Exploring High Utilizer Intervention Programs

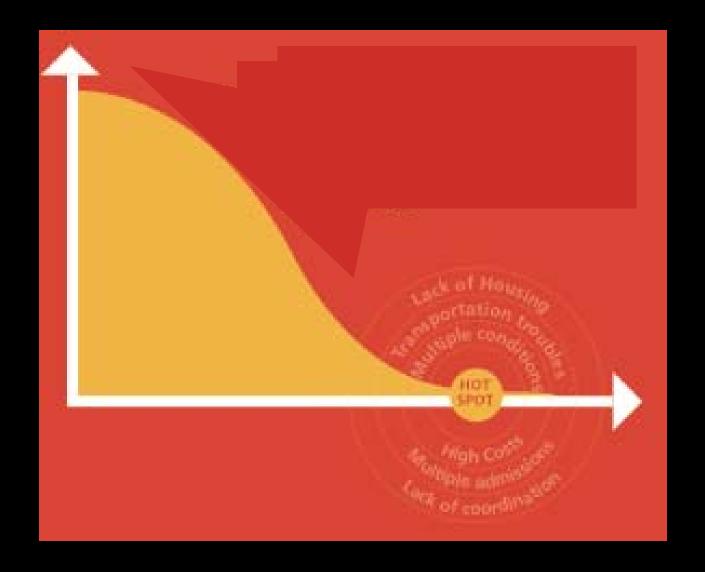


Jeffrey Brenner, MD
Executive Director

What do these patients have in common?

- •Homeless patient in Trenton, NJ with 450 visits in a year
- Dialysis patient in Allentown, PA with \$1 million in inpatient costs
- Frequently hospitalized wheelchair bound patient in San Diego, CA
- Middle class patient in South Eastern, PA with 147 CT scans
- Ventilator-assisted patient in Camden with \$745,000 in charges
- Dialysis patient with \$2 million in inpatient costs found by a group of student hotspotters

Outlier patients in the long tail of data

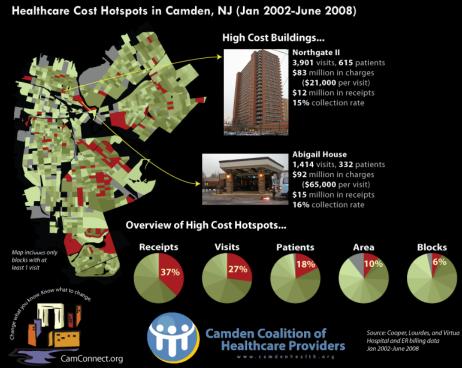


Who are patients with 'superutilization'?

- Homeless?
- Mentally ill?
- Addicted?
- Complex co-morbidity?
- Medication confusion?
- Transportation barriers?

Hotspotting- Lesson from NYPD and William Bratton





Utilization typology

	Inpatient visits, 2011				
ED visits, 2011	0	1	2	3 to 4	5+
0	0	1,293	57	4	1
1	26,128	2,075	117	7	0
2 to 3	13,390	1,842	373	68	3
4 to 5	3,216	666	223	118	15
6 to 7	1,020	251	106	84	24
8 to 9	386	112	39	41	11
10 +	339	96	70	65	62

Social determinants is a limiting construct...



Causality goes in many directions

Not deterministic but probabilistic

Perhaps....you can improve health without curing poverty?

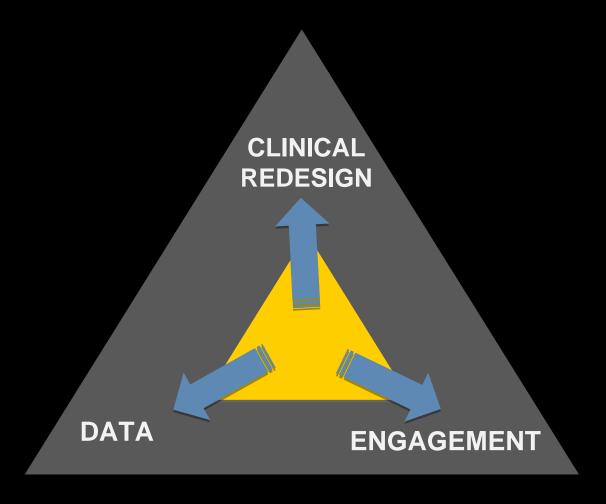
Population Health

Better care at lower cost for everyone everyday

Population Health

- Sociology
- Psychology
- Anthropology
- Non-linear math
- Systems engineering
- Business thinking
- Social work
- Medicine
- Nursing





Theory of Change



Standardization

EARLY AUTO WORKSHOP

- non-standard product
- high cost, poor quality

EARLY ASSEMBLY LINE

- standardized work
- lower costs & higher quality

MODERN ASSEMBLY LINE

- team-based work
- automation
- delegation
- standardization
- lower cost & high quality

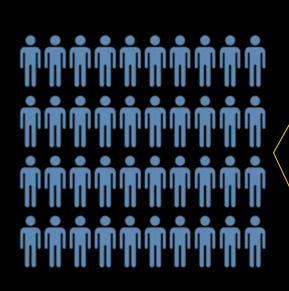


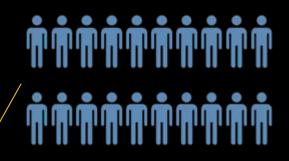
Camden Coalition of Healthcare Providers

Future of Population Health



CCHP's Care Management RCT







Standard of Care

Key Outcomes: reduced re-hospitalizations and ED visits in 12 month period following discharge



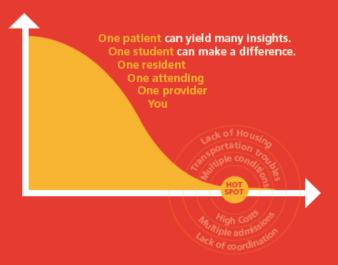
Movement Building: Student Hotspotting



Seeking the next generation of hot spotters!

Have you noticed those patients that visit the hospital again and again, whose faces are now recognizable to you? Every hospital has these patients with complex care needs who are admitted three times or more in a six to nine month window. Starting with one patient, you can gain insights into the root causes that lead to repeat visits to the emergency room or hospital. You can help these patients get better care. You can become a hot spotter.

Start with one patient, follow our 10 steps, become a hot spotter.



Jefferson Medical College

Johns Hopkins University School of Medicine

Louisiana State University School of Medicine with Tulane University School of Medicine

Ohio State University College of Medicine

Penn State College of Medicine

University of North Carolina School of Medicine at Chapel Hill with Duke University School of Medicine

University of Rochester School of Medicine and Dentistry

University of Washington School of Medicine

Vanderbilt University School of Medicine

Virginia Commonwealth University School of Medicine