

DATE: October 3, 2024. PRESENTED BY: DAVID HURTADO, ScD, SM

Before COVID-19, the connection between worker and patient safety was recognized in theory but not in practice. The pandemic underscored the fact that worker and patient safety are intimately interconnected.

Thus, addressing both worker and patient safety concerns in a coordinated manner is the way to go to revitalize safety efforts in the post-pandemic era.



Contents (~45 min)



Why integrating patient and worker safety makes sense for Critical Access Hospitals (CAHs)

Challenges for safety management in CAHs

Areas that intersect worker and patient safety

How the pandemic changed the safety
landscape



An empirical example towards integrating worker and patient safety

Evidence from pilot work

Next research steps



Oregon Institute of Occupational Health Sciences







Our mission

The Oregon Institute of Occupational Health Sciences is dedicated to health and safety in the workplace. Our mission is to promote wellness and prevent disease and disability among working Oregonians. We fulfill our mission through basic and applied research, education, and outreach.



Part I: Why integrating patient and worker safety makes sense for Critical Access Hospitals



Significance of Critical Access Hospitals (CAHs)

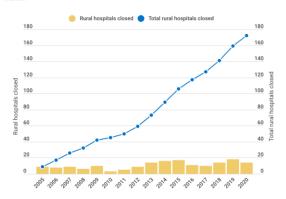
- CAHs play a crucial role in the healthcare system of rural areas.
- CMS designation with unique financial characteristics
- CAHs impact community well-being and public health



Challenges for rural CAHs

Rural Hospital Closures, 2005-2020

A record 18 rural hospitals closed in 2019. Experts fear that without more federal relief money for the coronavirus pandemic, 2020 will be worse. Through Aug. 14, 14 hospitals have closed in 2020.



Note: Eleven rural hospitals that closed between 2005 and 2020 have since reopened and are not included in this data.

Chart by Lydia Zuraw/Kaiser Health News

Source: Cecil G. Sheps Center for Health Services Research at the University of North Carolina-Chapel Hill







Safety and quality challenges for rural CAHs







WORKFORCE SHORTAGES



GEOGRAPHIC ISOLATION



LIMITED STAFF TRAINING AND EDUCATION



FRAGMENTED CARE COORDINATION





Safety and quality challenges for rural CAHs







INFRASTRUCTURE LIMITATIONS



COMPLEX PATIENT POPULATION



FINANCIAL STABILITY



MINIMAL RESEARCH PARTICIPATION



Opportunities for CAHs for new, creative approaches for safety management



SMALLER SCALE



CLOSE-KNIT TEAMS



FLEXIBLE STRUCTURE



QUICKER FEEDBACK



DIVERSE ROLES



FOCUS ON COMMUNITY NEEDS



REGULATORY FLEXIBILITY



SCALABILITY



Rationale for Safety Integration



Interactions between Employee Health and Safety or Patient Safety and Quality



Integration can help address overlapping risk factors or shared issues



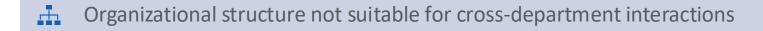
Critical access hospitals are in a great position for integration

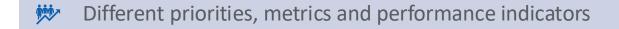


Integration unifies initiatives to create a stronger approach



Barriers to Safety Integration





Different resources and staffing can limit opportunities for shared initiatives

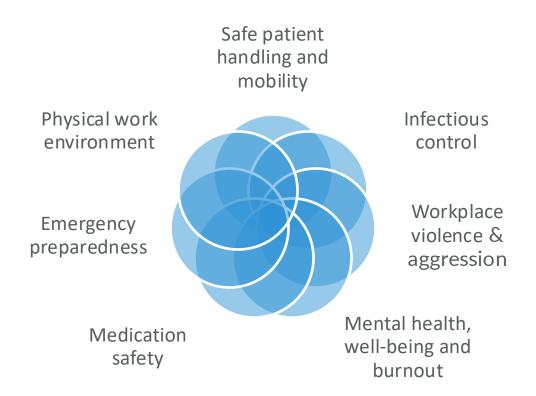
Living Cultural and professional differences

Communication barriers

Different regulatory requirements and compliance standards



Areas that intersect patient and worker safety





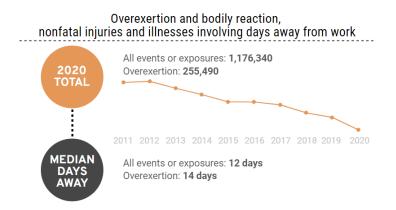
Work environment design







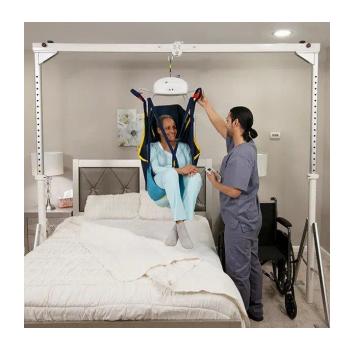
Patient-assist injuries and patient falls







Safe Patient Handling and Mobility



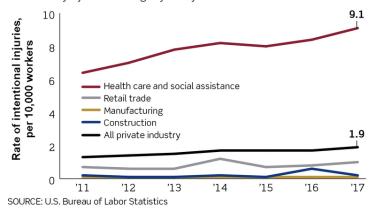




Workplace violence and aggression

Intentional worker injuries on the rise

Health care and social assistance workers experience intentional injuries by another person at far greater rates than the private industry overall. This includes only injuries involving days away from work.







Burnout Among Health Care Professionals:

A Call to Explore and Addresss This Underrecognized Threat to Safe, High-Quality Care



Health care professional burnout represents real suffering among people dedicated to preventing and relieving the suffering of others. The high prevalence of burnout among health care professionals is cause for concern because it appears to be affecting quality, safety, and health care system performance. Efforts are needed to address this growing problem.

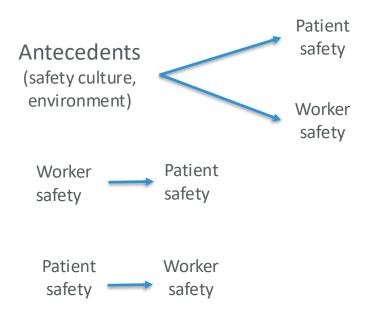
-Dyrbye et al., 2017





Types of integration

- 1. Similar conditions impact both worker and patient safety (e.g., safe patient handling, physical work environment)
- 2. Worker safety impacts patient safety (e.g., burnout)
- 3. Patient safety impacts worker safety (e.g., workplace aggression)





Roads to Safety Integration



Leadership Integration



Shared Goals and Metrics



Interdepartmental Training



Regular Communication



What are the leading efforts to integrate worker and patient safety?

- Centers for Disease Control and Prevention
- The Joint Commission
- Institute for Healthcare Improvement
- Agency for Healthcare Research and Quality





Improving Patient and Worker Safety

Opportunities for Synergy, Collaboration and Innovation





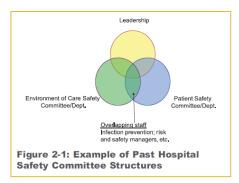


"Despite commonalities, the **patient safety movement** developed **separately** from the **worker safety movement** and typically involved different health care staff.

In large health care organizations, responsibility for health care worker safety traditionally fell to staff in occupational safety and health, employee health, infection prevention, and environmental services.

In small organizations, a single staff person often performed many of these functions. Responsibility for patient safety, on the other hand, typically was the domain of the quality management or performance improvement staff, often engaging medical staff leadership and risk management.

This separation of patient and worker safety can result in "<u>departmental silos</u>" of staff competing for leadership attention and resources as well as fragmentation, duplication of effort, inefficiencies, and additional expense" (p. 26, 2012)





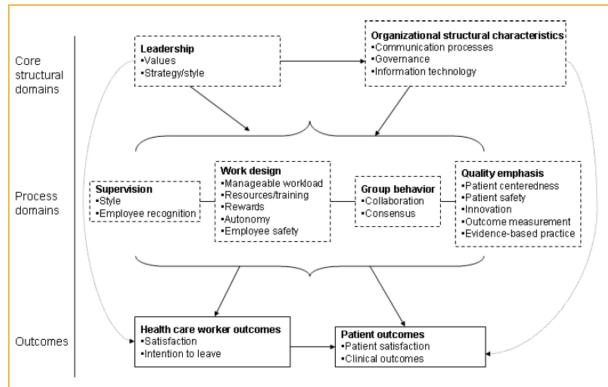


Figure 1-2: An Integrative Model of Health Care Working Conditions on Organizational Climate and Safety

Boxes outlined with dotted lines represent domains of organizational climate. Boxes outlined with solid lines represent outcomes. Core domains are in bold; subconstructs are bulleted. The dotted arrows connecting core structural domains represent direct effects on outcomes, which are mediated by the process domains.

Source: Stone PW, et al. Organizational climate of staff working conditions and safety—An integrative model. In: Henriksen K, et al. editors. Advances in Patient Safety: From Research to Implementation (Volume 2: Concepts and Methodology). Rockville (MD): Agency for Healthcare Research and Quality (US); 2005 Feb. PubMed PMID: 212498253.





2023 Critical Access **Hospital National Patient Safety Goals**

Identify patients correctly

NPSG.01.01.01

Use at least two ways to identify patients. For example, use the patient's name and date of birth. This is done to make sure that each patient gets the correct medicine and treatment.

Improve staff communication

NPSG.02.03.01

Get important test results to the right staff person on time.

Use medicines safely

NPSG.03.04.01

Before a procedure, label medicines that are not labeled. For example, medicines in syringes, cups and basins. Do this in the area where medicines and supplies are set up.

NPSG.03.05.01

Take extra care with patients who take medicines to thin their blood.

NPSG.03.06.01

Record and pass along correct information about a patient's medicines. Find out what medicines the patient is taking. Compare those medicines to new medicines given to the patient. Give the patient written information about the medicines they need to take. Tell the patient it is important to bring their up-to-date list of medicines every time they visit a doctor.

Use alarms safely

NPSG.06.01.01

Make improvements to ensure that alarms on medical equipment are heard and responded to on time.

Prevent infection

NPSG.07.01.01

Use the hand cleaning guidelines from the Centers for Disease Control and Prevention or the World Health Organization. Set goals for improving hand cleaning.

Improve health care equity

NPSG.16.01.01

Improving health care equity is a quality and patient safety priority. For example, health care disparities in the patient population are identified and a written plan describes ways to improve health care equity.

Prevent mistakes in surgery

UP01.01.01

Make sure that the correct surgery is done on the correct patient and at the correct place on the patient's body.

UP01.02.01

Mark the correct place on the patient's body where the surgery is to be done.

UP:01.03.01

Pause before the surgery to make sure that a mistake is not being made.





The National Healthcare Safety Network (NHSN) Manual

HEALTHCARE PERSONNEL SAFETY COMPONENT PROTOCOL:

Healthcare Personnel Exposure Module

Table of Contents

Chapter	Title				
1	Introduction to the Healthcare Personnel Safety Component				
2	Healthcare Personnel Safety Reporting Plan				
3	Blood/Body Fluid Exposure Options (With and Without Exposure Management)				
4	Influenza Exposure and Treatment Option				



National Healthcare Safety Network (NHSN)

Patient Safety Component Manual

Chapter 1: National Healthcare Safety Network (NHSN) Overview

Chapter 2: Identifying Healthcare-associated Infections (HAI) for NHSN Surveillance

Chapter 3: Patient Safety Monthly Reporting Plan and Annual Surveys

<u>Chapter 4: Bloodstream Infection Event (Central Line-Associated Bloodstream Infection and</u> non- central line-associated Bloodstream Infection)

Chapter 5: Central Line Insertion Practices (CLIP) Adherence Monitoring

<u>Chapter 6: Pneumonia (Ventilator-associated [VAP] and non-ventilator-associated Pneumonia [PNEU]) Event</u>

Chapter 7: Urinary Tract Infection (Catheter-Associated Urinary Tract Infection [CAUTI] and non- catheter-associated Urinary Tract Infection [UTI]) and Other Urinary System Infection (USI) Events

Chapter 9: Surgical Site Infection (SSI) Event

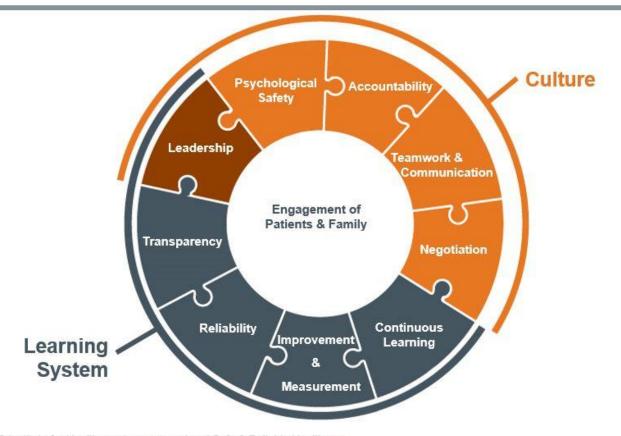
Chapter 10: Ventilator-Associated Event (VAE)

Chapter 11: Pediatric Ventilator-Associated Event (pedVAE)

Chapter 12: Multidrug-Resistant Organism & Clostridium difficile Infection (MDRO/CDI) Module

Chapter 14: Antimicrobial Use and Resistance (AUR)

Framework for Safe, Reliable, and Effective Care









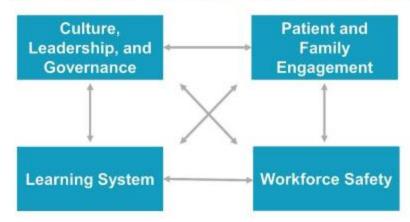




A Total Systems Approach to Safety

The Institute for Healthcare Improvement convened the National Steering Committee for Patient Safety (NSC) and charged the NSC with the creation of the first US national action plan for patient safety.

Figure 1. National Action Plan Four Foundational Areas: Interdependent Relationships



The foundational areas are prioritized as essential to create total systems safety and establish the necessary conditions for delivering safe care and preventing harm.





Topics v Programs v

Research v

Data & Analytics 🗸

Tools v

Funding & Grants 🗸

News v

About ~

Home > National Action Alliance for Patient and Workforce Safety

for Patient and Workforce Safety



Overview of the National Action Alliance for Patient ar Workforce Safety

Vision, Mission, and Aims.

Upcoming Webinars

Upcoming and past webinar information and materials.

Safety Tools and Other Resources

Additional resources on safety from federal agencies.

Back to To

NATIONAL ACTION ALLIANCE for Patient and Workforce Safety

Vision

Safe care everywhere, zero preventable harm for all.

Mission

A total systems approach to safety that is focused on culture, leadership, and governance; patient and family engagement; workforce safety and well-being; and learning health system development toward our vision of zero preventable harm.

Commitment

To support the National Action Alliance's vision, we commit to:

- Championing patient and workforce safety. Designating an Executive Lead on safety to directly interface with the highest-ranking person in the organization.
- Performing an organizational safety self-assessment and implementing a safety plan that addresses identified gaps, including in healthcare equity.
- Empowering the patient's voice in all aspects of safety.
- 4. Strengthening safety competencies for all team members.
- Collaborating when it comes to safety. Transparently sharing progress on safety initiatives and lessons learned and leveraging and contributing to safety resources as an active participant of the National Action Alliance.





SOPS Hospital Survey 2.0 (released 2019)

Topics Covered by the SOPS Hospital Survey 2.0 Composite Measures: A composite measure is a grouping of two or more survey items that assess the same area of culture. The 10 composite measures and 32 survey items assessed in the SOPS Hospital Survey 2.0 are: Teamwork (3 items) . Staffing and Work Pace (4 items) Organizational Learning - Continuous Improvement (3 items) Response to Error (4 items) Supervisor, Manager, or Clinical Leader Support for Patient Safety (3 items) Communication About Error (3 items) Communication Openness (4 items) · Reporting Patient Safety Events (2 items) · Hospital Management Support for Patient Safety (3 items) Handoffs and Information Exchange (3 items) Additional Measures: In addition to the composite measures, single item measures included assess: · Number of events reported (1 item) · Patient safety rating (1 item) Background questions (4 items)

SECTION B: Your Supervisor, Manager, or Clinical Leader

How much do you agree or disagree with the following statements about your immediate supervisor, manager, or clinical leader?

		Strongly Disagree	Disagree ▼	Neither Agree nor Disagree ▼	Agree ▼	Strongly Agree	Apply of Don't Know
1.	My supervisor, manager, or clinical leader seriously considers staff suggestions for improving patient safety	□1	\square_2	Пз	□ 4	□ ₅	□9
2	My supervisor, manager, or clinical leader wants us to work faster during busy times, even if it means taking shortcuts	□1	□ 2	Пз	□ 4	□ 5	□ 9
3	My supervisor, manager, or clinical leader takes action to address patient safety concerns that are brought to their attention	□ 1	□ 2	Пз	□ 4	□ 5	□ 9





SOPS® Workplace Safety Supplemental Item Set for the SOPS Hospital Survey

Language: English

Composite Measures: A composite measure is a grouping of two or more survey items that assess the same area of culture. The composite measures in this supplemental item set are listed below along with the internal consistency reliability scores (Cronbach's alpha)¹.

- Protection From Workplace Hazards (3 items) (Cronbach's alpha = 0.87)
- Moving, Transferring, or Lifting Patients (3 items) (Cronbach's alpha = 0.83)
- Addressing Workplace Aggression From Patients or Visitors (2 items) (Cronbach's alpha = 0.89)
- Workplace Aggression Policies, Procedures, and Training (2 items) (Cronbach's alpha = 0.67)
- Supervisor, Manager, or Clinical Leader Support for Workplace Safety (3 items) (Cronbach's alpha = 0.92)
- Hospital Management Support for Workplace Safety (3 items) (Cronbach's alpha = 0.96)

Additional Measures: Other measures assess:

- Addressing Verbal Aggression From Providers or Staff (1 item)
- Workplace Safety and Reporting (1 item)
- Work Stress/Burnout² (1 item)
- Overall Rating on Workplace Safety for Providers and Staff (1 item)
- Background Questions: (2 items)
 - Job Satisfaction
 - Intent to Leave



Benefits of Safety Integration

- Enhanced overall safety culture
- Proactive risk management
- Enhanced Collaboration and Communication
- Better resource utilization
- Community trust and reputation
- Cost reduction
- Q Evidence-based improvements
- Improved outcomes



Part I: Conclusions

Healthcare institutions have recognized the conceptual interconnection between worker and patient safety for at least 10 years.

Several areas intersect worker and patient safety, chiefly safe patient handling and mobility

Empirical efforts are more recent, with new surveys regarding this interconnection

Part II: Empirical example of a program aimed at integrating worker and patient safety in Critical **Access Hospitals**





What gaps is this program addressing?



What is new?



What is the evidence?



What is the expected impact?







Integration of worker and patient safety



Leadership commitment



Safety culture



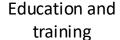
Risk assessment and hazard identification



Policies and procedures









Communication and collaboration.



Incident reporting and analysis

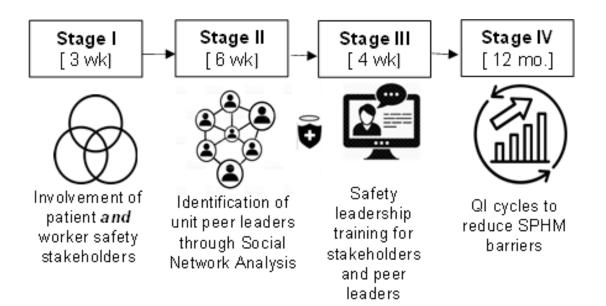


Continuous improvement.



Community engagement









SAINTS PROGRAM SAFETY INTEGRATION STEWARDS





Front-line workers

"Champions" or peer leaders

Informal, social influence

More realistic, integrative view and input of the safety situation/practices

Safety areas to Integrate

Integration of tactics and strategies that reduce the risk of a patientassist injury or a patient fall



Focus on Safe Patient Handling and Mobility

Environmental conditions (e.g., lifts, devices, surfaces, alarms)

Procedures (e.g., mobility algorithms, ambulation, communication, medications)

Training



How to identify peer-leaders

Self-nomination (volunteers)

Supervisor-nomination

Peer-nomination



How to identify peer leaders

Occupational Health Science https://doi.org/10.1007/s41542-018-0026-4

BRIEF RESEARCH REPORT



Identifying Safety Peer Leaders with Social Network Analysis

David A. Hurtado¹ · Lisset M. Dumet¹ · Samuel A. Greenspan¹ · Yaritza I. Rodríguez¹ · Gregory A. Heinonen¹

Occupational Health Science

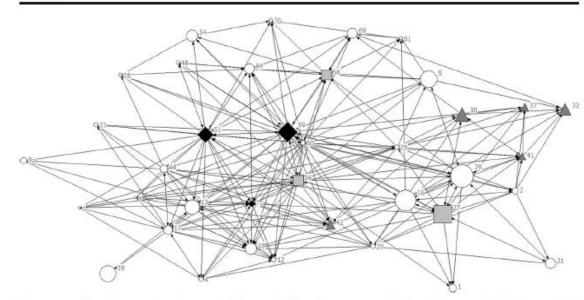
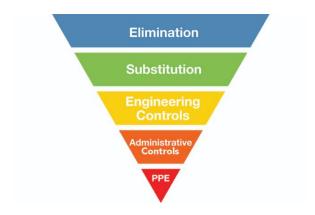


Fig. 1 Sociogram depicting peer-based advice-seeking nominations about safe patient handling in a sample of patient-care workers (n = 38). The head of the arrow signals the direction of the nomination. Size of the figures reflect averages of self-reported equipment use. Peer leaders identified with SNA are shown in black diamonds (n = 3). Peer leaders identified by supervisors are illustrated with grey triangles (n = 3). Workers identified by both SNA and supervisors are depicted with grey squares (n = 5)

Pilot program effectiveness





	Problem identified	Action plan
1	No practical safe patient handling training	Roll-out of mandatory training for all unit employees
2	Messy storage room	Tidying the storage room
3	No centralized way to communicate safety concerns	Increase reporting of safety issues using the Good Catch system
4	Differences in safe patient handlings skills among new hires	Demonstration of skills to preceptors by new hires



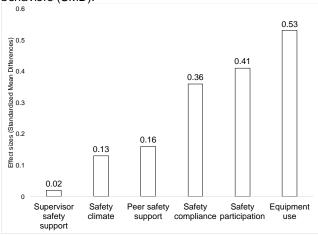
Pilot program effectiveness

The Joint Commission Journal on Quality and Patient Safety 2020; 46:608-616

Use of Champions Identified by Social Network Analysis to Reduce Health Care Worker Patient-Assist Injuries

David A. Hurtado, ScD; Samuel A. Greenspan, MPH; Lisset M. Dumet, MBA; Gregory A. Heinonen, BS, CNA

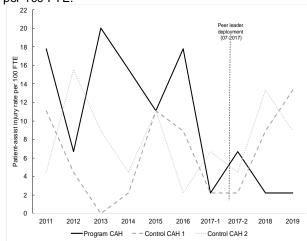
Pilot program 12-month effects on safety perception and Pilot program 12-month effects on safety reporting. behaviors (SMD).





11 to 28 entries

Effectiveness on incidence rates of patient-assist injuries per 100 FTE.



11.2 fewer injuries per 100 FTE

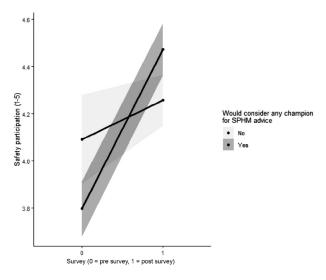


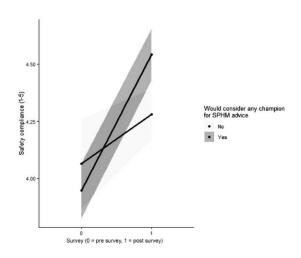
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Taking the SAINTS to the nextlevel



Training

Integration of patient and worker safety

Overlapping safety management

Basics of QI/root cause analysis

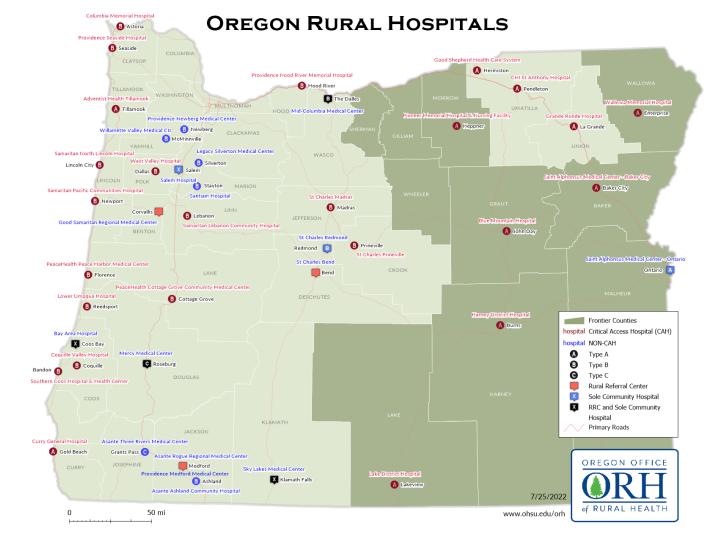
Leadership



Frequent encounters

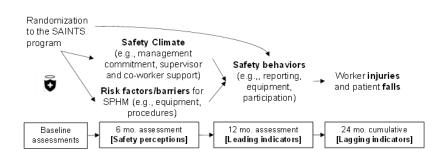
Monthly check-ins
Quarterly plans

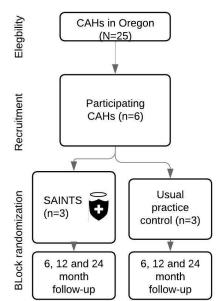














Part II: Conclusions: integrating worker and patient safety makes sense

- Interconnectedness of worker and patient safety.
- Limited resources and workforce.
- Staff recruitment and retention
- Improved moral and job satisfaction
- Compliance with regulation and accreditation standards
- Financial benefits
- Community trust and reputation



Figure 2-1: Example of Past Hospital Safety Committee Structures



Acknowledgments

- SAINTS team: Kendall Korness-Dunlop, Cort Cox, Chrystal Barnes.
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- SAINTS partners: Stacie Rothwell at Oregon Office of Rural Health



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