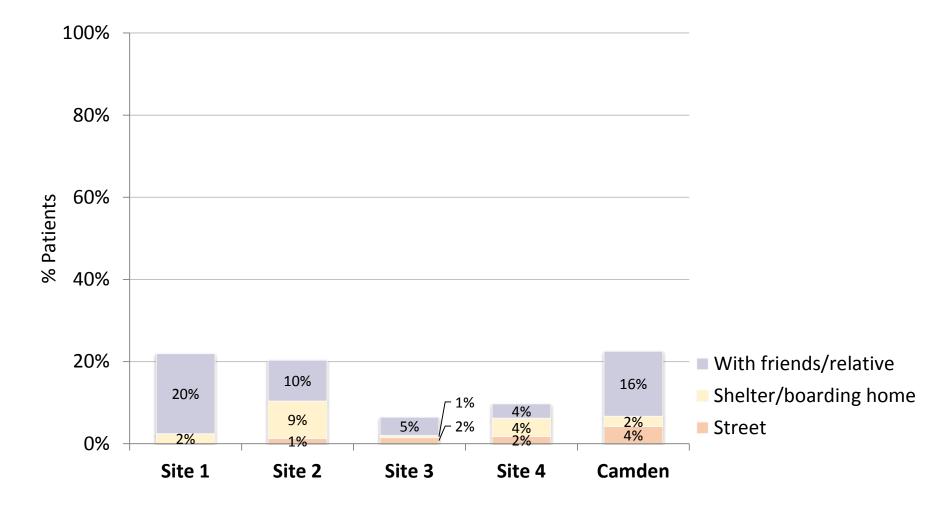


Mobility Difficulty at Enrollment



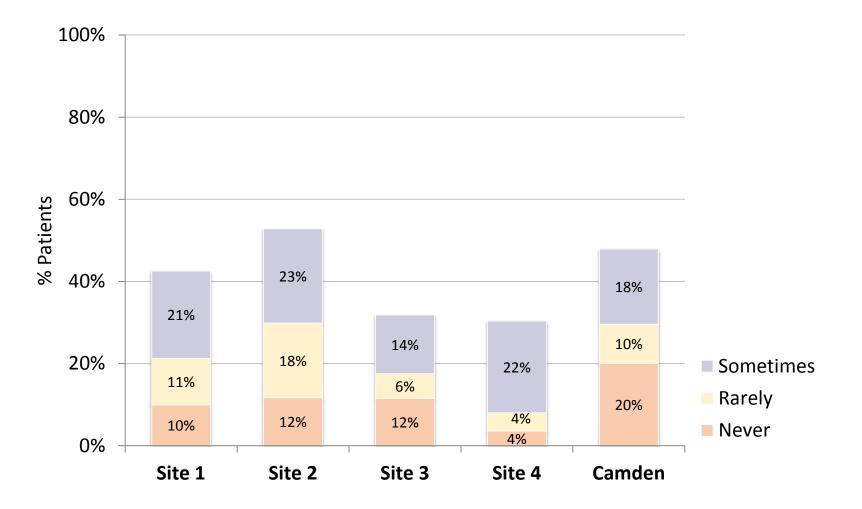


Housing Difficulty at Enrollment





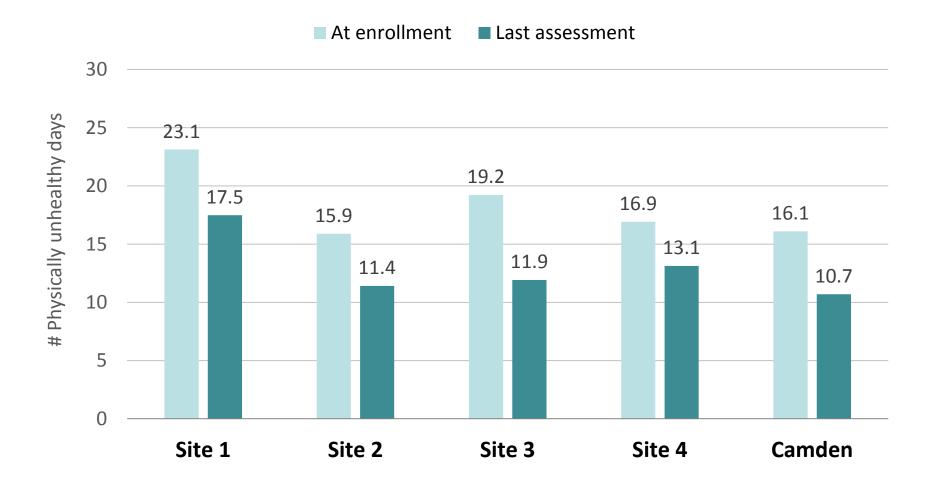
Social Support Available at Enrollment



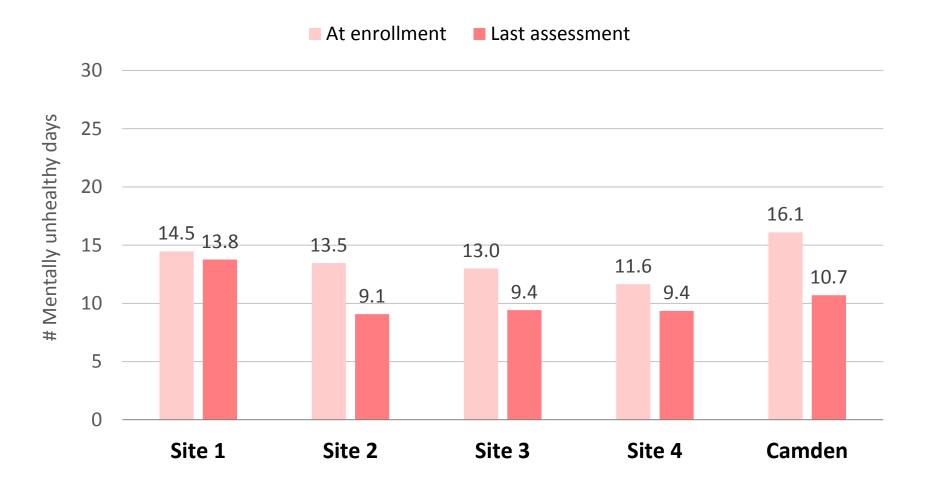


Changes in Selected Outcomes

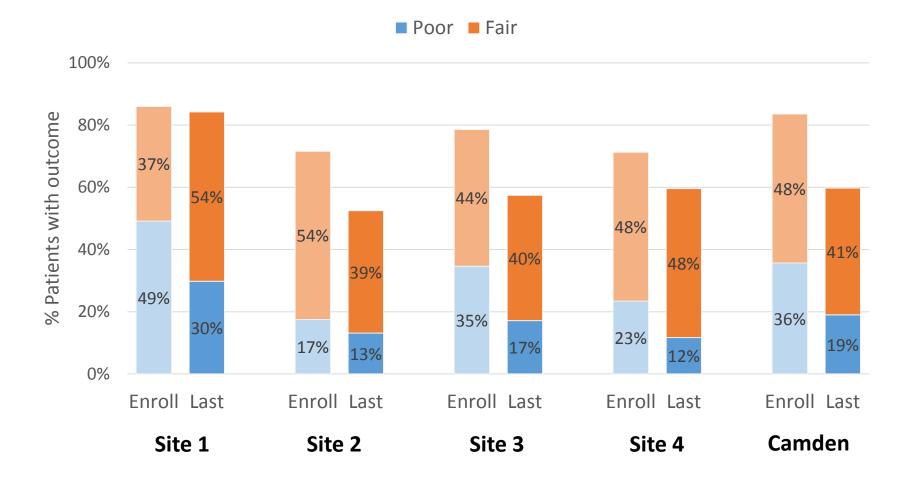
Days (in Prior 30) Feeling Physical Unhealthy



Days (in Prior 30) Feeling Mentally Unhealthy

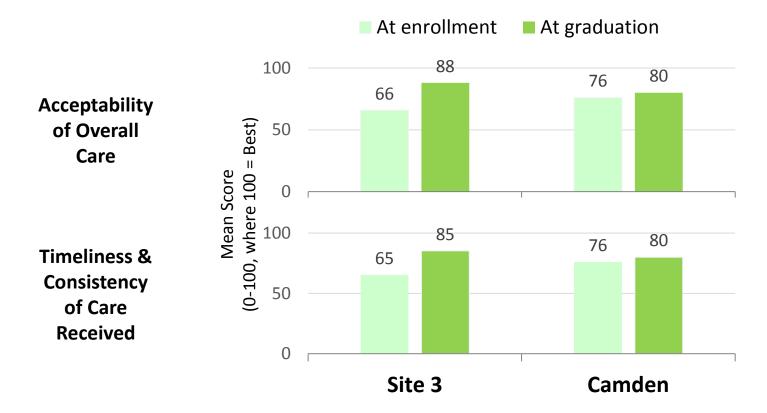


General Health Rating, % Fair or Poor





Patient Perceived Care Coordination (CPCQ) Graduates Only



Note: Sites with >20% missing data are not shown.

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Summary

- Unhealthy population, high hospital use, substantial social challenges
- Variations across sites
 - Enrollment criteria
 - Patient characteristics
 - Intervention duration and intensity
- Outcome indicators trend toward improvement
 - Cannot rule out regression to the mean
 - Some variability across sites

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Reflections

- Camden model not protocolized when project began
 - Has evolved a great deal
 - Presently undergoing a randomized clinical trial
- Variations in adaptation driven by
 - Environment (e.g., Medicaid program difference)
 - Organizational context (e.g., for-profit, FQHC, hospital)
 - Leadership

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Next Steps

- Intervention continues through June 2015
- Evaluation and documentation
 - Continue to collect intervention data
 - Document patient and staff stories
 - Benchmark hospital use and costs for all payers over time
 - Evaluate process and Medicare use and cost (Mathematica)
- Sustainability planning
 - Philanthropic support
 - Medicaid MCO contracting
 - Institutional support

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