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Adaptive capacity in hospital teams: – a cross-country comparative study







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What is it that generates resilience in teams?

Aim

- Investigate how adaptive capacity in hospital teams is influenced by team, organizational, and healthcare system factors
- Methods
 - Ethnographic observations
 - Semi-structured interviews

(Anderson et al.2020)

Open access

BMJ Open Multilevel influences on resilient healthcare in six countries: an international comparative study protocol

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Introduction Resilient healthcare (RHC) is an emerging area of theory and applied research to understand how healthcare organisations cope with the dynamic, variable and demanding environments in which they operate, based on insights from complexity and systems theory. Understanding adaptive capacity has been a focus of RHC studies. Previous studies clearly show why adaptations are necessary and document the successful adaptive actions taken by clinicians. To our knowledge, however, no studies have thus far compared RHC across different teams and countries. There are gaps in the research knowledge related to the multilevel nature of resilience across healthcare systems and the team-based nature of

This cross-country comparative study therefore aims to add knowledge of how resilience is enabled in diverse healthcare systems by examining adaptive capacity in hospital teams in six countries. The study will identify how team, organisational and national healthcare system factors support or hinder the ability of teams to adapt to variability and change. Findings from this study are anticipated to provide insights to inform the design of RHC systems by considering how macro-level and meso-level structures support adaptive capacity at the micro-level, and to develop guidance for organisations and

Methods and analysis The study will employ a multiple comparative case study design of teams nested within hospitals, in turn embedded within six countries: Australia, Japan, the Netherlands, Norway, Switzerland and the UK. The design will be based on the Adaptive Teams Framework placing adaptive teams at the centre of the healthcare system with layers of environmental, organisational and system level factors shaping adaptive capacity. In each of the six countries, a focused mapping of the macro-level features of the healthcare system will be undertaken by using documentary sources and interviews with key informants operating at the macro-level. A sampling framework will be developed to select two hospitals in each country to ensure variability based on aire location and topobing status. Four teams will be

Strengths and limitations of this study

- First international cross-country, multilevel comparative study of resilience in healthcare.
- An in-depth exploration of adaptive capacity in 48 hospital teams in six countries.
- Development of team adaptive capacity theory grounded in rich data.
- Limited number of hospitals included in each country could reduce generalisability.
- Language differences and health system variations may challenge cross-country comparison.

interviews and document analysis. Within-case analysis will be conducted according to a standardised template using a combination of deductive and inductive qualitative coding, and cross-case analysis will be conducted drawing on the Qualitative Comparative Analysis framework.

Ethics and dissemination The overall Resilience in Healthcare research programme of which this study is a part has been granted ethical approval by the Norwegian Centre for Research Data (Ref. No. 8643334 and Ref. No. 478838). Ethical approval will also be sought in each country involved in the study according to their respective regulatory procedures. Country-specific reports of study outcomes will be produced for dissemination online. A collection of case study summaries will be made freely available, translated into multiple languages. Brief policy communications will be produced to inform policymakers and regulators about the study results and to facilitate translation into practice. Academic dissemination will occur through publication in journals specialising in health services research. Findings will be presented at academic, policy and practitioner conferences, including the annual RHC Network meeting and other healthcare quality and safety conferences. Presentations at practitioner and academic conferences will include workshops to translate the findings into practice and influence quality and safety programmes internationally.



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ADAPTIVE CAPACITY

"adaptive capacity can be defined as the ability to adapt to external and internal demands by reframing, aligning, coping and innovating"

(Lyng et al., 2022).





Factors that differentiate teams based on our previous research

Membership: Stable, unstable, or mixed

Teamworking style: Sustained or episodic

Location: Fixed or mobile, co-location

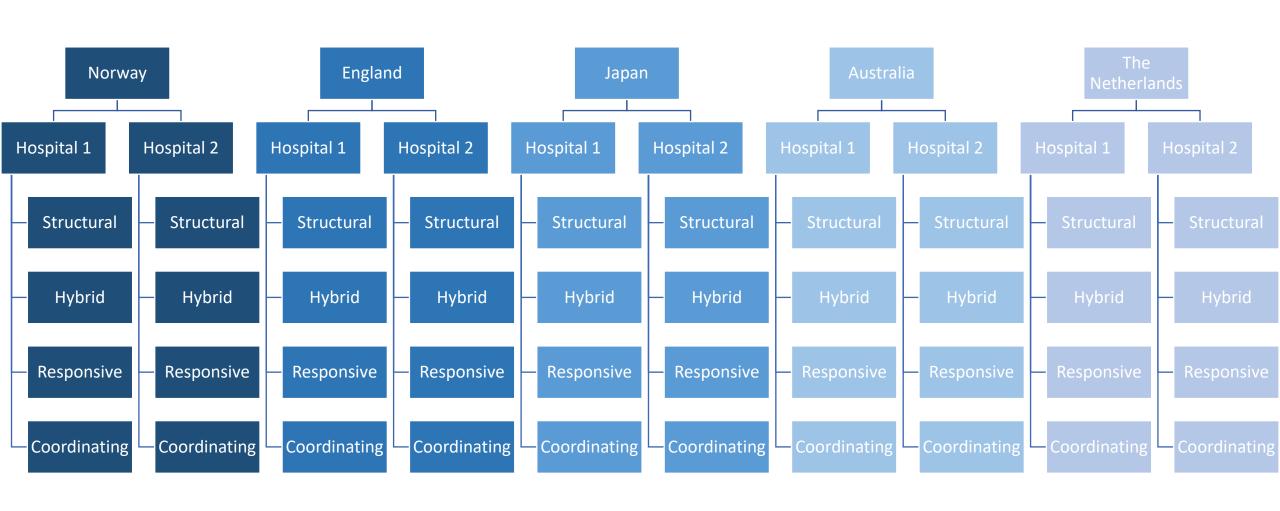
Function: What they do together

Four types of healthcare teams

Team Type	Teamworking	Location	Membership
	Style		
Structural	Sustained	Fixed	Stable membership
Hybrid	Sustained	Fixed	Some stable members and some unstable members
Responsive	Episodic	Mobile	Unstable membership
Coordinating	Sustained	Fixed	Some stable members and some unstable members

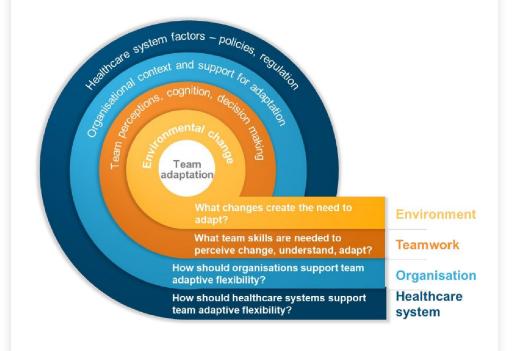
The cases: Five countries, two hospitals, four team types

(aka, a LOT of data ②)



Methods

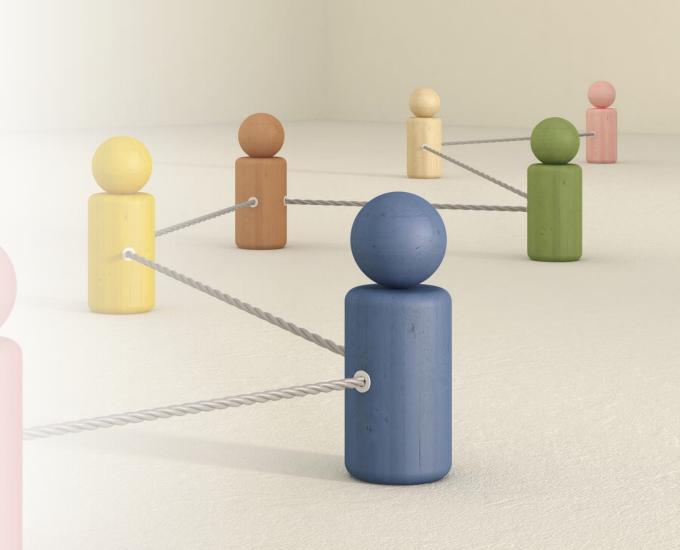
- **Phase 1:** Mapping of country characteristics and sampling
- Phase 2: Within-country case studies
 - Documentary analysis
 - Observations of adaptive teamwork
 - Interviews
- **Phase 3:** Cross-country comparative analysis
 - Country reports (template)





Team factors that enable and hinder adaptive capacity

- Function
- Structure (membership, nature of teamworking)
 - Roles
 - Procedures
- Team stability
 - Experience
 - Competence
- Leadership
- Shared goals
- Communication tools
- Relationships
 - Experience working together as a team
 - Culture





Similarities in factors influencing adaptive capacity in team types across countries



Structural

Social approach relationships re-prioritizing and reallocating



Hybrid

Remote communication platforms, relationship between stable and unstable members



Responsive

Function, skill,
procedures, impact on
'remaining' team
members



Coordinating

Function, leadership and experience, aerial view, problems are 'for us, not to us,' gathering and sharing information

Preliminary conclusion/implication

• More focus on the importance of relationships in healthcare organisation between all levels

• The different types of teams needs different types of support









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