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Reflexive spaces in patient safety improvement

NSQH 2024, Oslo

Acknowledgements

- PhD students, postdocs, collaborators, mentors, leaders, co-researchers, and colleagues
- Resilience in Healthcare Research Programme, colleagues, and partners
- Safe-Lead project, colleagues, and partners
- Research Council of Norway



Background

- Patient safety as a learning process
- Learning from successful outcomes and processes to be repeated
- Learning from unsuccessful outcomes to avoid reoccurrence
- Reflection is key for learning individually and in organizations



From An organisation with a memory to Learning Health Systems?









An organisation with a memory

Report of an expert group on learning from adverse events in the NHS chaired by the Chief Medical Officer

Received: 8 November 2020 Revised: 3 March 2021 Accepted: 4 March 2021

BMJ Open Identifying requisite learning health system competencies: a scoping review

Paige L McDonald , Jessica Phillips, Kenneth Harwood, Joyce Maring, Philip J van der Wees¹

skills and attitudes) and system competencies (capacities,

literature in relation to operationalising LHS.

team members.

Methods A scoping review was conducted with

descriptive and thematic analysis to identify and mag competencies of LHS for individuals/patients, health

system workers and systems. Articles until April 2020

were included based on a systematic literature search

and selection process. Themes were developed using a

consensus process until agreement was reached among

Results Eighty-nine articles were included with most

studies conducted in the USA (68 articles). The largest

number of publications represented competencies at

competencies. Themes identified at the individual/patient

level were knowledge and skills to understand and share

information with an established system and the ability

to interact with the technology used to collect data.

Themes at the health system worker level were skills

in evidence-based practice, leadership and teamwork

skills, analytical and technological skills required to use

a 'digital ecosystem', data-science knowledge and skill

LHS require a specific set of competencies. Themes

culture and climate supporting ongoing learning.

standardisation: integration of data and workflow; and

competencies within LHS and the system capabilities

of LHS provide a solid base for the further development

and evaluation of LHS. International collaboration for

stimulating LHS will assist in further establishing the

Since first proposed by Ethered

knowledge base for LHS.

and self-reflective canacity. Researchers embedded within

the system level, followed by health system worker

Objectives | Learning health systems (LHS) integrate

Phillips J. Harwood K. et al. knowledge and practice through cycles of continuous nealth system competencies quality improvement and learning to increase healthcare a scoping review. BMJ Open 2022;12:e061124. doi:10.1136/ frameworks and models. Our aim is to identify and mjopen-2022-061124 describe the requisite individual competencies (knowledge

Promublication history and dditional supplemental materia or this paper are available online. To view these files, lease visit the journal online bmiopen-2022-061124)

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Department of Health Human Function The George Washington University, Washington, District of olumbia, USA Rehabilitation and IQ

STRENGTHS AND LIMITATIONS OF THIS STUDY

- Review of 13 years worth of publications relating to
- learning health system competencies.
- The following publications were excluded from this conference proceedings.

concept has spread globally with public tions focusing on process models, mic to meso to macro system levels of analysi infrastructure requirements to achieve suc systems, the values underlying the cultura shift required to achieve such systems a case studies exploring the application the concept within healthcare.23 However there is a paucity of evidence indicating th effectiveness of LHS across levels of ana vsis. Moreover, there is a need for increainderstanding of the requisite competence and capabilities across levels of a system that omote learning and continuous quali

Conceptualisations of LHS have increase in their specificity over time. Initially, the Instute of Medicine envisioned LHS as 'system where science, informatics, incentives, as culture are aligned for continuous improv ment and innovation with best practice seamlessly embedded in the delivery proces and new knowledge captured as an int gral by-product of the delivery experience (pix). Friedman and colleagues further specified the conceptualisation by defining each component word. 'Learning'

- Identification of requisite competencies across multiple levels of analysis.
- Review includes only articles published in English and published between January 2007 and April

multiple frameworks and models.1 The LHS

Chiara Pomare¹ | Zeyad Mahmoud¹ | Alex Vedovi^{1,2} | Louise A. Ellis^{1,2} |

RESEARCH REPORT

- Gilbert Knaggs^{1,2} | Carolynn L. Smith^{1,2} | Yvonne Zurynski^{1,2} |

Learning health systems: A review of key topic areas and

earning Health Systems

Jeffrey Braithwaite 1,2 0

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bibliometric trends

Chiara Pomare, Australian Institute of Health Innovation, Macquarie University, Sydney, New South Wales 2109, Australia.

National Health and Medical Research Council Grant/Award Numbers: 9100002, APP1176620AO6

Introduction: The emergent field of learning health systems (LHSs) has been rapidly evolving as the concept continues to be embraced by researchers, managers, and clinicians. This paper reports on a scoping review and bibliometric analysis of the LHS literature to identify key topic areas and examine the influence and spread of recent research. Methods: We conducted a scoping review of LHS literature published between January 2016 and May 2020. The authors extracted publication data (eg. journal. country, authors, citation count, keywords) and reviewed full-texts to identify; type of study (empirical, non-empirical, or review), degree of focus (general or specific), and the reference used when defining LHSs.

Results: A total of 272 publications were included in this review. Almost two thirds (65.1%) of the included articles were non-empirical and over two-thirds (68.4%) were from authors in the United States. More than half of the publications focused on specific areas, for example: oncology, cardiovascular care, and genomic medicine. Other key tonic areas included; ethics research quality improvement, and electronic health records. We identified that definitions of the LHS concept are converging; however, many papers focused on data platforms and analytical processes rather than organisational and behavioural factors to support change and learning activities. Conclusions: The literature on LHSs remains largely theoretical with definitions of LHSs focusing on technical processes to reuse data collected during the clinical process and embedding analysed data back into the system. A shift in the literature to empirical

LHS studies with consideration of organisational and human factors is warranted.

bibliometrics, healthcare, learning health systems, learning healthcare system

INTRODUCTION

most developed countries less than two-thirds of healthcare delivered substantial efforts and resources dedicated to improving the safety

is in line with evidence-based guidelines (60%); one third of care is some form of waste (30%) and one tenth (10%) of it is associated with Contemporary health systems are not fit for purpose. Even in the an adverse event. These numbers have persisted for decades despite The NEW ENGLAND IOURNAL of MEDICINE

SPECIAL ARTICLE

The Safety of Inpatient Health Care

David W. Bates, M.D., David M. Levine, M.D., M.P.H. Hojjat Salmasian, M.D., Ph.D., M.P.H., Ania Syrowatka, Ph.D., David M. Shahian, N. Stuart Lipsitz, Sc.D., Jonathan P. Zebrowski, M.D., M.H.Q.S. Laura C. Myers, M.D., M.P.H., Merranda S. Logan, M.D., M.P.H., Christopher G. Roy, M.D., M.P.H., Christine Jannaccone, M.P.H., Michelle I., Erits, F. Lynn A. Volk, M.H.S., Sevan Dulgarian, B.S., B.A., Mary G. Amato, Pharm.D., M.P. Heba H. Edrees, Pharm.D., Luke Sato, M.D., Patricia Folcarelli, Ph.D., R.N. Jonathan S. Einbinder, M.D., M.P.H., Mark E. Reynolds, B.A., and Elizabeth Mort, M.D., M.P.H.

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neral Internal Medicine (E.M.), Mas

rolled Risk Insurance Company and

achusetts General Hospital, and the

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N Engl I Med 2023;388:142-53.

eneral Internal Medicine and Primary

d T.H. Chan School of Public Health

Women's Hospital (D.W.R. D.M.L. H.S.

Adverse events during hospitalization are a major cause of patient harm, as de mented in the 1991 Harvard Medical Practice Study. Patient safety has chan substantially in the decades since that study was conducted, and a more cur assessment of harm during hospitalization is warranted.

We conducted a retrospective cohort study to assess the frequency, preventability, severity of patient harm in a random sample of admissions from 11 Massachus hospitals during the 2018 calendar year. The occurrence of adverse events was sessed with the use of a trigger method (identification of information in a med record that was previously shown to be associated with adverse events) and f review of medical records. Trained nurses reviewed records and identified adsions with possible adverse events that were then adjudicated by physicians, confirmed the presence and characteristics of the adverse events.

the Risk Management Foundation of the RESULTS Harvard Medical Institutions (L.S., P.F., In a ran

In a random sample of 2809 admissions, we identified at least one adverse ever 23.6%. Among 978 adverse events, 222 (22.7%) were judged to be preventable 316 (32.3%) had a severity level of serious (i.e., caused harm that resulted in subs tial intervention or prolonged recovery) or higher. A preventable adverse event curred in 191 (6.8%) of all admissions, and a preventable adverse event with a se ity level of serious or higher occurred in 29 (1.0%). There were seven deaths, of which was deemed to be preventable. Adverse drug events were the most comadverse events (accounting for 39.0% of all events), followed by surgical or o procedural events (30.4%), patient-care events (which were defined as events ass ated with nursing care, including falls and pressure ulcers) (15.0%), and health co associated infections (11.9%).

Adverse events were identified in nearly one in four admissions, and approxima one fourth of the events were preventable. These findings underscore the im

Advancement in the field?



without destroying them.

Communities of Practice: The Organizational Frontier

by Etienne C. Wenger and William M. Snyder

and most companies work assiduously to capitalize on that fact. They use cross-functional teams, customer- or product-focused business units, and work groups—to name just a few organizational forms—to capture and spread ideas and knowhow. In many cases, these ways of organizing are very effective, and no one would argue for their demise. But a new organizational form is emerging that promises to complement existing structures and radically galvanize knowledge sharing, learning.

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Practice-based Theorizing on Learning and Knowing in Organizations

Silvia Gherardi Trento University



Issue 3

Article 6

VOL11

FALLIBLE HUMANS IN INFALLIBLE SYSTEMS? LEARNING FROM ERRORS IN HEALTH CARE

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+ + +
EUROPEAN SECTION

The Organizational Learning of Safety in Communities of Practice

SILVIA GHERARDI University of Trento, Italy

DAVIDE NICOLINI
Tavistock Institute





Key features

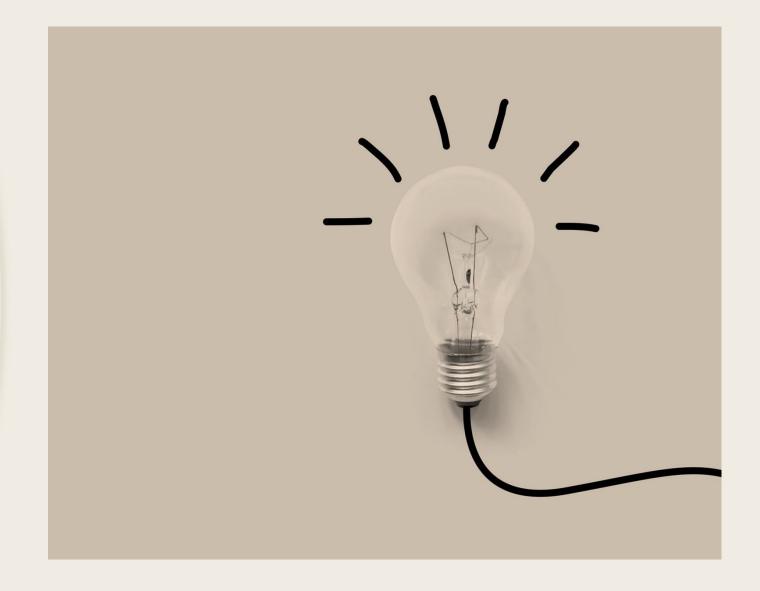
- Learning as a collective process
- Learning through reflection
- Structures, leadership, and culture for learning
- Regulation to support learning
- Learning across system interfaces and levels



Learning is part of everyday work, but it is not just happening — or always as planned



Reflexive spaces - What are they?



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Article

David E. Gray

University of Surrey, UK

Facilitating Management Learning
Developing Critical Reflection Through Reflective Tools

1999, Vol. 24, No. 3, 522-537.

AN ORGANIZATIONAL LEARNING FRAMEWORK: FROM INTUITION TO INSTITUTION

MARY M. CROSSAN
HENRY W. LANE
RODERICK E. WHITE
Richard Ivey School of Business

Although interest in organizational learning has grown dramatically in recent years, a general theory of organizational learning has remained elusive. We identify renewal of the overall enterprise as the underlying phenomenon of interest and organizational learning as a principal means to this end. With this perspective we develop a framework for the process of organizational learning, presenting organizational learning as four processes—intuiting, interpreting, integrating, and institutionalizing—linking the individual, group, and organizational levels.

Management Learning
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Vol. 33(1): 35−61

Ann L. Cunliffe

California State University, Hayward, USA

Reflexive Dialogical Practice in Management Learning



The current issue and full text archive of this journal is available at www.emeraldinsight.com/0953-4814.htm

The "clinalyst"

The "clinalyst"

Institutionalizing reflexive space to realize safety and flexible systematization in health care

175

Rick Iedema University of Technology Sydney, Sydney, Australia, and Katherine Carroll University of Sydney, Sydney, Australia





TIPS FOR SUCCESS

OPEN

Reflexive Spaces: Leveraging Resilience Into Healthcare Regulation and Management

Siri Wiig, PhD, MSc,* Karina Aase, PhD,* and Roland Bal, PhD†

ealthcare is increasingly seen as a complex, adaptive system in which resilience is a key factor in creating patient safety. A need exists to understand how organizations are able to perform with success under varying conditions, that is, to be resilient. So far, the attention in resilience research has been on the sharp end of the system, such as emergency departments and clinicians' adaptation of work practices to constantly varying conditions. However, we have limited knowledge about the role of regulators and managers in creating and supporting environments that cultivate resilience. In this article, we argue that (a) regulators and managers need to understand and acknowledge reflexivity as a foundation for resilience in healthcare organizations and that (b) creating and supporting reflexive spaces are a key for leveraging resilience into healthcare regulation and management.





Reflexive spaces

Physical or virtual platforms in which reflexive dialogical practice occurs between people.

The reflexive dialogical practice is key in learning processes, because it bridges tacit and explicit knowledge.

(Cunliffe 2002; Gray 2007; Wiig et al 2020)

Reflexive spaces

 Can bring people together to reflect on current challenges, adaptations, and needs in work practice.

 Are forums inviting accountability and feedback on concrete practices and effects.

• Are **collective** and mobilize experiences of relevant actors.





Key projects

- Resilience in Healthcare –
 developing, implementing, and
 evaluating a theoretical and
 practical resilience in healthcare
 framework (2018-2024)
- **SAFE-LEAD** Leadership intervention in nursing homes and homecare (2016-2023)



Open Access Protocol

BMJ Open Improving quality and safety in nursing homes and home care: the study protocol of a mixed-methods research design to implement a leadership intervention

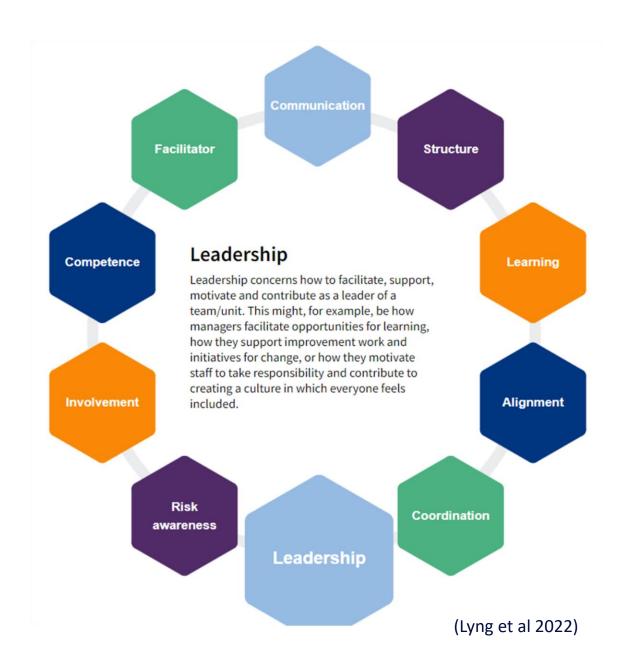
Siri Wiig, ¹ Eline Ree, ¹ Terese Johannessen, ¹ Torunn Strømme, ¹ Marianne Storm, ¹ Ingunn Aase, ¹ Berit Ullebust, ² Elisabeth Holen-Rabbersvik, ^{1,3,4} Line Hurup Thomsen, ⁵ Anne Torhild Sandvik Pedersen, ⁶ Hester van de Bovenkamp, ⁷ Roland Bal, ⁷ Karina Aase ¹

Open access Protocol

BMJ Open Resilience in Healthcare (RiH): a longitudinal research programme protocol

Karina Aase ¹ ,¹ Veslemøy Guise ¹ ,¹ Stephen Billett,² Stephen Johan Mikal Sollid,^{1,3} Ove Njå,⁴ Olav Røise ¹ ,^{1,5} Tanja Manser,⁶ Janet E Anderson,^{1,7} Siri Wiig¹

Resilience capacities



Learning tools' principles and logic models

Haraldseid-Driftland et al. BMC Health Services Research https://doi.org/10.1186/s12913-023-09653-8

2023) 23:646

BMC Health Services Research

RESEARCH

Open Access

Learning does not just happen: establishing learning principles for tools to translate resilience into practice, based on a participatory approach



Cecille Haraldseid-Driftland^{1*}, Hilda Bø Lyng¹, Veslemøy Guise¹, Hilde Valen Waehle^{1,2}, Lene Schibevaag¹, Eline Ree¹, Birte Fagerdal¹, Ruth Baxter², Louise A. Ellis⁴, Jeffrey Braithwaite⁴ and Siri Wiig¹

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Collaborative elements

- Use a collaborative approach
- Create collaboration across levels, stakeholders, and contexts

Practical elements

- High flexibility that accomodate time and place
- Ensure usability and easy access
- Highly relevant for context

Content elements

Principles

- Create space for reflection
- Create awareness of adaptive capacities
- · Share examples of good practice

Scenario



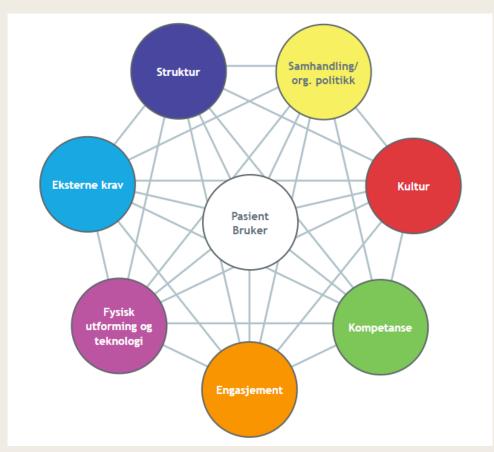
rih.uis.no/en

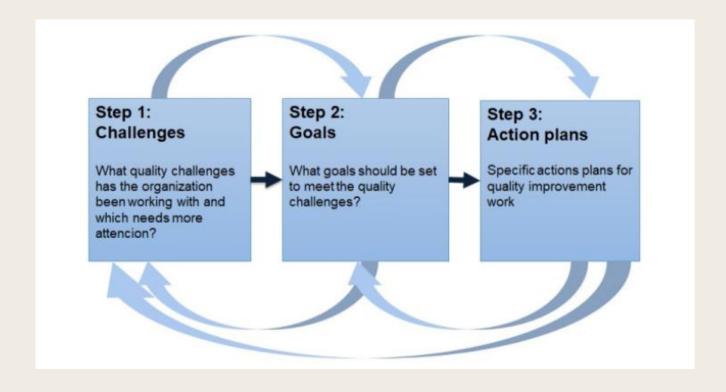
Resilience in Healthcare

Welcome to the Resilience in Healthcare reflection tool - learning from what goes well

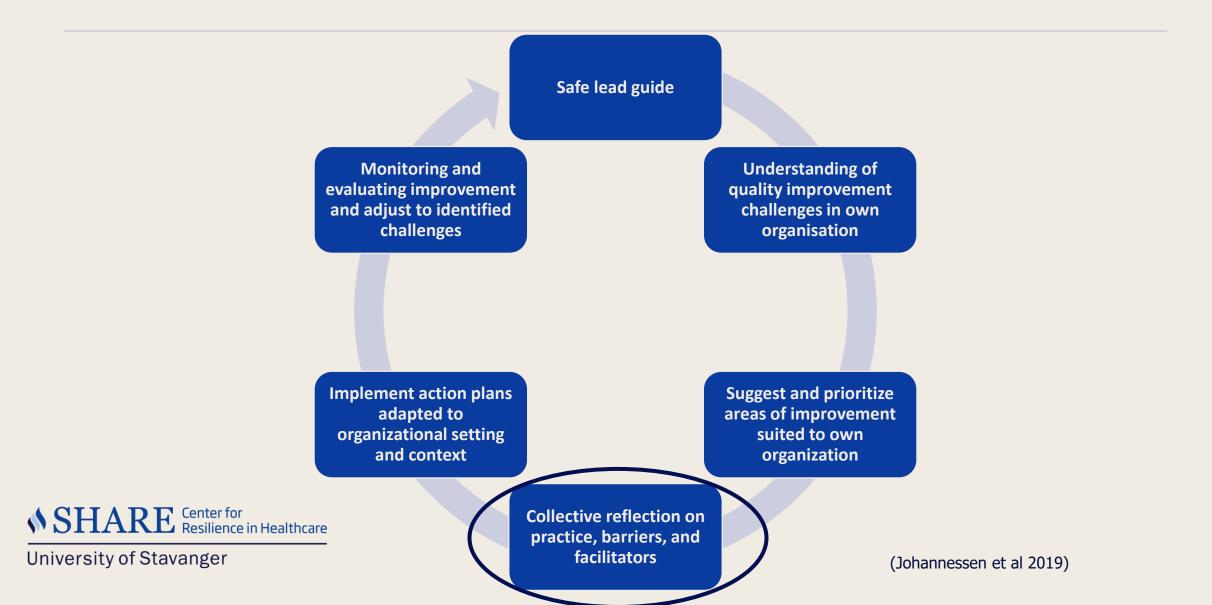


Safe-Lead Guide





Safe-Lead logic model emphasising reflexive spaces in work practice



Haraldseid-Driftland et al. BMC Health Services Research (2023) 23:890 https://doi.org/10.1186/s12913-023-09922-6

BMC Health Services Research

RESEARCH ARTICLE

Open Access

Learning tools used to translate resilience in healthcare into practice: a rapid scoping review



Cecilie Haraldseid-Driftland , Heidi Dombestein , Anh Hai Le2, Stephen Billett2 and Siri Wiig1

Open access

Original research

BMJ Open Quality Exploring managers' response to a quality and safety leadership intervention: findings from a multiple case study in Norwegian nursing homes and homecare services

Terese Johannessen ⁰, ¹ Eline Ree, ¹ Ingunn Aase, ¹ Roland Bal, ² Siri Wiig¹



frontiers | Frontiers in Public Health

TYPE Original Research PUBLISHED 26 June 2023 DOI 10.3389/fpubh.2023.1173483



OPEN ACCESS

EDITED BY Yvonne Tran, Macquarie University, Australia

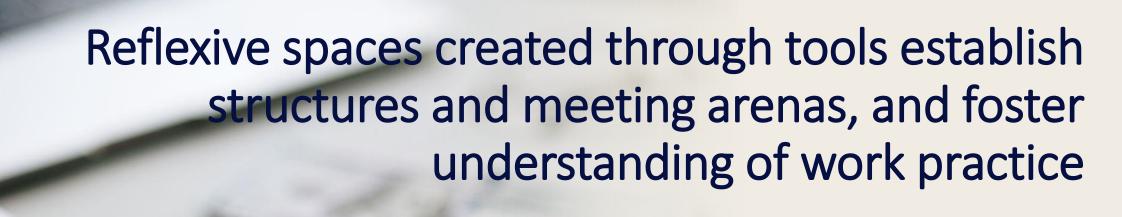
Arunima Mukherjee, University of Oslo, Norway Klay Lamprell, Macquarie University, Australia

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Making tacit knowledge explicit through objects: a qualitative study of the translation of resilience into practice

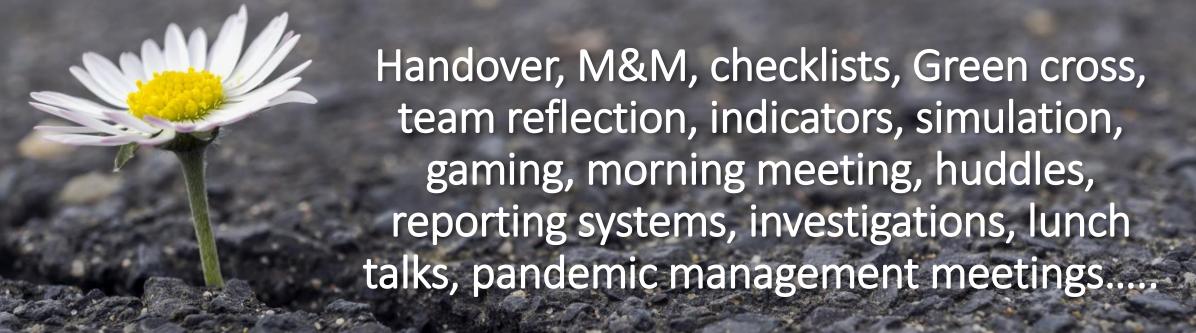
Hilda Bø Lyng^{1*}, Cecilie Haraldseid-Driftland¹, Veslemøy Guise¹, Eline Ree¹, Heidi Dombestein¹, Birte Fagerdal¹, Hilde Valen Wæhle^{1,2} and Siri Wiig¹





- Bring people together
- Talk about system safety
- Boundary objects
- Translate theory into practice
- Creates collective understanding of safety concepts and practices

Other examples?







https://doi.org/10.1093/bjs/znad111

Surgical team dynamics in a reflective team meeting to improve quality of care: a qualitative analysis of a shared mental model

Merel J. Verhagen ^{1,*} , Marit S. de Vos² , Jan van Schaik ¹ , Joost R. van der Vorst ¹ , Abbey Schepers ¹ , Perla J. Marang-van de Mheen ³ and Jaap F. Hamming ^{1,*}

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Wahl et al. BMC Health Services Research 2022, 22(1):1101 https://doi.org/10.1186/s12913-022-08462-9

BMC Health Services Research

RESEARCH

Open Access

Experience of learning from everyday work in daily safety huddles—a multi-method study

Karina Wahl^{1,2*}, Margaretha Stenmarker^{2,3,4} and Axel Ros⁵

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DOI: 10.1111/nicc.13114

QUALITY IMPROVEMENT REPORT

BAGN Nursing in Critical Care



Learning from patient safety incidents: The Green Cross method

Hilde Kristin Jacobsen MSc, CPN¹ Randi Ballangrud PhD² Gørill Helen Birkeli MSc, CCN3

SPECIAL ESA LECTURE 2020

Taking Morbidity and Mortality Conferences to a Next Level

The Resilience Engineering Concept

Merel J. Verhagen, MD,* Marit S. de Vos, MD, PhD,† and Jaap F. Hamming, MD, PhD* ■





- Proactive learning method enabling professionals to identify PSIs.
- Each day displayed in a cross shape and evaluated with a colour-code system

Green Cross

		1	2 5	3 6			Red: Serious avoidable patient injury has	
							occurred	
7	8	9	10	11	12	13	Orange: Avoidable patient injury has occurred	
4	15	16	17	18	19	20		
21	22	23	24	25	26	27	Yellow: Risk that patient injury has	
		28	29	30			occurred	
		31					Green: No patient injury	



(Jacobsen et al 2024)



Green Cross



TABLE 3 Findings before implementing the Green Cross method.

Subcategory	Category
Lack of openness hampers learning	Limited openness and learning
Adverse events were taken seriously	
Insufficient visible improvements	

TABLE 4 Findings 3 months after implementing the Green Cross method.

Subcategory	Category
Transparency increases learning Increased patient safety awareness	A learning environment is emerging
Committed to quality improvements	(Jacobsen et. al 2024)



The **Green Line** is a **tool** to support daily conversations and to **promote learning** and improvement **based on ordinary** work in a patient safety **huddle**.

Green Line

Code
Seeing benefits with reflection
Learning from what happens
Finding improvements for a rewarding reflection
Seeing difficulties with reflection
The impact of the work climate



(Wahl et al 2022)



Surgical team dynamics in a reflective team meeting to improve quality of care: a qualitative analysis of a shared mental model

Merel J. Verhagen^{1,*} (I), Marit S. de Vos² (II), Jan van Schaik¹ (III), Joost R. van der Vorst¹ (III), Abbey Schepers¹ (III), Perla J. Marang-van de Mheen³ (III) and Jaap F. Hamming^{1,*}

- Adapted M&M meeting to collectively discuss all cases (successful and complicated)
- Promoted shared mental model -> improving quality

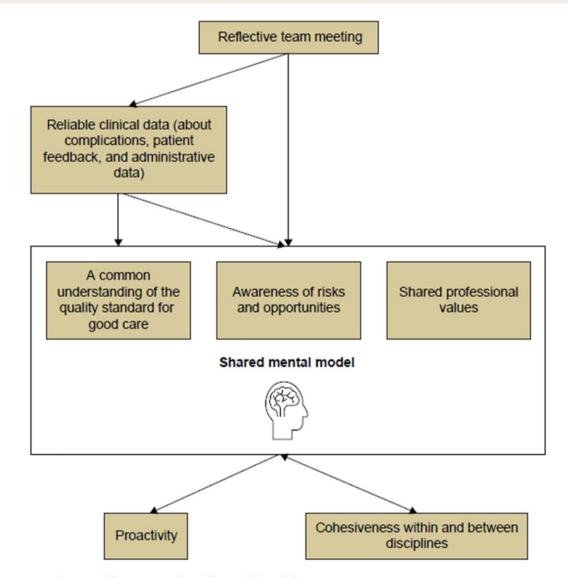


Fig. 1 How a reflective team meeting contributes to a shared mental model



Who, why, and how

- Employees
- Leaders
- Regulators
- Policy makers
- Patients
- Unions
- Professional associations
- Health systems

• ...



Creating reflexive spaces between regulators and the regulated

- Responsive regulation adjusting methods to promote reflection
- Use incident investigation to generate team reflection
- Regulate user invovlement processes, structures, and meeting arenas

• Use soft signals as part of regulatory logic





(Kok 2021; Kok et al 2020; Øyri et al 2024; Wiig et al 2020;2024)





Reflective Learning Health Systems?







System

Data, infrastructure and standardisation Integration of data and workflow

Culture and climate supporting ongoing learning



Health system worker

Evidence-based practice

Leadership and teamwork skills

Analytical and technological skills, data-science

Self-reflective capacity



Patient

Health literacy

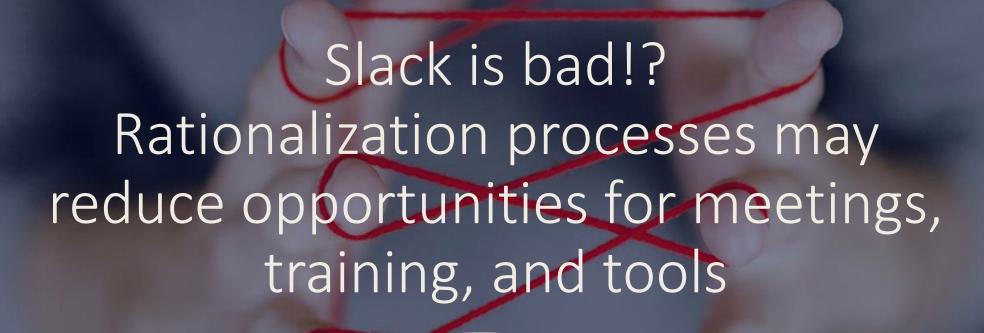
Interact with technology





People are already multitasking... They don't have time!







Success criteria?

Trust, dialog, respect, and a psychologically safe atmosphere.

(Gray 2007; Cunliffe 2002; Wiig et al 2020; Wahl et al 2022; Jacobsen et al 2024)





For those leading

- 1. Make reflexive spaces relevant and integral to work
- 2. Promote continuity in management positions
- 3. Ensure support and open climate
- 4. Use tools to structure and guide reflection

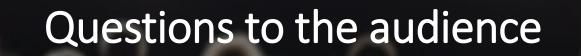




University of Stavanger

Conclusion

- Creating different constellations of reflexive spaces is a foundation for promoting conditions that may cultivate patient safety improvement
- New managerial and regulatory approaches can stimulate, rather than curb, reflexive learning
- Improvement processes could benefit from acknowledging reflexive spaces where people within and across organizations meet, share experiences, and create opportunities for learning.



What may promote or hinder reflexive and multidisciplinary dialogue in your work?

Why is reflexive dialogue important when resources are scarce?