

## Supplementary 2 – SQUIRE checklist

# Reporting checklist for quality improvement in health care.

Based on the SQUIRE guidelines.

	Reporting Item	Page Number [refers to submission document, not published document]
<b>Title</b>		
	<a href="#">#1</a> Indicate that the manuscript concerns an initiative to improve healthcare (broadly defined to include the quality, safety, effectiveness, patientcenteredness, timeliness, cost, efficiency, and equity of healthcare)	Title page
<b>Abstract</b>		
	<a href="#">#02a</a> Provide adequate information to aid in searching and indexing	Abstract (0)
	<a href="#">#02b</a> Summarize all key information from various sections of the text using the abstract format of the intended publication or a structured summary such as: background, local problem, methods, interventions, results, conclusions	Abstract (0)
<b>Introduction</b>		
Problem description	<a href="#">#3</a> Nature and significance of the local problem	1=
Available knowledge	<a href="#">#4</a> Summary of what is currently known about the problem, including relevant previous studies	2-3
Rationale	<a href="#">#5</a> Informal or formal frameworks, models, concepts, and / or theories used to explain the problem, any	2-3

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		reasons or assumptions that were used to develop the intervention(s), and reasons why the intervention(s) was expected to work	
Specific aims	<a href="#">#6</a>	Purpose of the project and of this report	3
<b>Methods</b>			
Context	<a href="#">#7</a>	Contextual elements considered important at the outset of introducing the intervention(s)	3
Intervention(s)	<a href="#">#08a</a>	Description of the intervention(s) in sufficient detail that others could reproduce it	4
Intervention(s)	<a href="#">#08b</a>	Specifics of the team involved in the work	3
Study of the Intervention(s)	<a href="#">#09a</a>	Approach chosen for assessing the impact of the intervention(s)	5-6
Study of the Intervention(s)	<a href="#">#09b</a>	Approach used to establish whether the observed outcomes were due to the intervention(s)	5-6
Measures	<a href="#">#10a</a>	Measures chosen for studying processes and outcomes of the intervention(s), including rationale for choosing them, their operational definitions, and their validity and reliability	6-8
Measures	<a href="#">#10b</a>	Description of the approach to the ongoing assessment of contextual elements that contributed to the success, failure, efficiency, and cost	7-8
Measures	<a href="#">#10c</a>	Methods employed for assessing completeness and accuracy of data	7
Analysis	<a href="#">#11a</a>	Qualitative and quantitative methods used to draw inferences from the data	8-10
Analysis	<a href="#">#11b</a>	Methods for understanding variation within the data, including the effects of time as a variable	8
Ethical considerations	<a href="#">#12</a>	Ethical aspects of implementing and studying the intervention(s) and how they were addressed, including, but not limited to, formal ethics review and potential conflict(s) of interest	9

**Results**

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	<a href="#">#13a</a>	Initial steps of the intervention(s) and their evolution over time (e.g., time-line diagram, flow chart, or table), including modifications made to the intervention during the project	Fig 4, S4, S5
	<a href="#">#13b</a>	Details of the process measures and outcome	17-18
	<a href="#">#13c</a>	Contextual elements that interacted with the intervention(s)	N/A
	<a href="#">#13d</a>	Observed associations between outcomes, interventions, and relevant contextual elements	9-16
	<a href="#">#13e</a>	Unintended consequences such as unexpected benefits, problems, failures, or costs associated with the intervention(s).	N/A
	<a href="#">#13f</a>	Details about missing data	N/A
<b>Discussion</b>			
Summary	<a href="#">#14a</a>	Key findings, including relevance to the rationale and specific aims	18
Summary	<a href="#">#14b</a>	Particular strengths of the project	18
Interpretation	<a href="#">#15a</a>	Nature of the association between the intervention(s) and the outcomes	18
Interpretation	<a href="#">#15b</a>	Comparison of results with findings from other publications	18-19
Interpretation	<a href="#">#15c</a>	Impact of the project on people and systems	18-21
Interpretation	<a href="#">#15d</a>	Reasons for any differences between observed and anticipated outcomes, including the influence of context	21
Interpretation	<a href="#">#15e</a>	Costs and strategic trade-offs, including opportunity costs	N/A
Limitations	<a href="#">#16a</a>	Limits to the generalizability of the work	23
Limitations	<a href="#">#16b</a>	Factors that might have limited internal validity such as confounding, bias, or imprecision in the design, methods, measurement, or analysis	19-21

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Limitations	<a href="#">#16c</a>	Efforts made to minimize and adjust for limitations	19-21
Conclusion	<a href="#">#17a</a>	Usefulness of the work	21
Conclusion	<a href="#">#17b</a>	Sustainability	21
Conclusion	<a href="#">#17c</a>	Potential for spread to other contexts	21
Conclusion	<a href="#">#17d</a>	Implications for practice and for further study in the field	21
Conclusion	<a href="#">#17e</a>	Suggested next steps	21
<b>Other information</b>			
Funding	<a href="#">#18</a>	Sources of funding that supported this work. Role, if any, of the funding organization in the design, implementation, interpretation, and reporting	29-30

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