

Is Improvement Passé?

Donald M. Berwick, MD, MPP President Emeritus and Senior Fellow, IHI

International Forum on Quality & Safety in Health Care Sydney, Australia – July 26, 2022

Two Cases

Case 1: 65 Year Old Man, with Diabetes, Chronic Lymphoblastic Leukemia, Incipient Renal Failure, Spinal Cord Injury with Decreased Mobility, Pulmonary Embolism.

Chief Complaint: Worried about abnormal, worsening blood test.

What Matters to Him: "Answer my question, please."

Case 2: Fever. Continually, slowly worsening. Difficulty coordinating important tasks. Often thirsty, hungry, and worried about security. Some difficulty breathing. Sense of impending doom. Quite well for 4.5 billion years, but recently in deep trouble.

Chief Complaint: Threat to Existence of Life.

What Matters to Him: Greenhouse Gas Emissions.



The Foundations of IHI

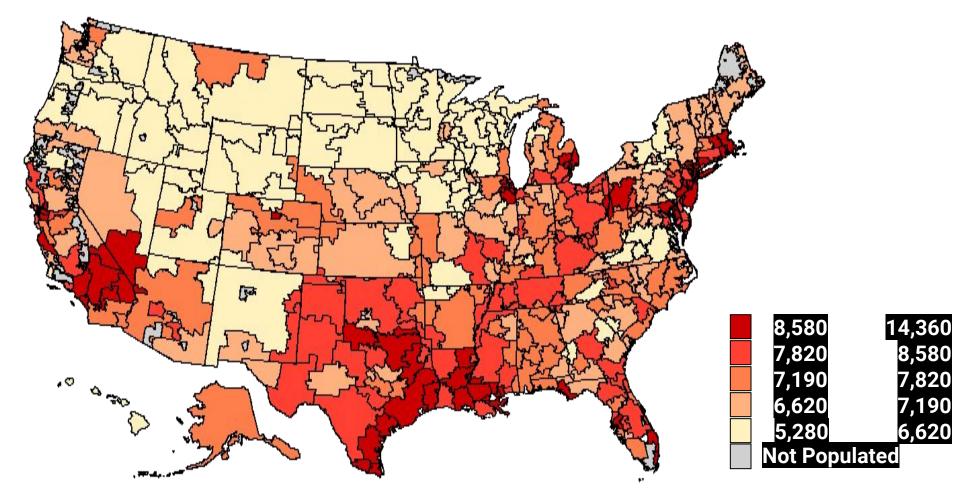
Aims

Methods

Methods Matter



Variations in Spending Across Regions (Elliott Fisher and Jack Wennberg)





Variations in Spending Across Regions (Elliott Fisher and Jack Wennberg)





THE INVERSE CARE LAW

JULIAN TUDOR HART

Glyncorrwg Health Centre, Port Talbot, Glamorgan, Wales

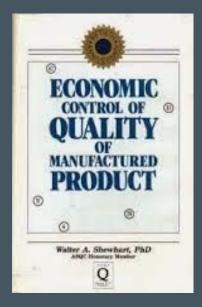
Summary

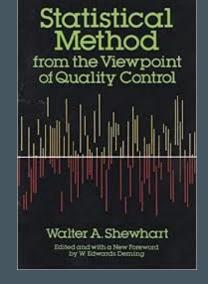
The availability of good medical care tends to vary inversely with the need for it in the population served. This inverse care law operates more completely where medical care is most exposed to market forces, and less so where such exposure is reduced. The market distribution of medical care is a primitive and historically outdated social form, and any return to it would further exaggerate the maldistribution of medical resources.



Walter A. Shewhart (1891-1967)

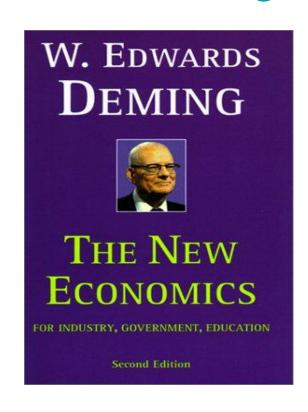


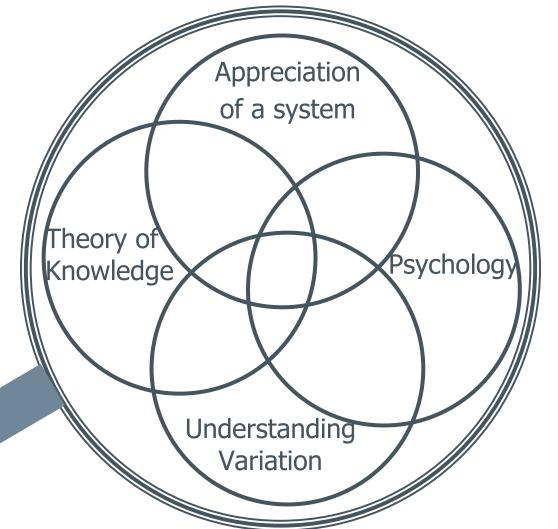






Deming's System of Profound Knowledge

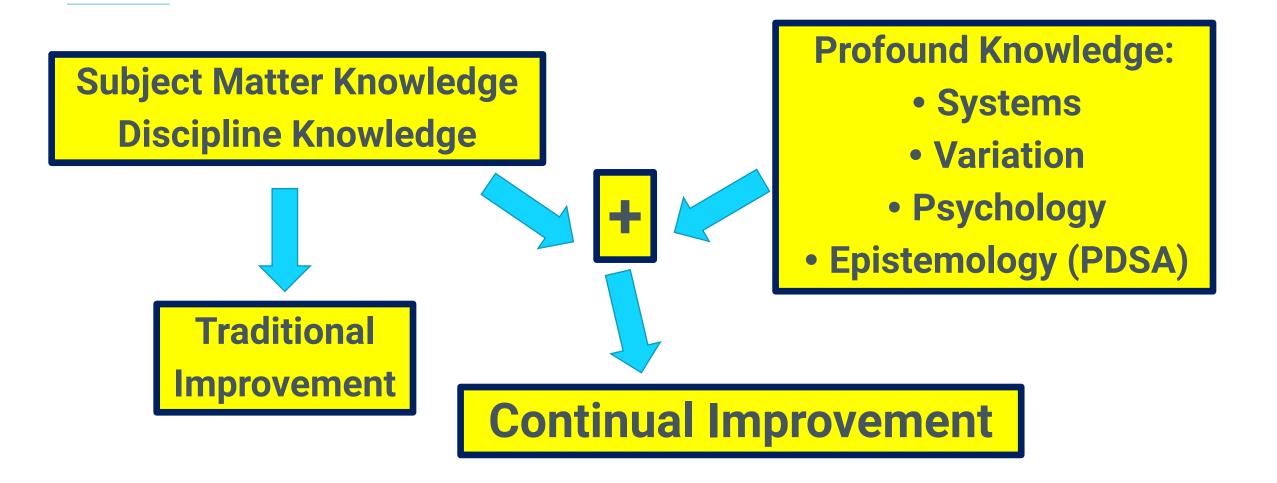








Traditional Improvement vs Continual Improvement





Categories of "Profound Knowledge" (with Examples)

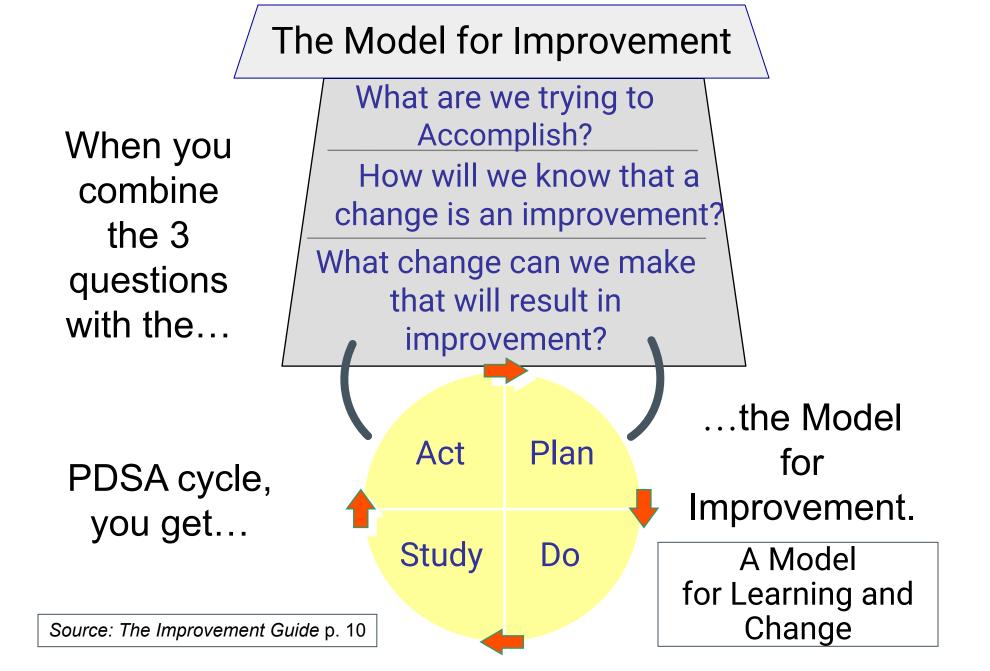
- Knowledge of a System
 - Non-linear Dynamics
 - Flow and Interdependency
- Knowledge of Variation
 - Measurement
 - Enumerative and Analytic Statistics
 - Common Cause and Special Cause
- Knowledge of Psychology
 - Group Processes, Conflict, and Cooperation
 - Adult Learning and Creativity
 - Theory of Motivation
- Theory of Knowledge
 - Plan-Do-Study-Act



"The Science of Improvement"

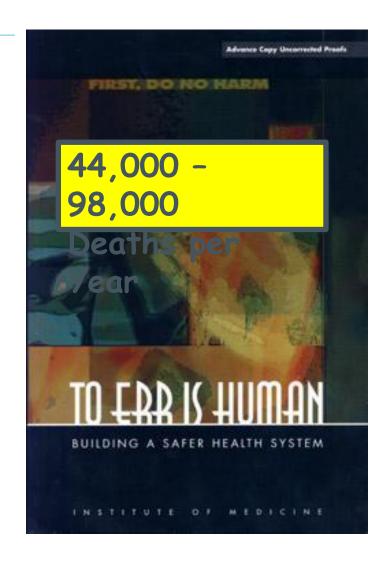
- Systems Thinking
- Understanding Variation
- Psychology
- PDSA
- The API Model for Improvement

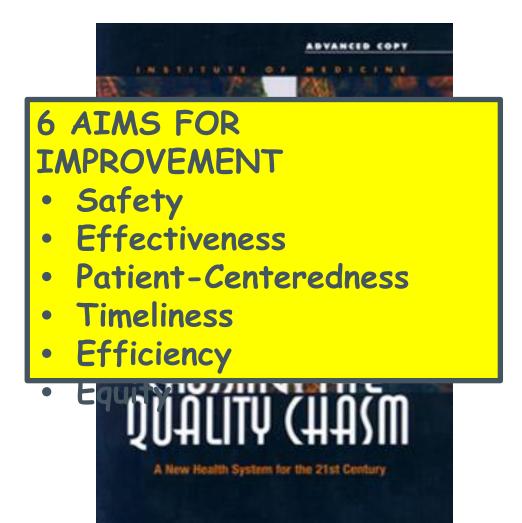






Institute of Medicine - 1999 & 2001





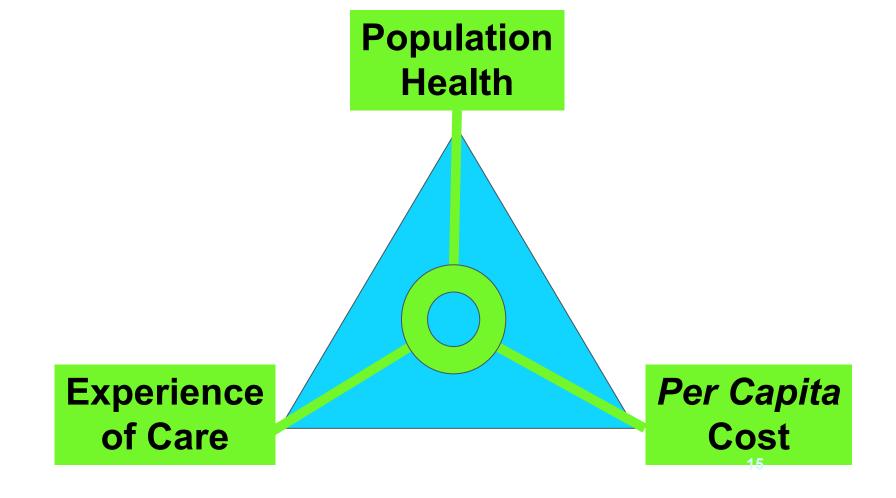


Preoccupations in 2022

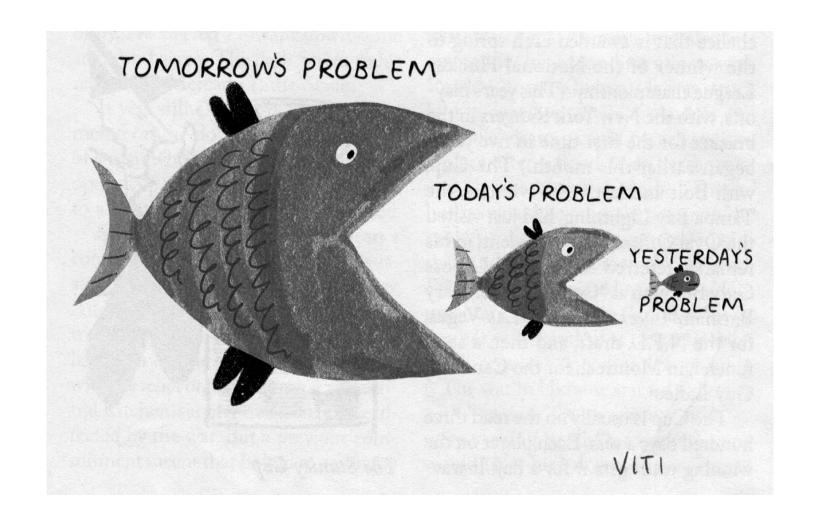
- 1. Equity
- 2. Climate Change
- 3. Pandemic Preparedness
- 4. Workforce Burnout
- 5. Social Determinants of Health



The Triple Aim









Is Improvement Passé? Or Can It Help Now?

Can the scientific methods of quality improvement help achieve gains in this new terrain – climate change, equity, a sustainable workforce, pandemic preparedness, and social determinants of health?



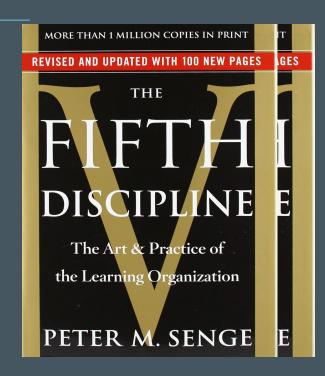
My Premise

We need to bring disciplined improvement science to the new social demands.

(Even to the injustices that anger us.)

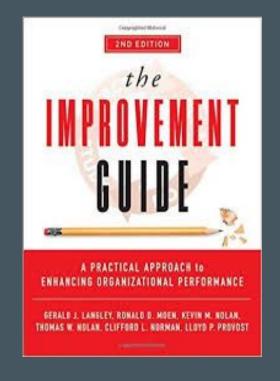


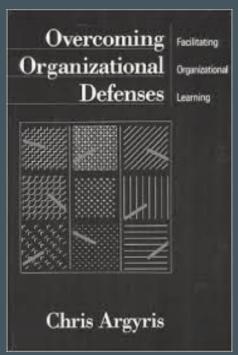
A Reading List for Leaders, Part 1



Peter Senge:
The Fifth
Discipline

Jerry Langley,
Tom Nolan, &
Kevin Nolan:
The Improvement Guide

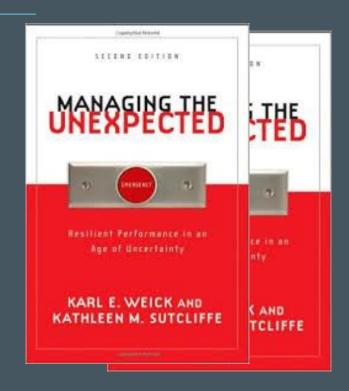




Chris Argyris:
Overcoming
Organizational
Defenses

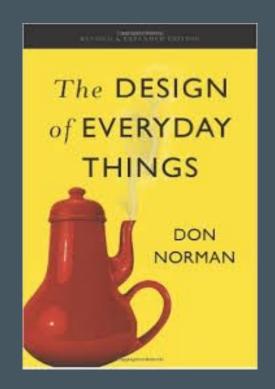


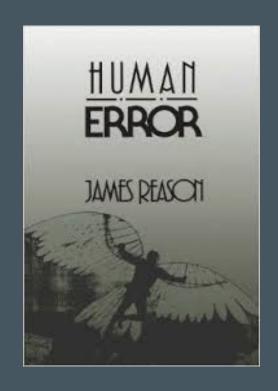
A Reading List for Leaders, part 2



Karl Weick and
Kathleen Sutcliffe:
Managing the
Unexpected

Don Norman:
The Design of
Everyday Things





James Reason: *Human Error*



From Stuart Duncan, Deputy Director, "Leading Improvement Team," Scottish Government

We (LIT) are a small team of qualified Improvement Advisers who support policy officials and delivery officers on their improvement journey. We don't just teach (our evidence shows this is not enough) but we also coach and mentor improvers along their individual improvement journey under they tell us 'they get it'. We continue to be funded entirely by SG Health & Social Care and focus on system improvement. We were set-up to 'spread the word' and help any willing wannabe improver. Now we've honed-in on people/ organisations who have the greatest impact on improving equity and reducing social inequality (i.e., the social determinants of health). We do support health policy (but not delivery – this is done by HIS and NES) but more generally in wider SG, public and third sector.

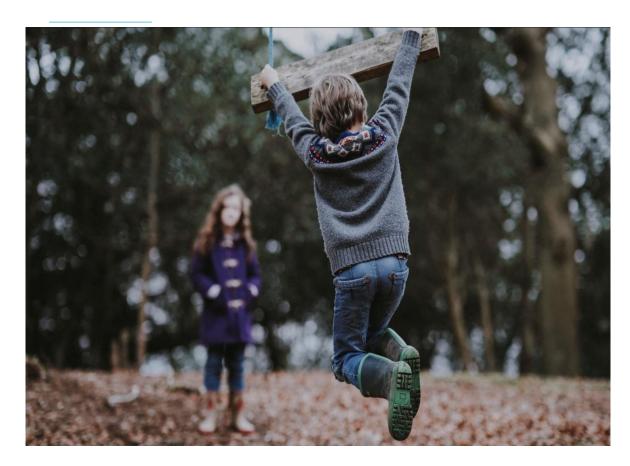


The Flower of Scotland (pre 2020)



"Our Purpose:
To focus on creating a more successful country
with opportunities for all of Scotland to flourish through increased wellbeing and sustainable and inclusive economic growth."

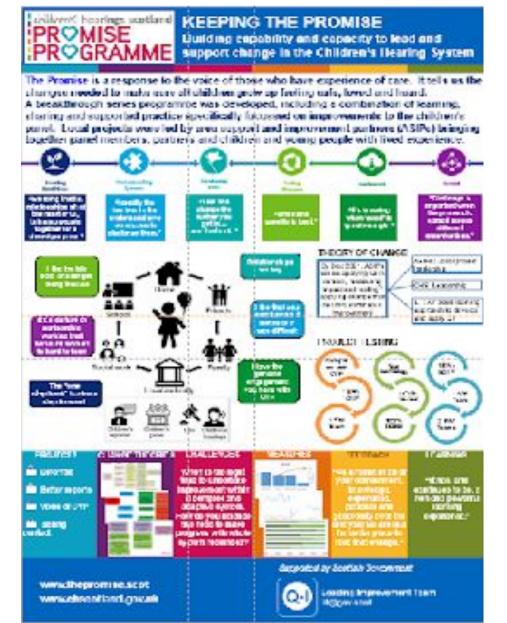
Reducing trauma experienced by victims of crime







Keeping The Promise



"The Promise is a response to the voice of those who have experienced care. It tells us the changes needed to make sure that all children grow up feeling safe, loved, and heard.

A breakthrough series programme
was developed, including a
combination of learning,
sharing, and supported practice
specifically focused on improvements
to the children's panel."



Post 2020: The 3C's - Child Poverty, Covid Recovery,

Climate

Low income families **Employability** Maximise income from employment Aim To have fewer than 10% Cost of living children living Minimise cost in households of living on low income by 2030, compared to Social Security the average UK Maximise household* income support

What needs to change to get us there?

Employed parents need to receive a decent (working living wage?) rate of hourly pay

Households need to have enough hours of paid employment to cover living costs

Parents need skills & motivation to find good quality paid work

Good quality paid work needs to be available for these families

Affordable, accessible & flexible childcare needs to be available

Available, affordable & accessible transport. particularly for those with a disability

Household costs need to be minimised

Living costs (e.g., food, energy) need to be minimised

Unmanageable debt needs to be minimised

Need to have internet access

Need access to affordable credit

Need access to adequate savings and assets

Benefits need to cover costs of living without

dis-incentivising paid employment

Benefits need to reach those who need it

Those in need are targeted as far as possible

Need to access all financial entitlements





Post 2020: The 3C's - Child Poverty, Covid Recovery, Climate

National Care Service

Care & Wellbeing Portfolio

- 1. Integrated Planned Care
- 2. Integrated Urgent & Unscheduled Care
- 3. Place & Wellbeing
- 4. Preventative & Proactive Care





Post 2020: The 3C's - Child Poverty, Covid Recovery,

Climate

NHSScotland Climate

Emergency & Sustainability

Strategy 2022-26

Between now and 2026. NHSScotland will focus on 5 priority areas

Sustainable **Buildings &** Land

Sustainable Travel

Sustainable Goods & Services

Sustainable Care

Sustainable Communities











Riaghaltas na h-Alba

gov.scot



Leading Improvement Team lit@gov.scot

trabalho com alegria





HAVING JOY IS BEING CONNECTED TO A PURPOSE. A purpose that goes through work and interpersonal

relationships.

It is to live and connect with whoever is by your side: a patient, a family member, a co-worker or the one who is next to you.

Joy must be shared, as well as knowledge, good practices and trust.

Participating in the decisions related to your work process contributes for you to live and share as a single team.







How did HSL start its journey?

Wania Baia attended wave 3
Especialista em Melhoria Brasil in 2018
Wania's improvement project was Joy
in Work at Sirio Lebanese Hospital
(HSL)

alegria





Wania's project Aim

Increase from 40% to 65% the percentage of employees in the semi–Critical Care Unit agreeing with the affirmative: "I participate in decisions related to my work process".

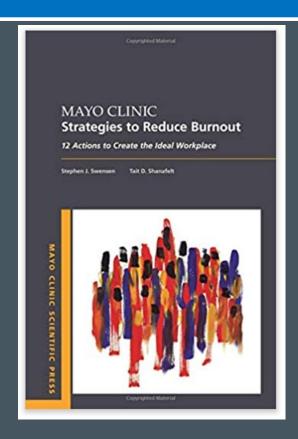
Wania used IHI framework for JIW systematically



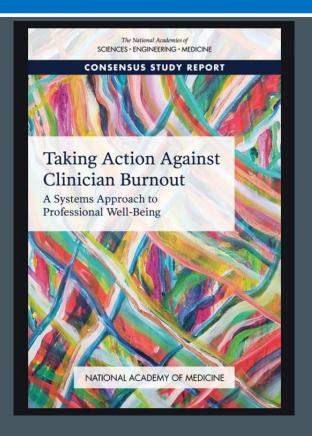


The Science on Clinician Burnout Has Advanced

Swensen SJ, Shanafelt TD.
Strategies to Reduce Burnout:
12 Actions to Create
the Ideal Workplace



National Academy of Medicine.
Taking Action Against Clinician Burnout





Positivity to Flourish

Removing Pebbles

AGENCY
COHERENCE
CAMARADERIE

Leader Index

Commensality

Job Crafting





alegria Project implementation

VOICE OF THE **EMPLOYEES**

Creation of the working groups based on the problems

WORKING GROUPS

Each employee chose the group he/she wanted to be

co-creatio n of groups and ideas

suggested vs implemented ideas

ГО

PHASE 1

"What matters to you"

PHASE 2

Affinity grouping (Pareto) – Impediments for JIW

PHASE 3 Co-creation e co-design

PHASE 4 Sharing the improvements Scale up























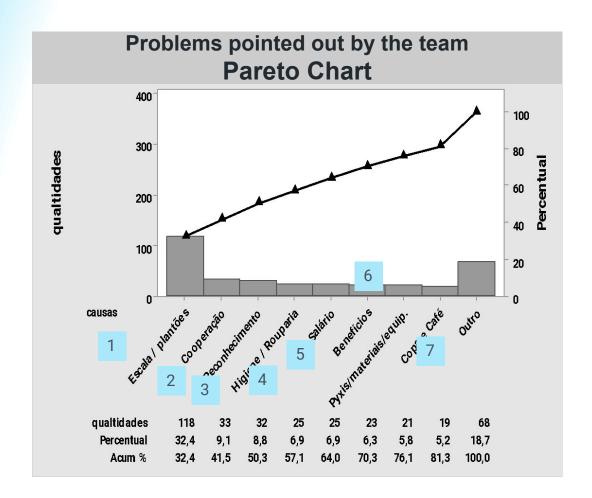








Most frequent impediments for JIW



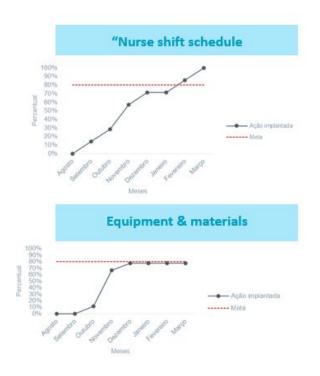
- 1. Health workers shift schedule (imposed by the coordinator nurses did not participate in this decision)
- 2. Cooperation / communication
 - 3. Recognition
 - 4. Laundry service
 - 5. Salary / Benefits
 - 6. Materials and equipment
 - 7. Coffee area (problems with the coffee machine)

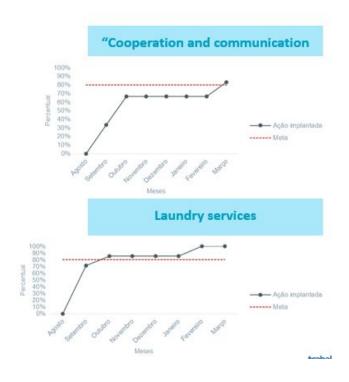






Processes measures % of changes implemented





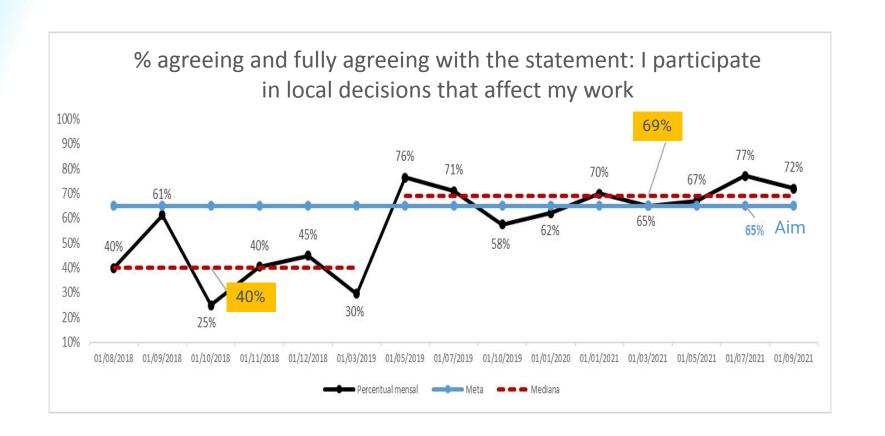
93% changes implemented







Outcome measure 1 – Participative management



What changed?

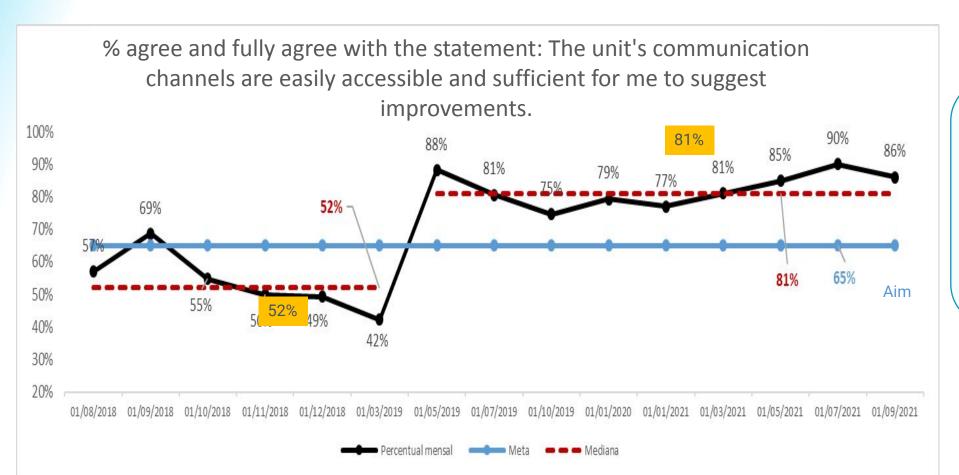
Now I have voice and autonomy







Outcome measure 2 – Participative management



What changed?

Employees have efficient channels to express ideas for improvement in their work process







Control Contro

Change in work schedule + autonomy



Greater interface with other areas + integration



Take care of the basics + organization

Improvements in the areas - examples







+ sustainability



Improvement in material availability
+ efficiency



Recognition tree + connection



Patient mobilization + equipment



+ communication



ROLN

Joy and Well-being Learning Network: A Results Oriented Action Community In 2021





























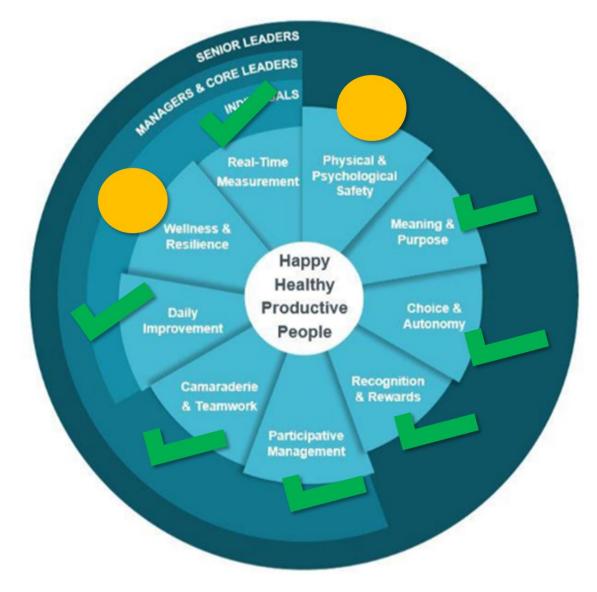


HSL aim during ROLN

Increase from 31% to 65% the percentage of staff experiencing JIW at the semi critical unit, from May 2020 to December 2021.

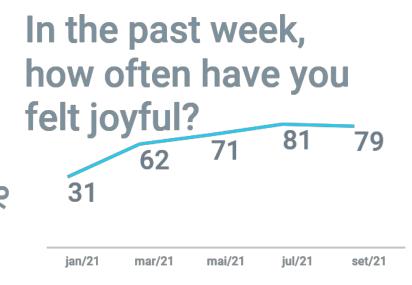
Since "Participative management" was implemented during Wania's Improvement project, HSL started implementing the others eight elements of the framework.

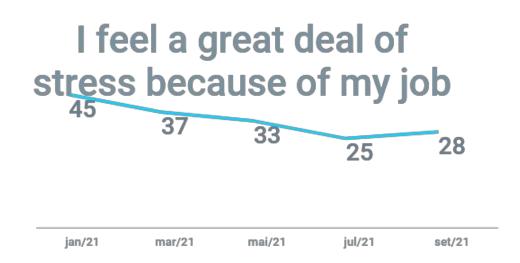
Great attention to "Physical & Psychological Safety and Wellness and Resilience" during participation in the ROLN





Measures used during - ROLN MINI-Z



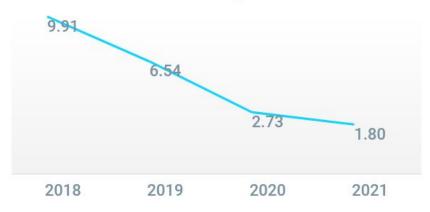




Measures used during - ROLN MINI-Z



Rate of adverse events with harm - patients



We still investigating concurrent hypothesis to explain this reduction



Inclusion of all 87 clinical areas (HSL Complex)



alegria

244 Working groups







Change in work schedule + autonomy



Greater interface with other areas
+ integration



+ sustainability (environment)



Take care of the basics + organization



Improvement in material availability
+ efficiency



Patient mobilization + equipment



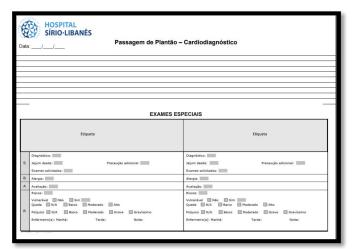
Recognition tree + connection



Newspaper online + communication



New projects



Redesign of shift handover



Marcação de ponto do colaborador na área de trabalho

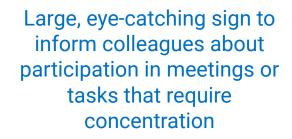


Getting to know the **Patient Transfer** Sector Recognition





Celebration birthdays



Keep the material closet organized, with the help and work of young apprentices





Implementation of Monthly Meetings with the team and leadership

Increase in the amount of disposable cutlery in the area



Scraps near the coffee table, coffee maker and cutlery to remind staff to keep the room clean and organized.



More improvement projects



Training resources
Playful games to train people



Clinical practices: workflow optimization for document validation



Operation room meeting with



Promotions
Board of promotions in each sector



operating room at an

intermediate time

Redesign of development of non
medical areas



Better control of surgical agenda on Sundays



Review the Checklist for replacement of materials and medications in the endoscopy room

trabalho com



Shared shift schedule and distribution and off days pharmacy







Discussion of cases high expectation with support from psychology in pediatrics



Integrated online newspaper
Oncology - external and inpatient areas improvement in the dissemination of
actions in the area



Emergency service: 5S tool integration to workgroups More improvement projects



Partnership between multi-site teams and IT to computerize shift handover in pediatrics







discard garbage Sustainability in hemodialysis



communication
between inpatient units
- Online newspaper - UI
News



Shared preparation of the shifts in the hospitalization units



And... more improvement projects











Access and continuity of use of private scrub in semi-intensive units

Recoginition to employess





Creation of copies of keys for the nursing team to access the medication cart



Workload adequacy: dividing SAEs between shifts









Uso de uniformes privativos / rotativo – uso exclusivo no hospital

Keep the door of the preparation room closed – inpatient units





Joyfull every day!





















































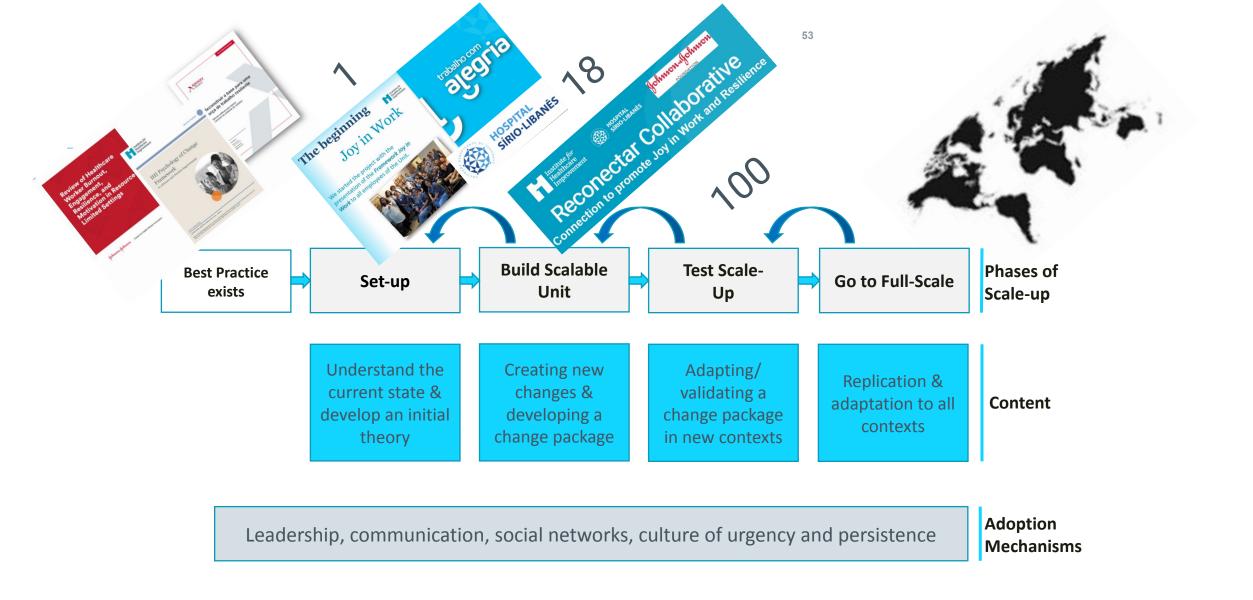
"What prevents the Joy In Work in the organizations is not the difficult or sad moments everyone experiences. It is the systemic conditions of invisible of the healthcare workers".

Wania Baía

wania.rmbaia@hsl.org.br

alegria



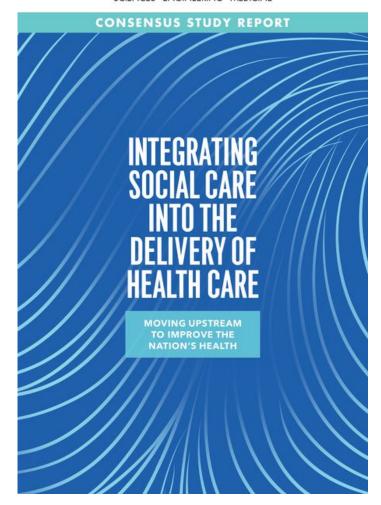


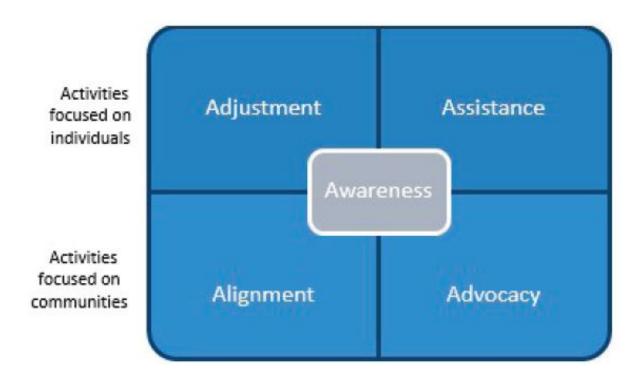
Learning systems, data systems, infrastructure for scale-up, human capacity for scale-up, capability for scale-up, sustainability

Support Systems



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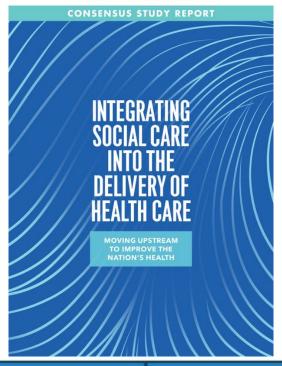








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Activities focused on individuals

Activities focused on communities



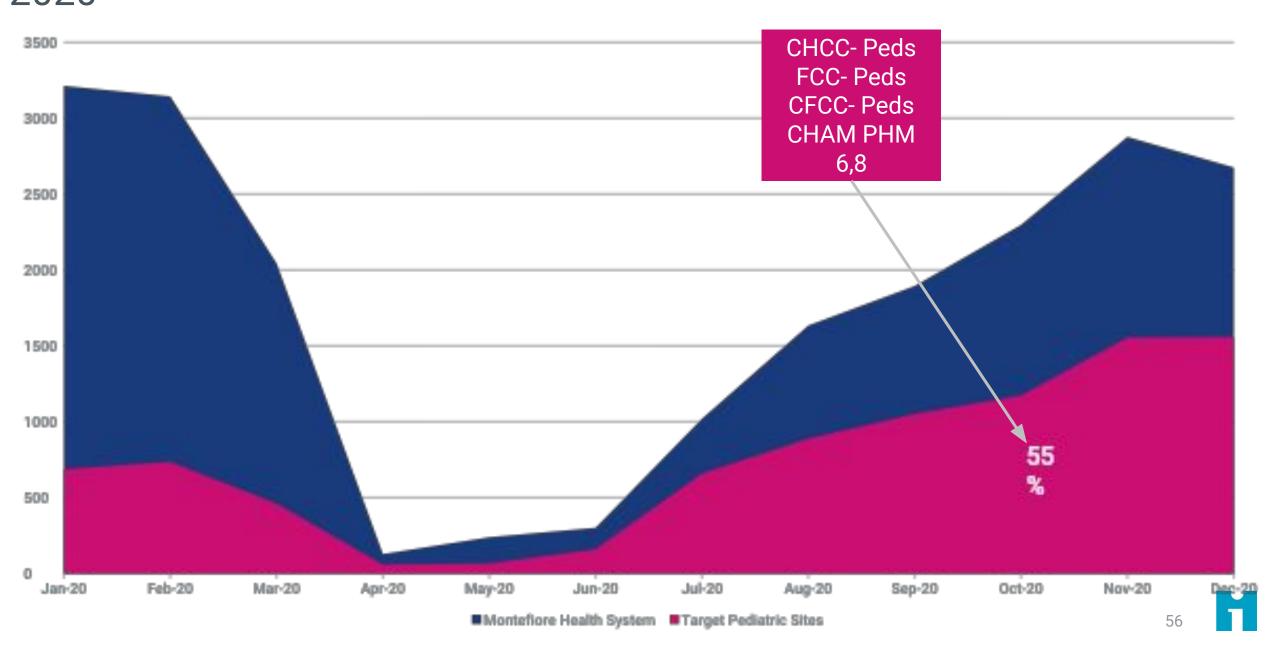
Activity	Definition	Transportation-Related Example
Awareness	Activities that identify the social risks and assets of defined patients and populations.	Ask people about their access to transportation.
Adjustment	Activities that focus on altering clinical care to accommodate identified social barriers.	Reduce the need for in-person health care appointments by using other options such as telehealth appointments.
Assistance	Activities that reduce social risk by providing assistance in connecting patients with relevant social care resources.	Provide transportation vouchers so that patients can travel to health care appointments. Vouchers can be used for ride-sharing services or public transit.
Alignment	Activities undertaken by health care systems to understand existing social care assets in the community, organize them to facilitate synergies, and invest in and deploy them to positively affect health outcomes.	Invest in community ride-sharing or time-bank programs.
Advocacy	Activities in which health care organizations work with partner social care organizations to promote policies that facilitate the creation and redeployment of assets or resources to address health and social needs.	Work to promote policies that fundamentally change the transportation infrastructure within the community.

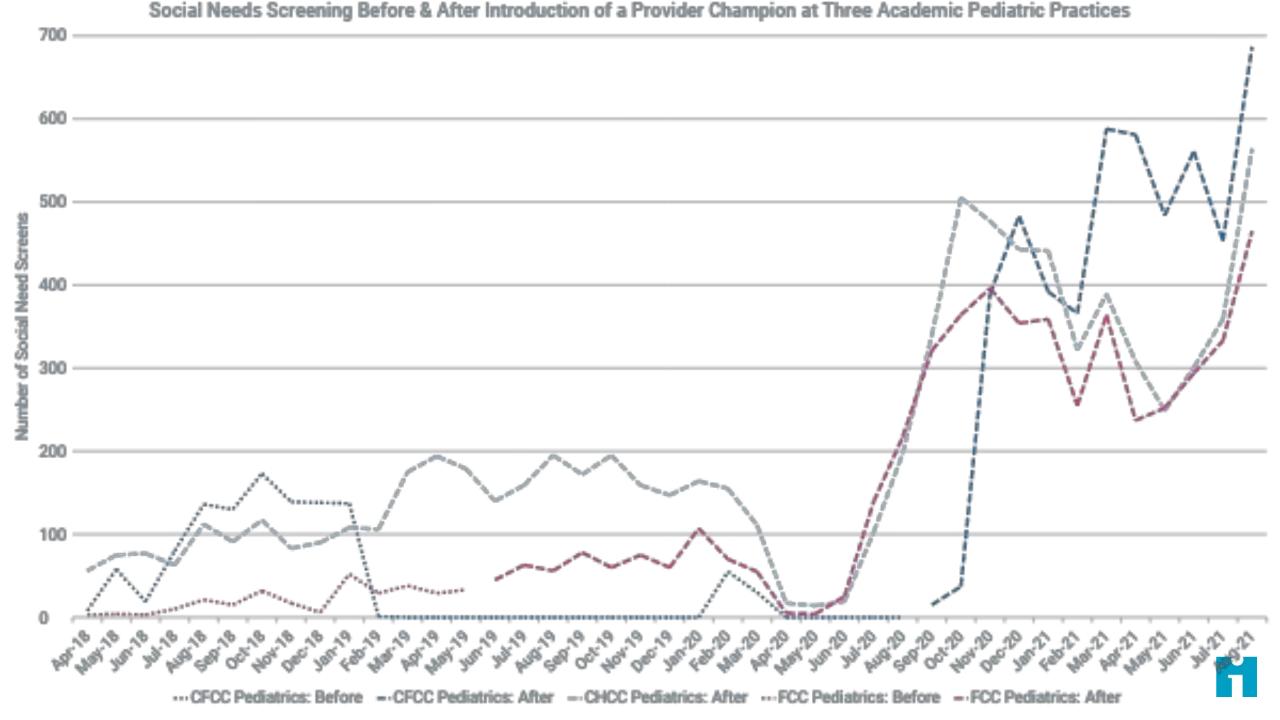
National Academies of Sciences, Engineering, and Medicine. 2019. *Integrating Social Care into the Delivery of Health Care: Moving Upstream to Improve the Nation's Health.* Washington, DC: The National Academies Press. https://doi.org/10.17226/25467.



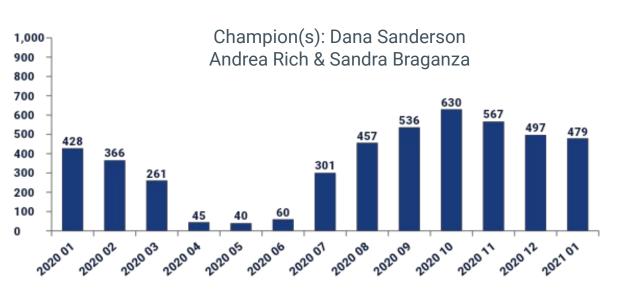


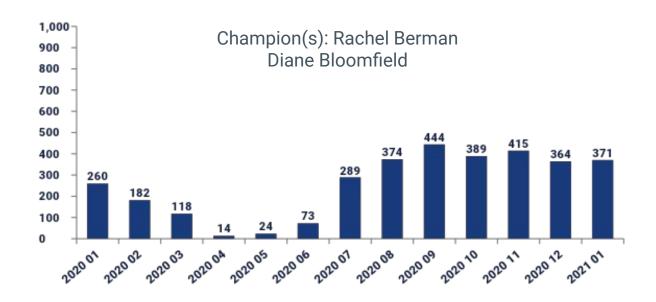
Academic Gen Pediatrics & CHAM: 55% of Screens in Q4 2020

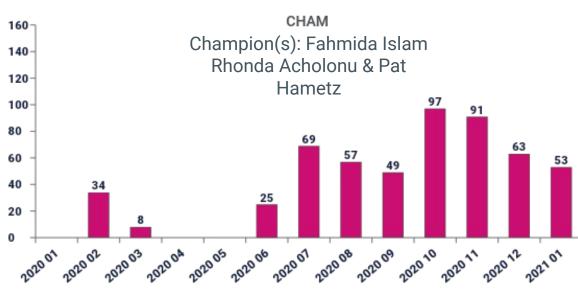


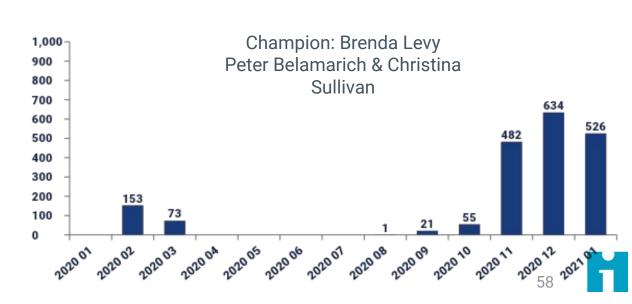


Early Adopters: Academic General Pediatrics & CHAM, 5334 Screens in Q4 2020

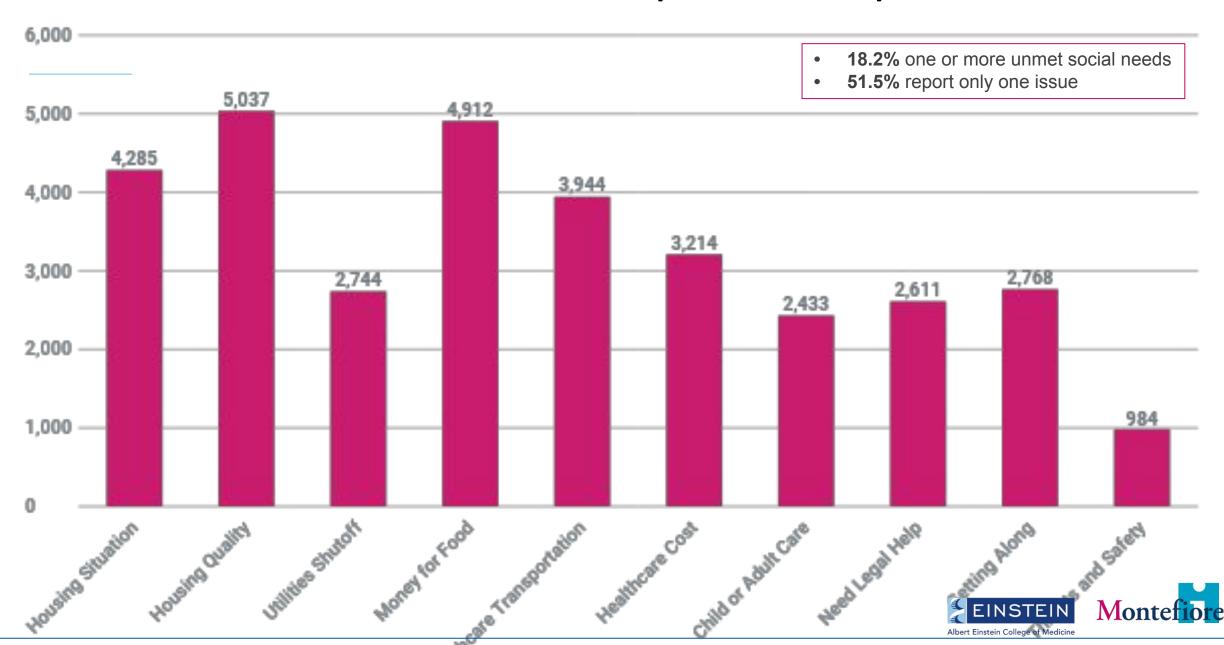


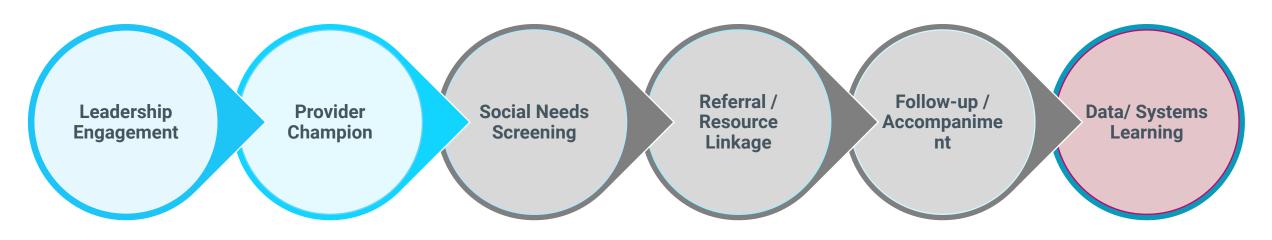






Social Needs Profile: 126,170 patients April 2018-2022





Leadership

-Medical & administrative buy-in -Integration within ongoing improvement

Provider(s)

-Adaption lead -Performance improvement

Screening

population (who, when, by whom, where)

-Clear target

Referrals

-Resources Lists -Service Directories -CHW/SW coverage

Follow-up

-Multiple outreach -Ongoing navigation & support

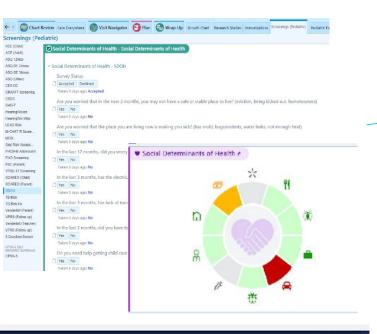
Data

-Dashboard(s) -Monthly data calls/exchanges

Standardized Workflow





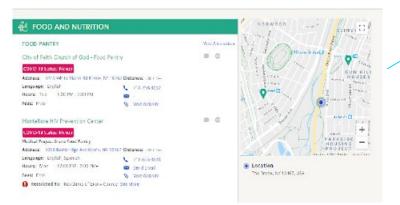


ASQ (Other)

LEAD Risk

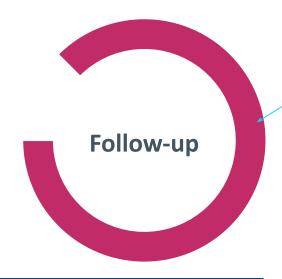
M Patients

k area with COVID-10 statuses to reflect shanging availability. Of the services updated, 8,68° are operational at this time. More information can be found i your community, submit on update to update@newpew.com.











		1237110
	Are you worried that in the next 2 months, you may not have a safe or stable place to live? (eviction, being kicked out, homelessness)	YN
常	Are you worried that the place you are living now is making you sick? (has mold, bugs/rodents, water leaks, not enough heat)	
ŏ	In the last 12 months, did you worry that your food could run out before you got money to buy more?	YN
	In the last 3 months, has the electric, gas, oil or water company threatened to shut off services to your home?	YN
	In the last 3 months, has lack of transportation kept you from medical appointments or getting your medications?	YN
	In the last 3 months, did you have to skip buying medications or going to doctor's appointments to save money?	YN
i k	Do you need help getting child care or care for an elderly or sick adult?	YN
1	Do you need legal help? (child/family services, immigration, housing discrimination, domestic issues, etc.)	YN
Ħ	Are you finding it so hard to get along with a partner, spouse, or family members that it is causing you stress?	YN
•	Does anyone in your life hurt you, threaten you, frighten you or make you feel unsafe?	YN

CHW REFERRAL

