SYSTEMS THINKING - HOW TO ADDRESS WICKED PROBLEMS IN HEALTHCARE DELIVERY: IMPLICATIONS TO CANCER CARE

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INTRODUCTION

Systems thinking is increasingly applied to address complex problems in cancer care delivery by enabling a holistic understanding of systems, their components, and the interconnections between them.

AIMS

In this scoping review, we aimed to describe and classify existing systems-thinking methods applied in healthcare delivery research, with the goal of drawing insights from general healthcare to inform cancer care.

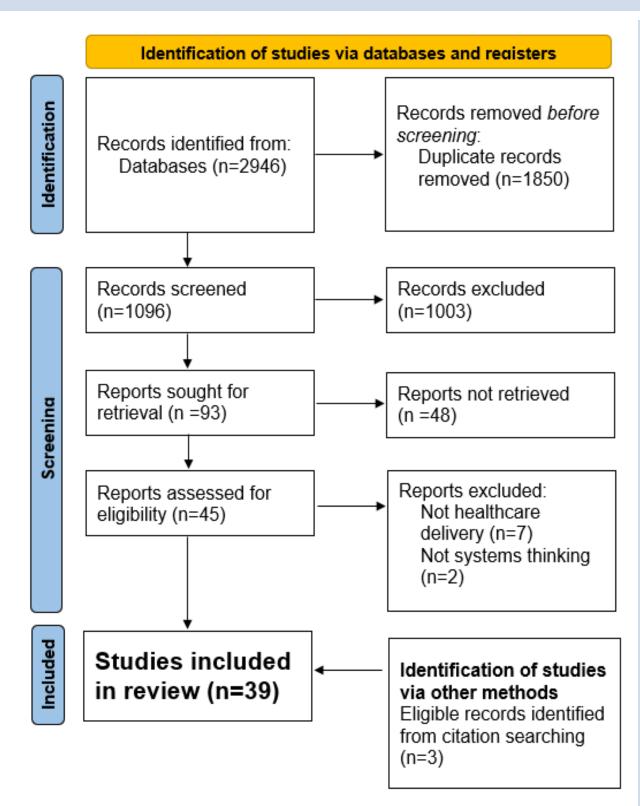


Figure 1. PRISMA 2020 flow diagram

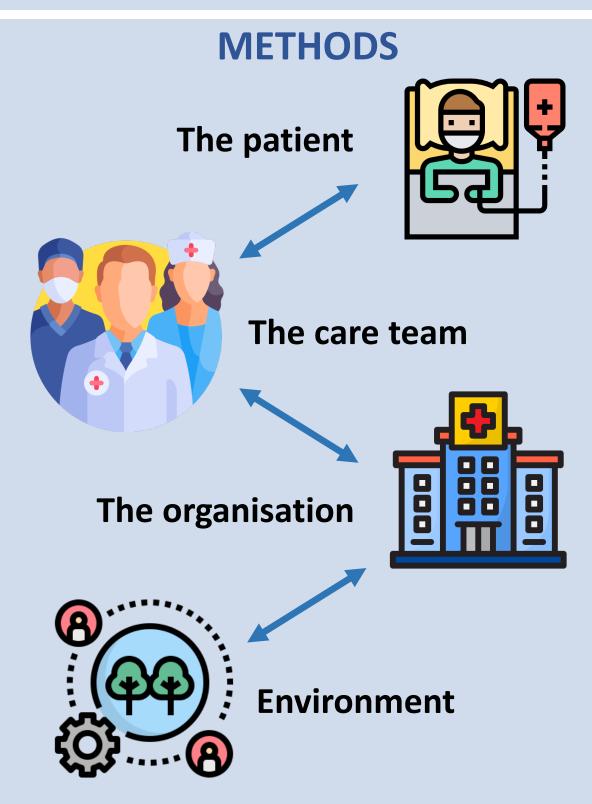


Figure 2. Framework for a systems approach to healthcare delivery

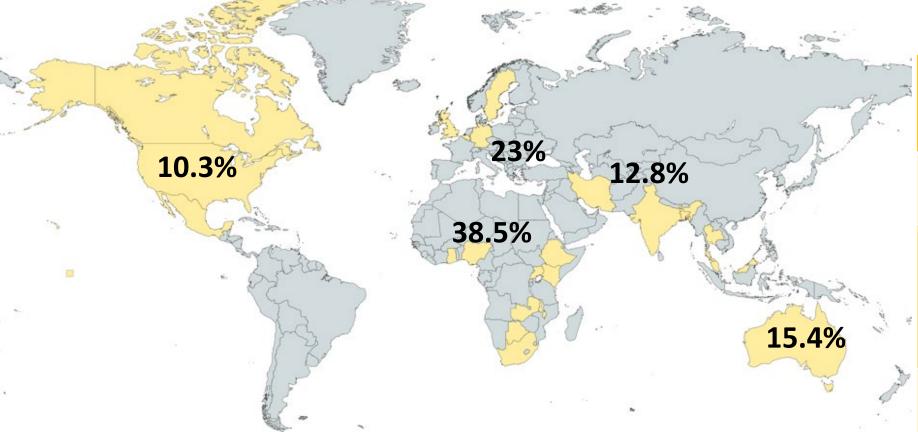


Figure 3. World map illustrating the distribution of studies

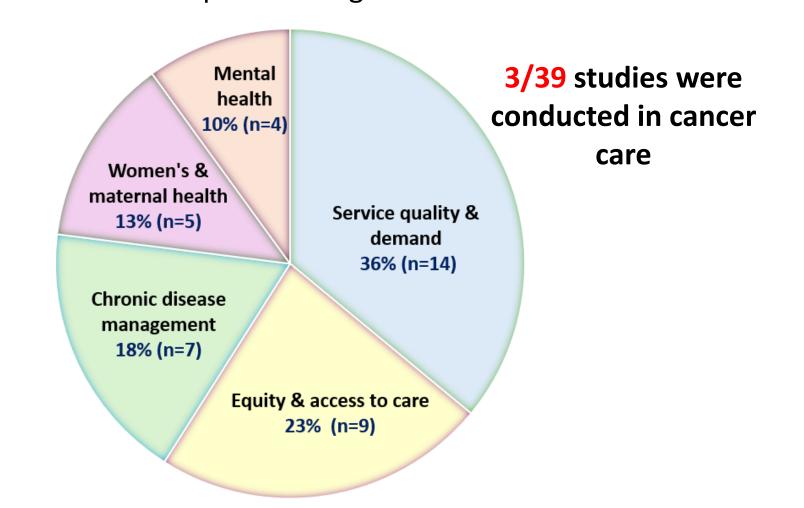
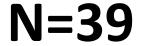


Figure 4. Distribution of healthcare delivery challenges

RESULTS



1	Systems-thinking application	Number studies (
	Identifying factors and their interconnections	17 (43.6)
36	Identifying factors and their interconnections AND Identifying key leverage points	7 (17.9)
7	Identifying key leverage points Identifying barriers and facilitators only	7 (17.9)
	Identifying factors and their interconnections AND Developing interventions	4 (10.3)
	Mapping network structure only	2 (5.1)
	Identifying factors and their interconnections AND Identifying key leverage points AND Developing interventions	1 (2.6)
	Developing interventions only	1 (2.6)

Figure 5. Application of systems-thinking methods

CONCLUSIONS

- The applications of systems-thinking methodology are diverse and can be used to address complex problems in cancer care.
- The findings provide valuable guidance for researchers, clinicians and policymakers in designing more comprehensive and adaptable cancer care interventions that address the complex nature of healthcare systems.





