Standards for Reporting Implementation Studies: the StaRI checklist for completion

The StaRI standard should be referenced as: Pinnock H, Barwick M, Carpenter C, Eldridge S, Grandes G, Griffiths CJ, Rycroft-Malone J, Meissner P, Murray E, Patel A, Sheikh A, Taylor SJC for the StaRI Group. Standards for Reporting Implementation Studies (StaRI) statement. *BMJ* 2017;356:i6795



The detailed Explanation and Elaboration document, which provides the rationale and exemplar text for all these items is: Pinnock H, Barwick M, Carpenter C, Eldridge S, Grandes G, Griffiths C, Rycroft-Malone J, Meissner P, Murray E, Patel A, Sheikh A, Taylor S, for the StaRl group. Standards for Reporting Implementation Studies (StaRI). Explanation and Elaboration document. BMJ Open 2017 2017;7:e013318

Notes: A key concept of the StaRI standards is the dual strands of describing, on the one hand, the implementation strategy and, on the other, the clinical, healthcare, or public health intervention that is being implemented. These strands are represented as two columns in the checklist.

The primary focus of implementation science is the implementation strategy (column 1) and the expectation is that this will always be completed.

The evidence about the impact of the intervention on the targeted population should always be considered (column 2) and either health outcomes reported or robust evidence cited to support a known beneficial effect of the intervention on the health of individuals or populations.

The StaRI standardsrefers to the broad range of study designs employed in implementation science. Authors should refer to other reporting standards for advice on reporting specific methodological features. Conversely, whilst all items are worthy of consideration, not all items will be applicable to, or feasible within every study.

		Reported		Reported	
Checklist ite	m	on page #	Implementation Strategy	on page #	Intervention
			"Implementation strategy" refers to how the		"Intervention" refers to the healthcare or public health
			intervention was implemented		intervention that is being implemented.
Title and abstra	ct				
Title	1	Title page	Identification as an implementation study, and	description of	the methodology in the title and/or keywords
Abstract	2	Abstract	Identification as an implementation study, including a de	•	•
			based intervention being implemented, and	d defining the	key implementation and health outcomes.
Introduction					
Introduction	3	19-22	Description of the problem, challenge or deficiency in hea	Ithcare or pul	olic health that the intervention being implemented aims
				to address.	
Rationale	4	19-23	The scientific background and rationale for the	19-23	The scientific background and rationale for the
			implementation strategy (including any underpinning		intervention being implemented (including evidence

			theory/framework/model, how it is expected to achieve		about its effectiveness and how it is expected to
			its effects and any pilot work).		achieve its effects).
Aims and	5	24	The aims of the study, differentiating between	implementati	on objectives and any intervention objectives.
objectives					
Methods: descr	ription				
Design	6	26	The design and key features of the evaluation, (cross refe	rencing to an	y appropriate methodology reporting standards) and any
			changes to st	udy protocol,	with reasons
Context	7	22-24; 29	The context in which the intervention was implemented.	(Consider soc	cial, economic, policy, healthcare, organisational barriers
			and facilitators that might	influence imp	plementation elsewhere).
Targeted	8	29-30	The characteristics of the targeted 'site(s)' (e.g	29-30	The population targeted by the intervention and any
'sites'			locations/personnel/resources etc.) for implementation		eligibility criteria.
			and any eligibility criteria.		- ,
Description	9	22-23, 26	A description of the implementation strategy	22-23, 26,	A description of the intervention
·		,	, ,	49.	·
Sub-groups	10	n/a	Any sub-groups recruited for additiona	research task	ss. and/or nested studies are described
Sam Sampa		.,, -	β. σ. α. β. σ. α.		
Methods: evalu	ation				
Outcomes	11	25	Defined pre-specified primary and other outcome(s) of	25	Defined pre-specified primary and other outcome(s) of
			the implementation strategy, and how they were		the intervention (if assessed), and how they were
			assessed. Document any pre-determined targets		assessed. Document any pre-determined targets
Process	12	25	Process evaluation objectives and outcomes relate	ed to the mec	hanism by which the strategy is expected to work
evaluation			•		- · · · · · · · · · · · · · · · · · · ·
Economic	13	32-34, 40	Methods for resource use, costs, economic outcomes	32-34, 40	Methods for resource use, costs, economic outcomes
evaluation			and analysis for the implementation strategy		and analysis for the intervention
Sample size	14	32, 34, 38	Rationale for sample sizes (including sample size calculation	ons, budgetar	y constraints, practical considerations, data saturation, as
				appropriate)	•
Analysis	15	36-40	Methods of analys	is (with reaso	ns for that choice)
,			,	,	,
Sub-group	16	n/a	Any a priori sub-group analyses (e.g. between differ	ent sites in a	multicentre study, different clinical or demographic
analyses		,	populations), and sub-groups		,,
	1				F

Results					
Characteristics	17	46	Proportion recruited and characteristics of the recipient population for the implementation strategy	n/a	Proportion recruited and characteristics (if appropriate) of the recipient population for the intervention
Outcomes	18	45	Primary and other outcome(s) of the implementation strategy	Ch 3-6	Primary and other outcome(s) of the Intervention (if assessed)
Process outcomes	19	146-164	Process data related to the implementation strategy m	apped to the	e mechanism by which the strategy is expected to work
Economic evaluation	20	89-94	Resource use, costs, economic outcomes and analysis for the implementation strategy	89-94	Resource use, costs, economic outcomes and analysis for the intervention
Sub-group analyses	21	n/a	Representativeness and outcomes of subgr	oups includir	ng those recruited to specific research tasks
Fidelity/ adaptation	22	49-51	Fidelity to implementation strategy as planned and adaptation to suit context and preferences	49-51	Fidelity to delivering the core components of intervention (where measured)
Contextual changes	23	76	Contextual changes (if an	y) which may	y have affected outcomes
Harms	24	76	All important harms o	r unintended	d effects in each group
Discussion	1				
Structured discussion	25	117-128	Summary of findings, strengths and limitations,	comparisons	with other studies, conclusions and implications
Implications	26	124-126	Discussion of policy, practice and/or research implications of the implementation strategy (specifically including scalability)	124-126	Discussion of policy, practice and/or research implications of the intervention (specifically including sustainability)
General					
Statements	27	44, 133 (ethics) 133 (data sharing) Abstract (Regis-			riate, ethical approval, confidential use of routine data, of protocol), funding and conflicts of interest

	tration &
	conflict of
	interest)
	interest)