What Evidence to Trust?



Social skills: Using GRADE and GRADE-CERQual in systematic reviews of social interventions

Heather Munthe-Kaas

Centre for Epidemic Interventions Research, Norwegian Institute of Public Health SIA Conference, Stockholm, 24 May 2023

Declaration of interests

This presentation was created in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest. I am cofounder of GRADE-CERQual and TRANSFER.

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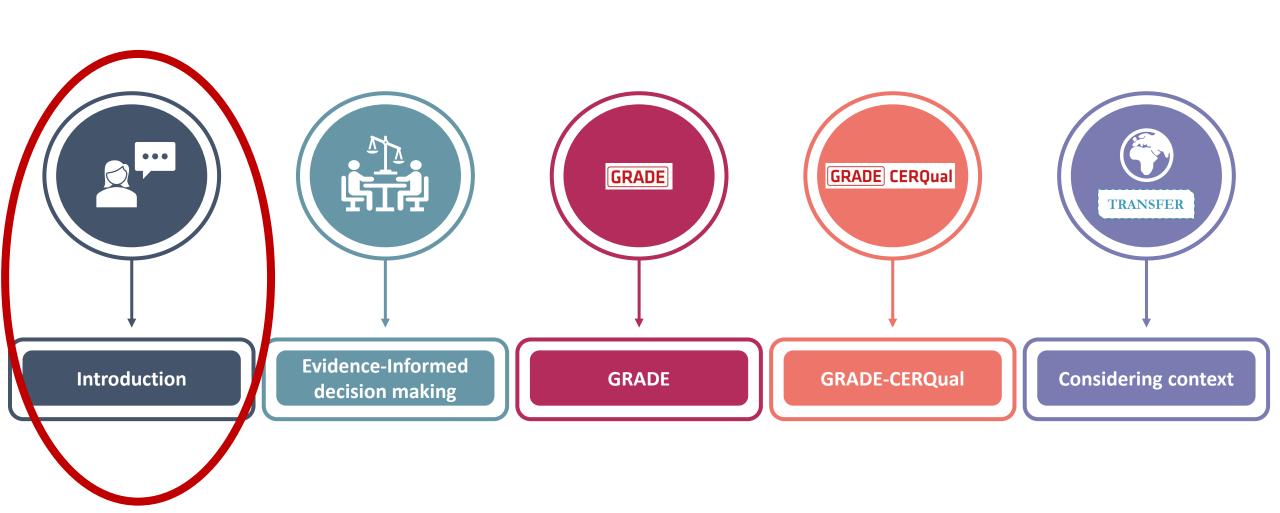


Funding for the development of TRANSFER came from the following organizations:



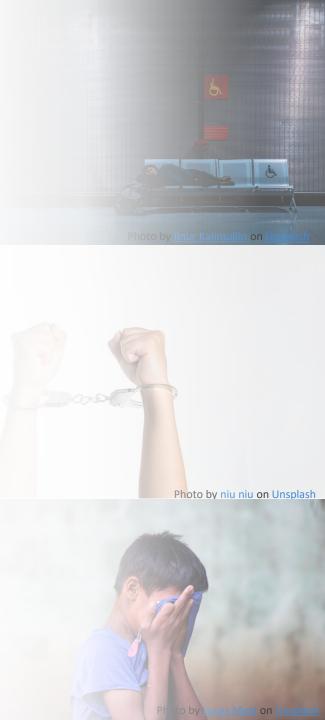


Overview



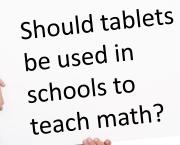
Systematic reviews of social

Social interventions have as much potential for good or harm as health interventions – or more.



Decision makers need evidence about interventions...

How do we teach young people about dating violence?



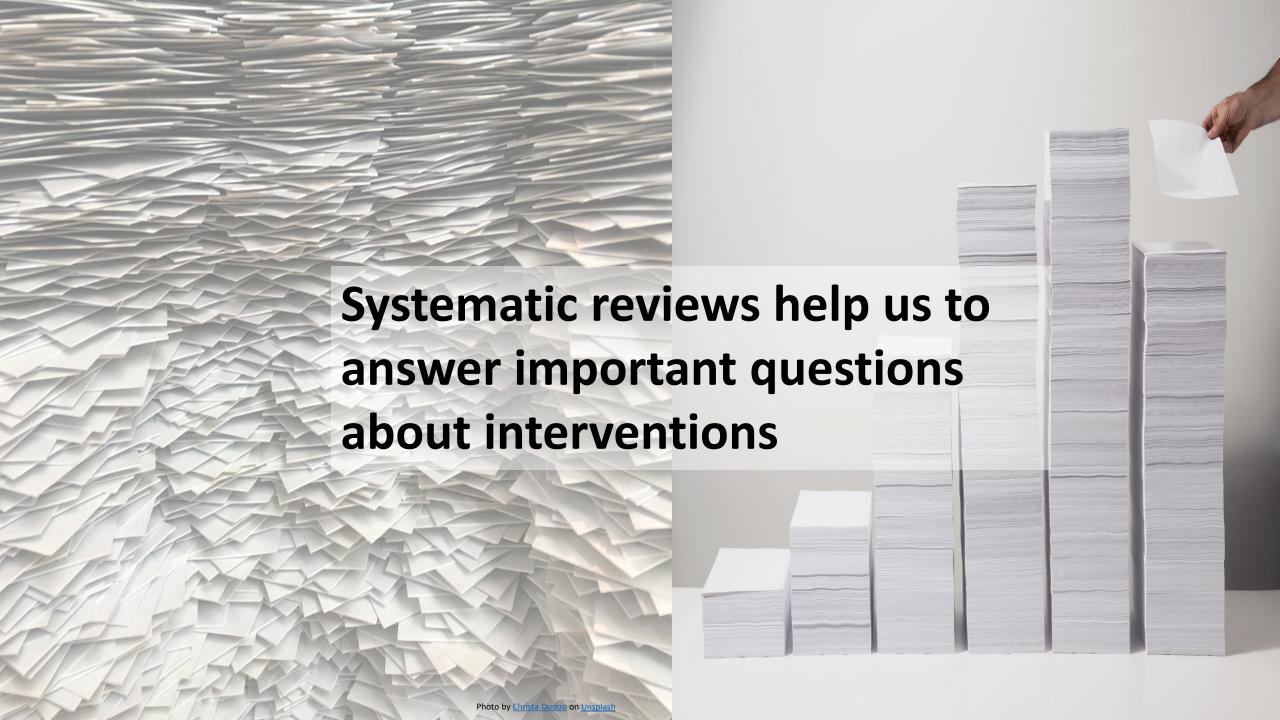
Which supported employment programmes should we offer?





What is the effect of housing programmes on homelessness?



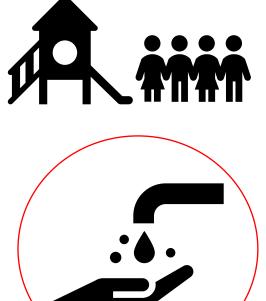


Findings from systematic reviews can be used to...

...provide evidence regarding the effect of interventions







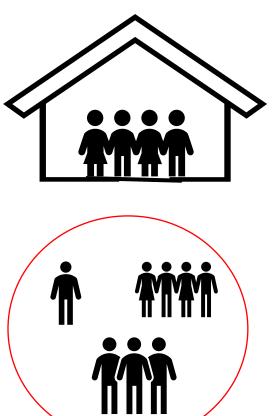
Findings from systematic reviews can be used to...

...provide evidence regarding peoples' experiences or perceptions of interventions





tiltak som påvirker den psykososiale utviklingen hos barnevernsbarn og ungdom som Hovedfunn: Det er usikkert om det å endre antall omsorgsgivere per barn har effekt på problematferd eller kognitiv utvikling hos barn og unge som bor på institusjon. Det er usikkert om ulike turnusordninger har effekt på problematferd eller generell trivsel•Det er usikkert om flere kontinuitetsfremmende eller -hemmende tiltak gjennomført samtidig har effekt på psykososial utvikling eller tilknytning til omsorgsgivere •



It can be challenging to conduct systematic reviews of complex interventions

- Complex
- Evidence from diverse study designs
- Culture



Key papers

Boon, M. H., Thomson, H., Shaw, B., Akl, E. A., Lhachimi, S. K., López-Alcalde, J., ... & GRADE Working Group. (2021). Challenges in applying the GRADE approach in public health guidelines and systematic reviews: a concept article from the GRADE Public Health Group. *Journal of clinical epidemiology*, 135, 42-53.

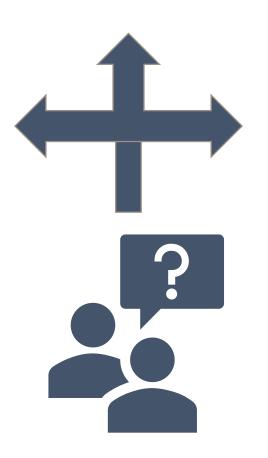
Lorenc, T., Tyner, E. F., Petticrew, M., Duffy, S., Martineau, F. P., Phillips, G., & Lock, K. (2014). Cultures of evidence across policy sectors: systematic review of qualitative evidence. *The European Journal of Public Health*, 24(6), 1041-1047.

Mezey, G., Robinson, F., Campbell, R., Gillard, S., Macdonald, G., Meyer, D., ... & White, S. (2015). Challenges to undertaking randomised trials with looked after children in social care settings. *Trials*, 16, 1-15

Egan, M., Bambra, C., Petticrew, M., & Whitehead, M. (2009). Reviewing evidence on complex social interventions: appraising implementation in systematic reviews of the health effects of organisational-level workplace interventions. *Journal of Epidemiology & Community Health*, 63(1), 4-11.

Thomson, H., Hoskins, R., Petticrew, M., Craig, N., Quinn, T., Lindsay, G., & Ogilvie, D. (2004). Evaluating the health effects of social interventions. BMJ, 328(7434), 282-285.

But we need them anyway...



'We need to be able to rely on social science and social scientists to tell us what works and why and what types of policy initiative are likely to be most effective'

(David Blunkett (then Secretary of State for Education) quoted in Boaz et al. (2002))





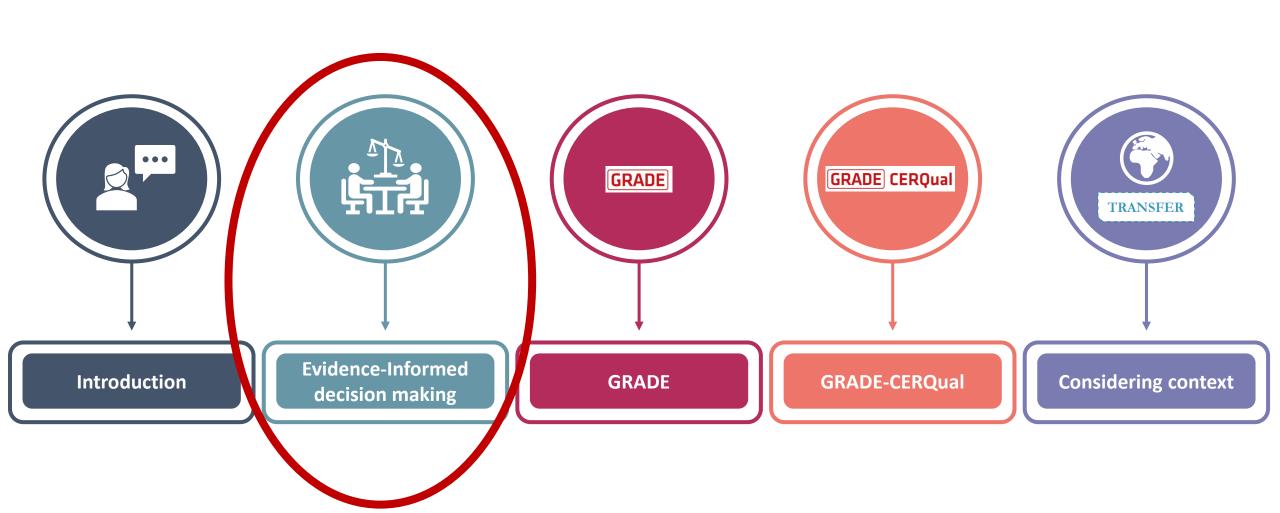
How do we know indicate how much certainty or confidence we have in the findings from systematic reviews?



GRADE CERQual



Overview





Evidence-informed decision making

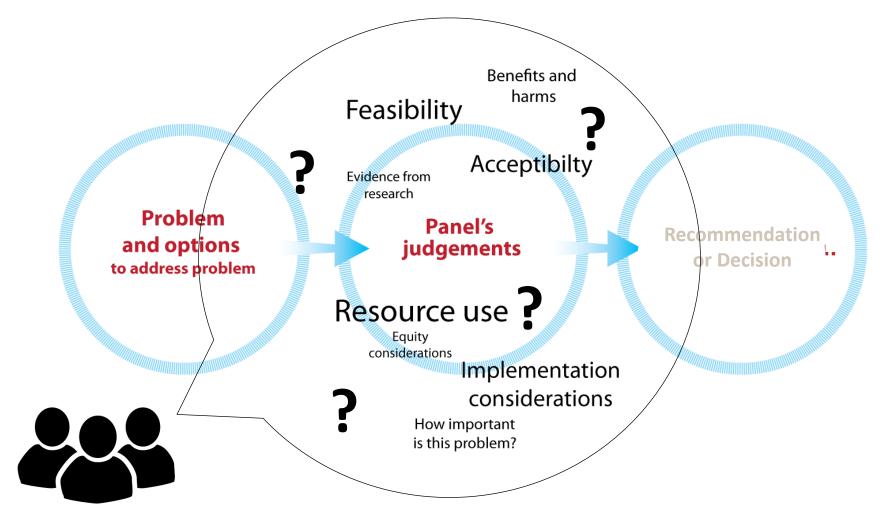
Evidence-informed decision making



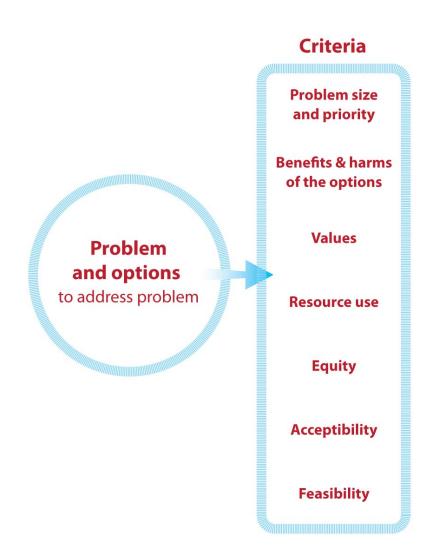
"Of course we'll make a decision ... once we have considered the 5243 factors."



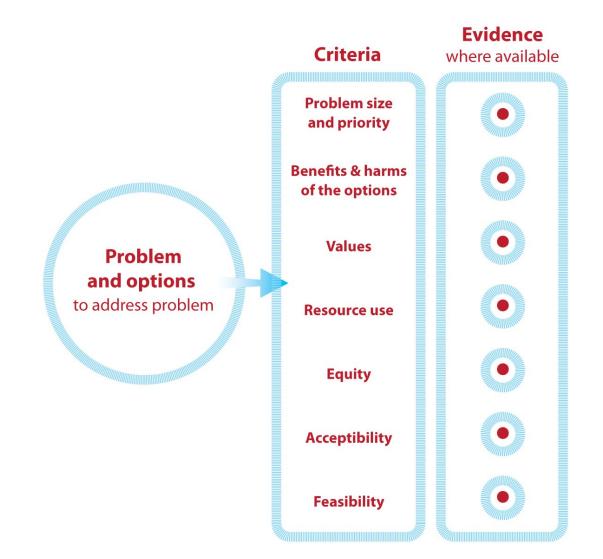
Evidence-to-decision frameworks can help decision makers consider all important factors in a systematic and balanced way...



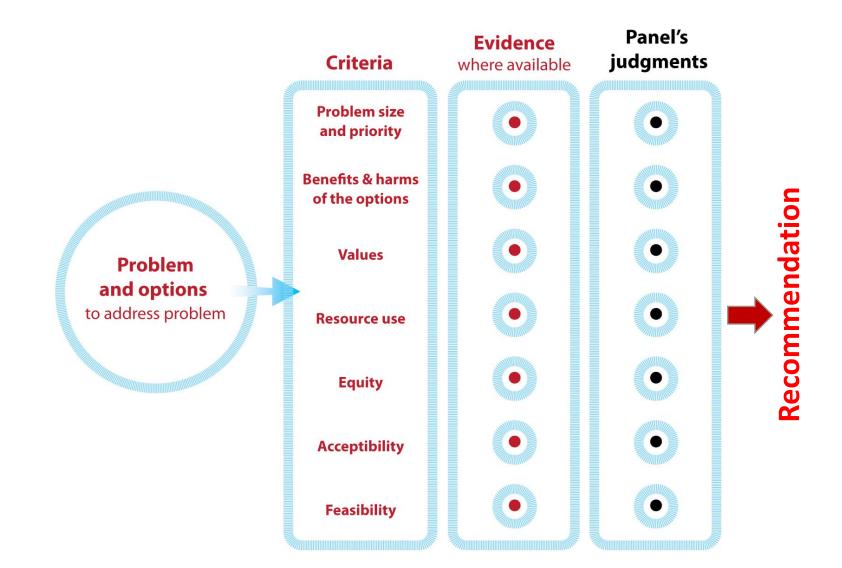
....evidence-to-decision frameworks guide decision makers through different pre-specified criteria.....



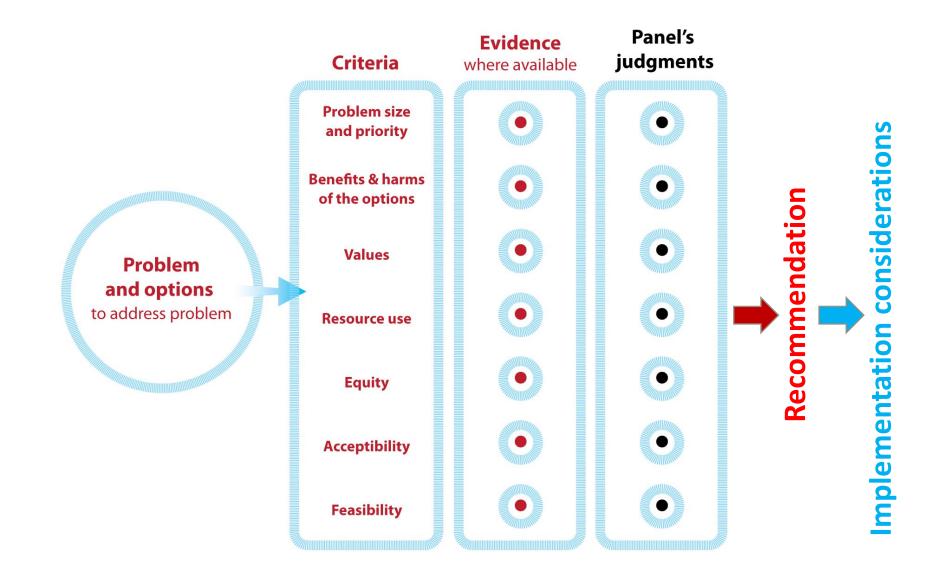
....using the most appropriate evidence for each criterion...



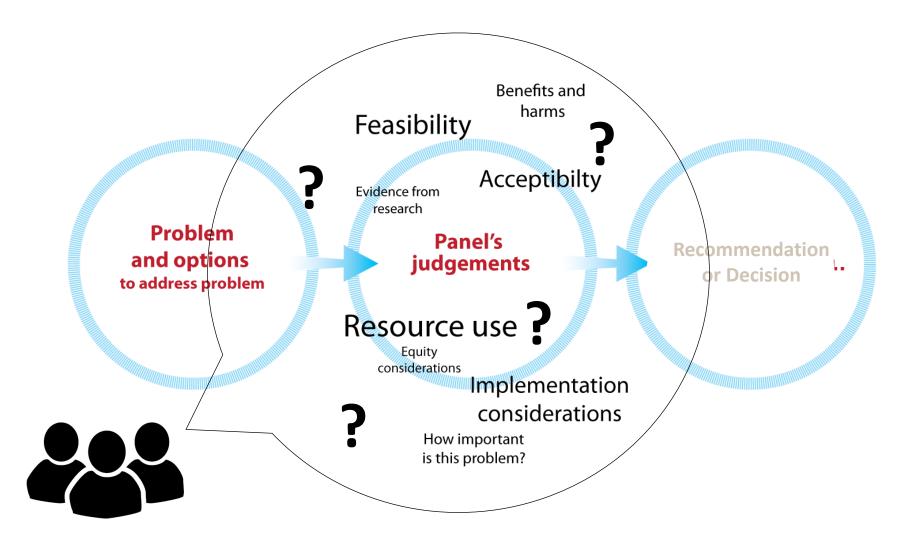
...before making a final judgments and a recommendation or decision.....



...and suggesting implementation considerations

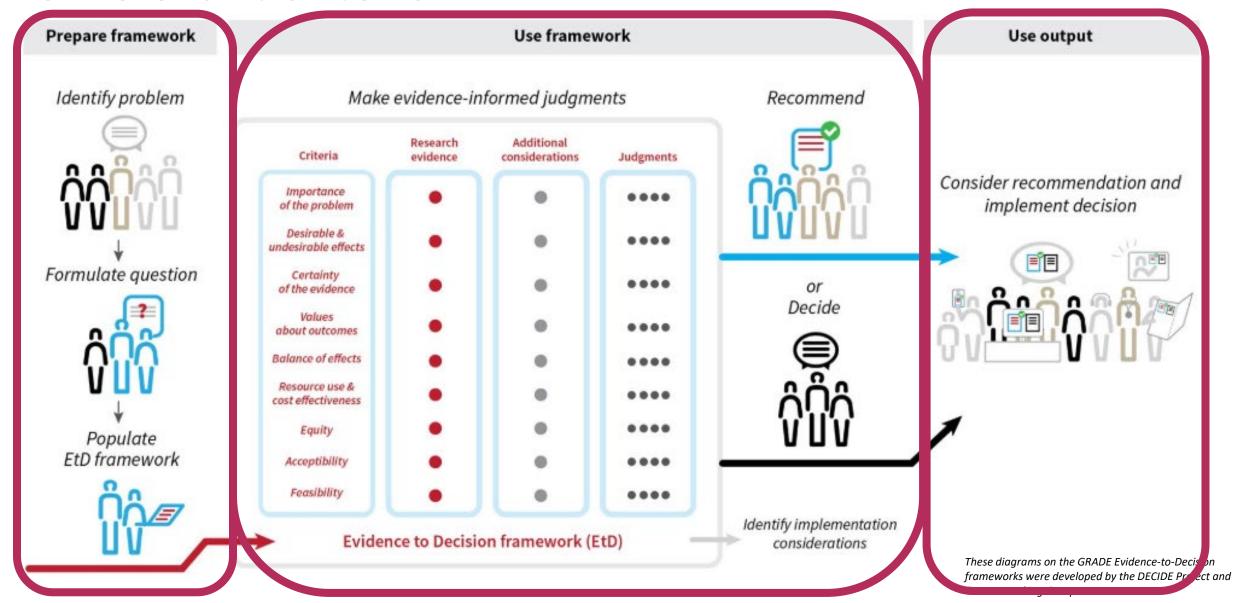


So we can og from this...



These diagrams on the GRADE Evidence-to-Decision frameworks were developed by the DECIDE Project and the GRADE Working Group

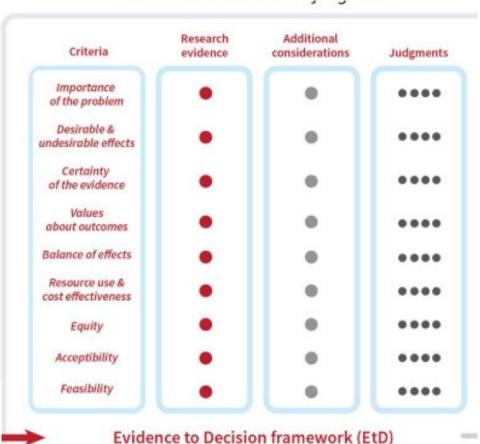
...to a more systematic and transparent assessment of relevant criteria



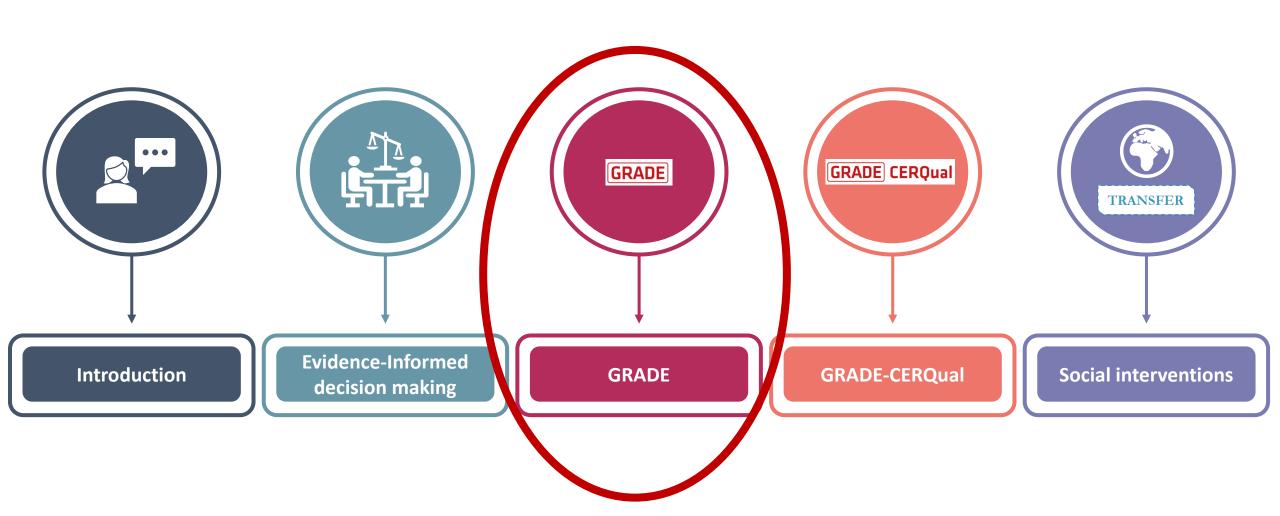
Confidence!!

Certainty!!





Overview





GRADE

Assessing certainty of the evidence

The GRADE approach

What? Why? How?

An approach used to rate certainty of evidence about the effect of an intervention

Considers:

- Quality of evidence
- Individual review outcomes
- Magnitude of effect



I figure there's a 40% chance of showers and a 10% chance we know what we're talking about"

GRADE





GRADE

Establish initial level of certainty (as implemented in

current GRADE)

Study design

Initial certainty in the evidence

Randomized trials → High certainty

Observational studies → Low certainty

Consider lowering or raising level of certainty

Reasons for considering lowering or raising certainty **↓** Lower if ↑ Higher if* Risk of Bias Large effect Inconsistency Dose response **Indirectness** All plausible confounding and Imprecision bias • would reduce a **Publication bias** demonstrated effect · would suggest a spurious effect if no effect was observed

3.
Final level of certainty rating

Certainty in the evidence across those considerations											
High ⊕⊕⊕⊕											
Moderate ⊕⊕⊕⊖											
Low ⊕⊕○○											
Very low ⊕○○○											

Table 1. Use of GRADE not considering ROBINS-I and similar tools: According to GRADE, certainty, quality, strength of the evidence or the confidence in the estimate of effect, is determined for each outcome based on a... Expand

Published in 2018

GRADE Working Group (2019). GRADE guidelines: 18. How ROBINS-I and other tools to assess risk of bias in nonrandomized studies should be used to rate the certainty of a body of evidence. Clinical Epidemiology 105-114.



GRADE Evidence Profile

Table 8.1.2. Comparison 1.A.2 – GRADE Evidence Profile for high intensity case management compared to low intensity case management

Author(s): Heather Munthe-Kaas, Rigmor Berg

Date: 11.11.2016

Question: High intensity case management compared to low intensity case management for improving housing stability and reducing homelessness

Setting: USA

Bibliography: Essock 2006; Drake 1998; Morse 1997

	Quality assessment							atients	Effect	1		
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	high intensity case management	low intensity case management	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Mean number	Mean number of days spent in stable housing (follow up: 36 months; assessed with: self-report)											
2	randomised trials	serious ¹	Serious ³	not serious	not serious ²	none	204	197	-	SMD 0.1	⊕⊕○○ LOW	
										(0.1 lower to 0.29 higher)		

CI: Confidence interval; SMD: Standardised mean difference

- Risk of detection bias in one study. Inadequate reporting of methods in both studies.
- 2. Wide confidence intervals which include benefits and harms.
- 3. Inconsistency between results from the pooled analysis (two studies) and the third study that could not be included in the pooled analysis (Morse 1997). The third study reported that participants in the intervention group reported more days in stable housing than the control group (F=3.54, df=2, 129, p<0.032)

Munthe-Kaas, H. M., Berg, R. C., & Blaasvær, N. (2018). Effectiveness of interventions to reduce homelessness: a systematic review and meta-analysis. Campbell Systematic Reviews, 14(1), 1-281.

Study design

Table 8.1.2. Comparison 1.A.2 – GRADE Evidence Profile for high intensity case management compared to low intensity case management

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№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	high intensity case management	low intensity case management	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Mean number	Mean number of days spent in stable housing (follow up: 36 months; assessed with: self-report)											
2	randomised trials	serious ¹	Serious ³	not serious	not serious ²	none	204	197	-	SMD 0.1	⊕⊕○○ LOW	
	indio									(0.1 lower to 0.29 higher)	2500	

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Risk of bias - randomized trials

Table 8.1.2. Comparison 1.A.2 management

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Date: 11.11.2016

Question: High intensity case management compared to low intens

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Bibliography: Essock 2006; Drake 1998; Morse 1997

N₂ of Study design Risk of bias Inconsistency
studies

N₂ of Study design Risk of bias Inconsistency
N₂ Altman, D₁ G₂
Mean number of days spent in stable housing (follow up: 36 months; as

CI: Confidence interval: SMD: Standardised mean difference

- 1. Risk of detection bias in one study. Inadequate report
- 2. Wide confidence intervals which include benefits and
- Inconsistency between results from the pooled in stable housing than the control group (F=3.5

Bias domain

Bias arising from the randomisation process

Bias due to deviations from intended interventions

Bias due to missing outcome data

Bias in measurement of the outcome

Bias in selection of the reported result Profile for high intensity case management compared to low intensity case

ing stability and reducing homelessness

	№ of p	atients	Effect	t						
Other considerations	high intensity case management	low intensity case	Relative (95% CI)	Absolute (95% CI)	Quality	Importance				
nan, A. D., & Sterne, J. A. (2011). The Cochrane Collaboration's tool for assessing risk of bias in randomised trials. <i>Bmj, 343</i> .										
none	204	197	-	SMD 0.1	000					
				SD higher	LOW					
				(0.1 lower to						
				0.29 higher)						

study that could not be included in the pooled analysis (Morse 1997). The third study reported that participants in the intervention group reported more days

Sterne, J. A., Savović, J., Page, M. J., Elbers, R. G., Blencowe, N. S., Boutron, I., ... & Higgins, J. P. (2019). RoB 2: a revised tool for assessing risk of bias in randomised trials. *bmj*, 366.



Risk of bias - Non-randomized studies

Table 8.1.2. Comparison 1.A.2 management

Author(s): Heather Munthe-Kaas, Rigmor Berg

Date: 11.11.2016

Question: High intensity case management compared to low

Bibliography: Essock 2006; Drake 1998; Morse 1997



Mean numbe	r of days spent in s	table housing (follow)	up: 36 months; as
2	randomised trials	serious 1	Serious ³

CI: Confidence interval: SMD: Standardised mean difference

- Risk of detection bias in one study. Inadequate reporting
- Inconsistency between results from the pooled at in stable housing than the control group (F=3.54

Domain

Pre-intervention

Bias due to confounding

Bias in selection of participants into the study

At intervention

Bias in classification of interventions

Post-intervention

Bias due to deviations from intended interventions

Bias due to missing data

Bias in measurement of outcomes

Bias in selection of the reported result

rofile for high intensity case management compared to low intensity case

ability and reducing homelessness

	N₂ of p	atients	Effect	t		
Other considerations	high intensity case	low intensity case	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
none	204	197	-	SMD 0.1	⊕⊕○○	
				SD higher	LOW	
				(0.1 lower to		
				0.29 higher)		

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Sterne, J. A., Hernán, M. A., Reeves, B. C., Savović, J., Berkman, N. D., Viswanathan, M., ... & Higgins, J. P. (2016). ROBINS-I: a tool for assessing risk of bias in non-randomised studies of interventions. bmj, 355.

Inconsistency

Table 8.1.2. Comparison 1.A.2 – GRADE Evidence Profile for management

Author(s): Heather Munthe-Kaas, Rigmor Berg

Date: 11.11.2016

Question: High intensity case management compared to low intensity case management for improving

Bibliography:	Essock 2006; Dr	ake 1998; Morse 19	197									
			Quality as	ssessment			N≥ of p	atients	Effect			
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	high intensity case management	low intensity case	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Mean number	ean number of days spent in stable housing (follow up: 36 months; assessed with: self-report)											
2	randomised	serious ¹	Serious ³	not serious	not serious ²	none	204	197	-	SMD 0.1	000	
	trials									SD higher	LOW	
										(0.1 lower to		
										0.29 higher)		

CI: Confidence interval: SMD: Standardised mean difference

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Consider in a meta-analysis

- Variation in effect size
- Confidence intervals
- Statistical test for heterogeneity is p<0.05
- I² is large

Inconsistency

Table 8.1.2. Comparison 1.A.2 – GRADE I management

Author(s): Heather Munthe-Kaas, Rigmor Berg

Date: 11.11.2016

Question: High intensity case management compared to low intensity case management

Setting: USA

Bibliography: Essock 2006; Drake 1998; Morse 1997

	HICM Us					Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Bond 1990	30	42	17	40	24.6%	1.68 [1.12, 2.53]	—
Garety 2006	59	71	54	73	75.4%	1.12 [0.95, 1.33]	=
Total (95% CI)		113		113	100.0%	1.26 [1.07, 1.49]	◆
Total events	89		71				
Heterogeneity: Chi² =							0.1 0.2 0.5 1 2 5 10
Test for overall effect:	Z = 2.69 (,P = U.U	107)				Favours usual services Favours HICM

№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	high intensity case management	low intensity case	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Wean number of days spent in stable housing (follow up: 36 months; assessed with: self-report)												
2	randomised	serious ¹	Serious ³	not serious	not serious ²	none	204	197	-	SMD 0.1	000	
	trials									SD higher	LOW	
										(0.1 lower to		
I- OE-I	internal CAMP C	Standardised mean	1:15							0.29 higher)		

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- Risk of detection bias in one study. Inadequate reporting of methods in both studies.
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Inconsistency

Table 8.1.2. Comparison 1.A.2 – GRADE management

Author(s): Heather Munthe-Kaas, Rigmor Berg

Date: 11.11.2016

Question: High intensity case management compared to low intensity case management

Setting: USA

Bibliography: Essock 2006; Drake 1998; Morse 1997 Quality asses Nº of Risk of bias Indirectness Study design Inconsistency studies

Study 10 Study 2 Study 5 Study 6 Study 8 Subtotal (95% CI) Heterogeneity: $Tau^2 = 0.00$; $Chi^2 = 1.37$, df = 4 (P = 0.85); $f^2 = 0\%$ Test for overall effect Z = 56.89 (P < 0.00001) 1.3.2 Participants who reported more than 6 months homelessness at baseline

1.3.1 Participants who reported less than 6 months homelessness at baseline

Study 1 Study 3

Study 4

Study 7 Study 9

Subtotal (95% CI)

Study or Subgroup

Heterogeneity: $Tau^2 = 0.00$; $Chi^2 = 2.94$, df = 4 (P = 0.67); $I^2 = 0\%$ Test for overall effect Z = 53.00 (P < 0.00001)

Total (95% CI)

Heterogeneity: $Tau^2 = 0.00$; $Chi^2 = 8.42$, df = 9 (P = 0.49); $I^2 = 0\%$

Test for overall effect: Z = 77.72 (P < 0.00001)

Test for subgroup differences: $Chi^2 = 4.11$, df = 1 (P = 0.04), $I^2 = 75.7\%$



Std. Mean Difference IV, Random, 95% CI

Wicam Hambon	or days spont in s	table floading (follow	up. 00 monaro, 00000	ood with oon report)								
2	randomised	serious 1	Serious ³	not serious	not serious ²	none	204	197	-	SMD 0.1	⊕⊕○○	
	trials									SD higher	LOW	
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Indirectness

Table 8.1.2. Comparison 1.A.2 – GRADE Evidence Primanagement

Author(s): Heather Munthe-Kaas, Rigmor Berg

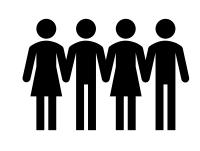
Date: 11.11.2016

Question: High intensity case management compared to low intensity case management for improving housing sta

Setting: USA

Bibliography: Essock 2006; Drake 1998; Morse 1997

			Quality as	ssessment	
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision









nsity case

Importance

Mean number of days spent in stable housing (follow up: 36 months; assessed with: self-report)

2	randomised	serious ¹	Serious ³	not serious	not serious ²	none	204	197	-	SMD 0.1	## 00	
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Imprecision MID for benefit MID for harm Table 8.1.2. Comparison 1.A.2 – GRADE Evidence Profile f to low intensity case management Author(s): Heather Munthe-Kaas, Rigmor Berg Date: 11.11.2016 Question: High intensity case management compared to low intensity case management for improving housing stability and red Bibliography: Essock 2006; Drake 1998; Morse 1997 Quality assessment Quality Importance Nº of Risk of bias Indirectness Other cons Study design Inconsistency Imprecision studies Mean number of days spent in stable housing (follow up: 36 months; assessed with: self-report) -7% -6% -5% -4% -3% -2% -1% RD=0% 1% 2% 3% 4% 5% 6% 7% SMD 0.1 SD higher (0.1 lower to

CI: Confidence interval; SMD: Standardised mean difference

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GRADE overall assessment

2. 3. **Establish initial Consider lowering or raising** Final level of level of certainty (as implemented in level of certainty certainty rating current GRADE) Study design Initial certainty Reasons for considering lowering Certainty in the evidence or raising certainty across those considerations in the evidence **↓** Lower if ↑ Higher if* High **Risk of Bias** Large effect High Randomized trials -> certainty $\oplus \oplus \oplus \oplus$ Dose response Inconsistency Moderate Indirectness All plausible $\oplus \oplus \oplus \bigcirc$ confounding and Imprecision bias Low Low Observational studies **Publication bias** • would reduce a $\oplus \oplus \bigcirc \bigcirc$ certainty demonstrated effect would suggest a Very low spurious effect if no ⊕000 effect was observed

Table 1. Use of GRADE not considering ROBINS-I and similar tools: According to GRADE, certainty, quality, strength of the evidence or the confidence in the estimate of effect, is determined for each outcome based on a... Expand

Published in 2018

GRADE Working Group (2019). GRADE guidelines: 18. How ROBINS-I and other tools to assess risk of bias in nonrandomized studies should be used to rate the certainty of a body of evidence. Clinical Epidemiology 105-114.



Transparency...

Table 8.1.2. Comparison 1.A.2 – GRADE Evidence Profile for high intensity case management compared to low intensity case management

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Date: 11.11.2016

Question: High intensity case management compared to low intensity case management for improving housing stability and reducing homelessness

Setting: USA

Bibliography: Essock 2006; Drake 1998; Morse 1997

Quality assessment						№ of patients		Effect				
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	high intensity case management	low intensity case management	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
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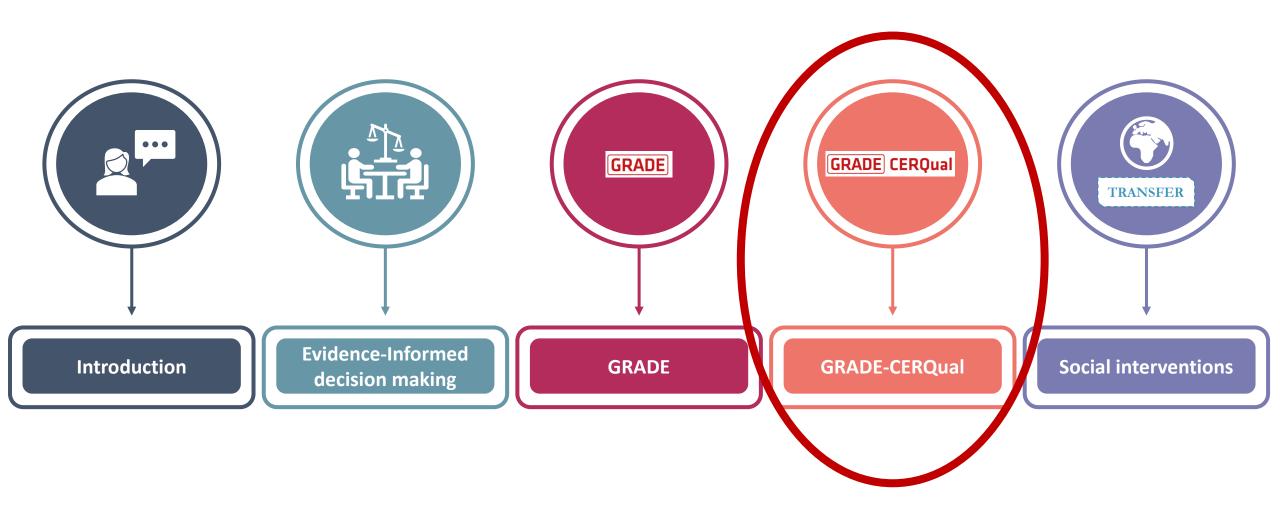
GRADE in the Evidence-to-Decision framework



Additional

Research

Overview





Assessing confidence in the evidence from reviews of qualitative research

GRADE-CERQual

What is qualitative evidence?

Qualitative research aims to describe the social world; understand people's views, experiences and motivations; and often to explain the social world by developing hypotheses, theories or models

Common methods for qualitative research:

- Focus groups
- Individual, semi-structured interviews
- (Participant) observation
- Document analysis

Systematic reviews of qualitative research (or "qualitative evidence syntheses") identify and synthesize these types of studies. These syntheses are becoming increasingly popular

How do qualitative evidence syntheses differ from reviews of effectiveness?



We carry out

for relevant

systematic searches

qualitative studies

The main structure is broadly similar



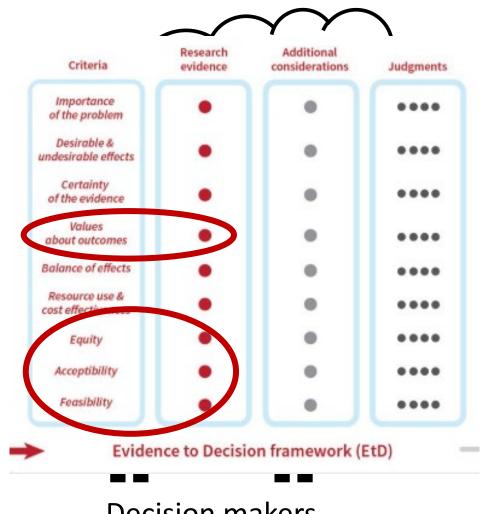
We assess the quality of and extract data from the studies that are included

We synthesise this

But follows principles appropriate for qualitative research

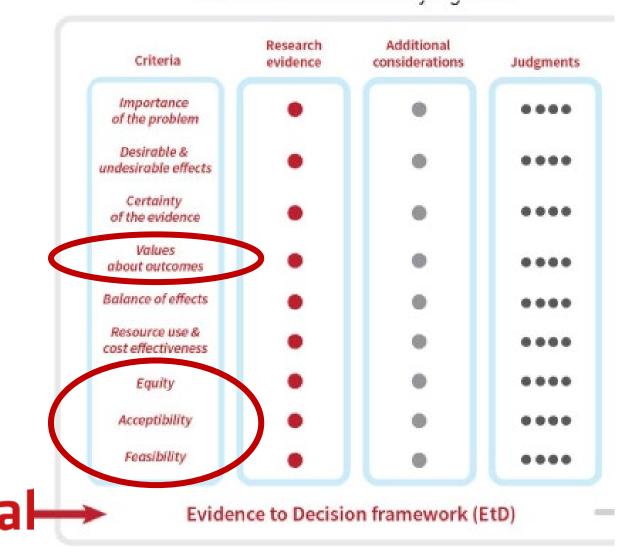
Qualitative research in decision making...

- Systematic reviews of qualitative research (also called qualitative evidence syntheses) are increasingly common
- Increasingly used in guideline or policy development processes
- Decision makers need methods to assess how much confidence to place in findings from these reviews
- Decision makers likely to make these judgements anyway —helpful to provide a systematic and transparent way for doing this



Decision makers

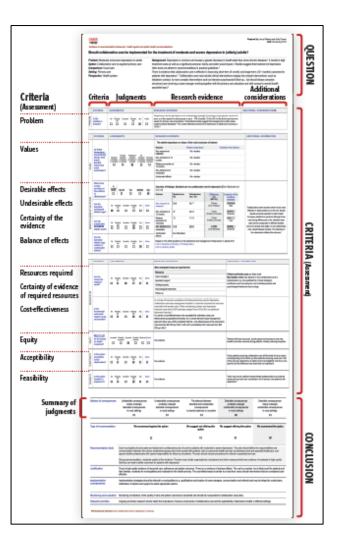
GRADE-CERQual in the Evidence-to-Decision framework





GRADE Evidence-to-Decision Frameworks and qualitative evidence

How people value the outcomes	Consider whether there are differences in, or uncertainties about, how stakeholders value the outcomes
Acceptability of the intervention	Consider the extent to which an intervention is considered to be reasonable, satisfactory or adequate to relevant stakeholders
Feasibility of the intervention	Consider the extent to which an intervention is capable of being accomplished or implemented



GRADE Evidence-to-Decision Frameworks and qualitative evidence

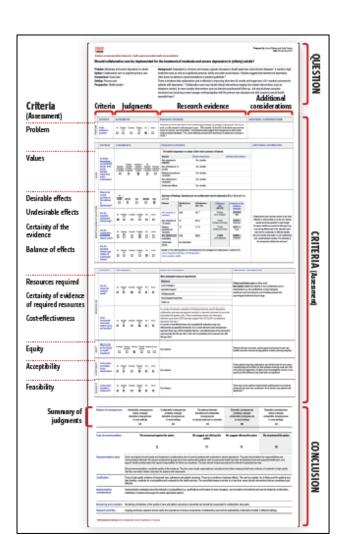
Gender, equity and human rights

...the extent to which certain groups are likely to benefit more or less than others from the intervention in ways that could be corrected, for instance because of their place of residence, ethnicity, gender or sex and so on

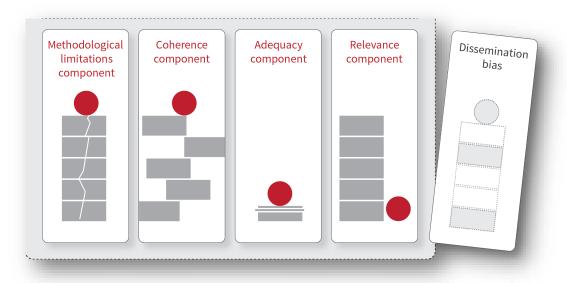
...the extent to which the intervention may impact on stakeholders' universal rights as individuals or groups, or lead to discriminatory practices or unjust power relations.

considerations

Implementation What factors, referred to in the evidence above, should national or local decision makers consider when planning to implement an intervention? Could include both barriers and facilitators to implementing an intervention and how these play out across different groups and contexts.



GRADE-CERQual approach



CERQual: Confidence in the Evidence from Reviews of Qualitative Research

- GRADE-CERQual aims to transparently assess and describe how much confidence to place in findings from qualitative evidence syntheses
- CERQual is part of the range of approaches for assessing confidence in evidence developed by the GRADE Working Group
- A key tool for facilitating the use of qualitative evidence in decision making processes

Why did we develop GRADE-CERQual?

Systematic reviews of qualitative research (also called qualitative evidence syntheses)
 becoming increasingly common

- Also increasingly being used in guideline or policy development processes
- Users need methods to assess how much confidence to place in findings from these reviews

 Users likely to make these judgements anyway –helpful to provide a <u>systematic and</u> <u>transparent</u> way for doing this

How was GRADE-CERQual developed?

- Researchers with backgrounds in qualitative research and systematic reviews
- Broad consultation with wide group of stakeholders

Needed an approach that:

- Could be applied to typical types of qualitative evidence syntheses
- Was easy to use
- Allowed judgements to be reported transparently
- Allowed the judgements to be understood



The GRADE-CERQual approach aims to:

 Transparently assess and describe how much confidence to place in findings from qualitative evidence syntheses



GRADE-CERQual is <u>not</u> a tool for:

 Assessing how well an individual qualitative study was conducted

 Assessing how well a systematic review of qualitative studies was conducted



Assessing quantitative studies of quality of care

What do we mean by 'confidence in the evidence'?

The extent to which a review finding is a reasonable representation of the phenomenon of interest

• i.e. the phenomenon of interest is unlikely to be substantially different from the research finding

GRADE-CERQual is applied to *individual* synthesis findings

• In the context of a qualitative evidence synthesis, a finding is...:

...an analytic output that describes a phenomenon or an aspect of a phenomenon

- Findings from qualitative evidence syntheses typically presented as:
 - Themes, categories or theories
 - As both descriptive or more interpretive findings

Why assess confidence in qualitative evidence?



- Users of evidence tend to make judgements implicitly about how trustworthy evidence or information is
- Implicit bias, based on implicit attitudes and stereotypes, may drive these judgements (Greenwald et al. 2006)
- It may be therefore helpful to provide a <u>systematic and transparent</u> way of assessing confidence in evidence

Relationship to GRADE

GRADE-CERQual is part of the GRADE Working Group

 GRADE-CERQual shares the same aim as the GRADE tool used to assess the certainty of evidence of effectiveness

However, GRADE-CERQual is grounded in the principles of qualitative research

Mapping GRADE and CERQual - commonalities

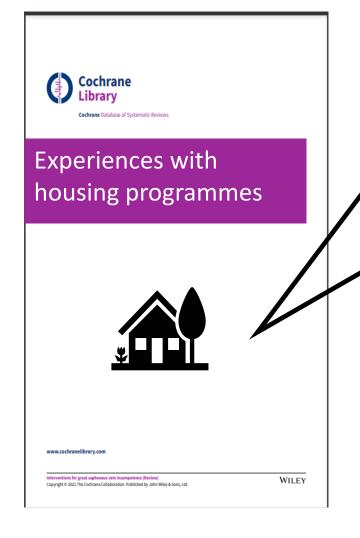
GRADE criteria	GRADE-CERQual domains
Risk of bias	Methodological limitations of the individual studies contributing to a review finding
Inconsistency	Coherence of the review finding
Indirectness	Relevance to the review question of the individual studies contributing to a review finding
Imprecision	Adequacy of data contributing to a review finding
Publication bias	Dissemination bias

What skills do you need to apply CERQual?

An understanding of systematic review methodology

An understanding of the principles of qualitative research

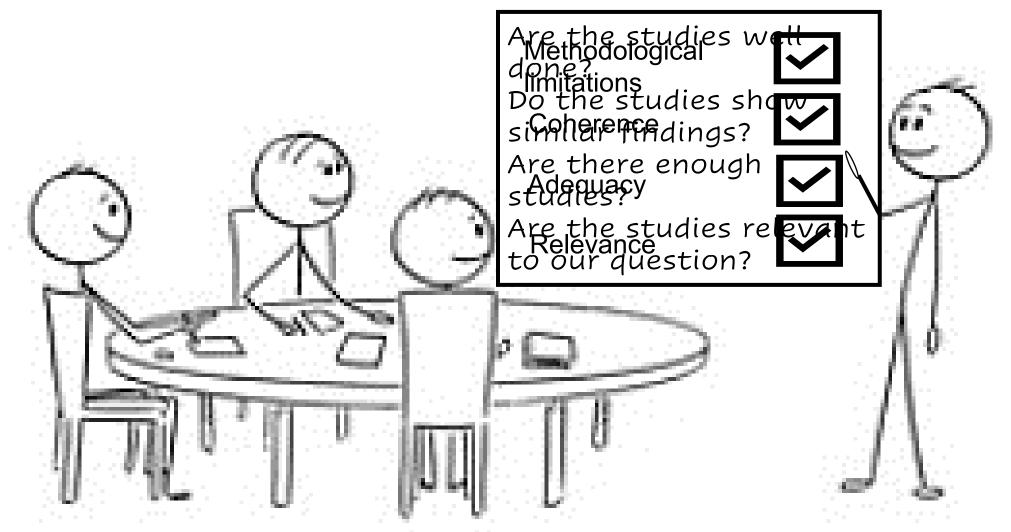




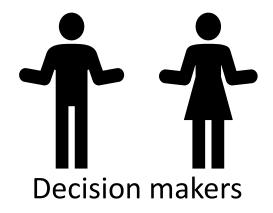
Homeless people prefer housing programmes that allow them to choose their own housing.

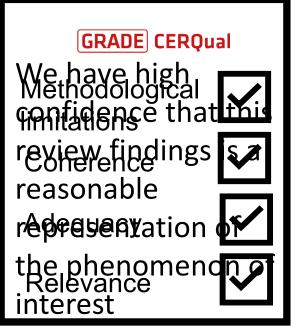






How much should we believe this finding?

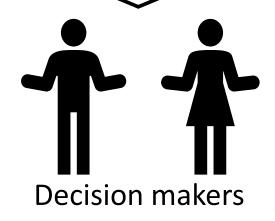








Thank you. We now know that we can have high confidence in the finding that homeless people prefer housing programmes that allow them to choose their own housing.





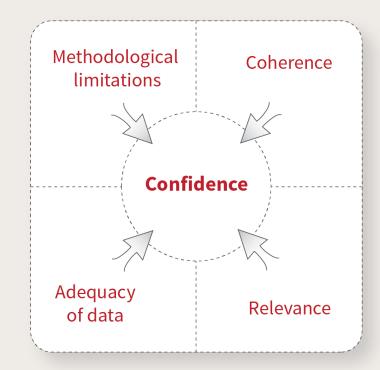
GRADE-CERQual approach (2)

Confidence in the evidence: the extent to which a synthesis finding is a reasonable representation of the phenomenon of interest

• i.e. the phenomenon of interest is unlikely to be substantially different from the research finding

A CERQual assessment of confidence is based on four components

The approach is applied to each analytic output of a synthesis (e.g., a theme or category) that describes a phenomenon or an aspect of a phenomenon



Overall aim of the approach:

To assess how much confidence we have in the evidence for the review finding

This is based on an assessment of

METHODOLOGICAL LIMITATIONS

of the individual studies contributing to the review finding

RELEVANCE

to the review question of the individual studies contributing to the review finding

COHERENCE

of the review finding

ADEQUACY OF DATA

contributing to the review finding

Objective:		Summary of Qualitative findings table			
Perspective:					
Included programmo	es:				
Review finding	Overall assessment of confidence in the refinding			E-CERQual assessment	Studies contributing data to the review finding
Review finding 1	XXX		XXX		XXX
Review finding 2	XXX		XXX		XXX

Aims of the CERQual Summary of Qualitative Findings (SoQF) table

- To encourage review authors to consider carefully what constitutes a finding in the context of their review, and to express these findings clearly
- To provide a structured summary of the review findings and the information contributing to the CERQual assessment for each finding
- To help ensure that review author judgements underlying CERQual assessments are transparent
- To facilitate the understanding and use of synthesis findings, including the uptake of findings into guidelines and other processes, by end users





CERQual Summary of Qualitative Findings tables

Objective: To identify, appraise, and synthesise qualitative research evidence on the barriers and facilitators to the implementation of lay health worker programmes for maternal and child health#

Perspective: Experiences and attitudes of stakeholders about lay health worker programmes in any country

Included programmes: Programmes that were delivered in a primary or community health care setting, that intend to improve maternal or child health, and that had used any type of lay health worker, including community health workers, village health workers, birth attendants, peer counsellors, nutrition workers, and home visitors

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CERQual Assessment of Confidence in the Evidence

Explanation of CERQual Assessment

Studies Contributing to the Review Finding

While regular salaries were not part of many programmes, other monetary and nonmonetary incentives, including payment to cover out-of-pocket expenses and "work tools" such as bicycles, uniforms, or identity badges, were greatly appreciated by lay health workers.

Some unsalaried lay health workers expressed

a strong wish for regular payment.

Moderate

Low

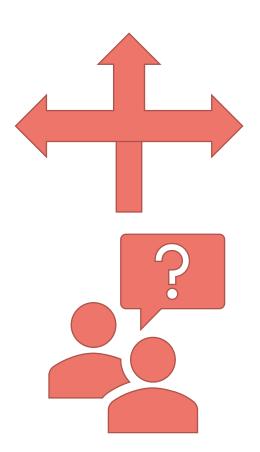
This finding was graded as moderate confidence because of minor concems regarding methodological limitations, relevance, coherence, and adequacy.

Studies 2; 5; 11; 12; 22; 29

This finding was graded as low confidence because of moderate concerns regarding relevance and substantial concerns regarding adequacy of data. Studies 5; 13



Qualitative evidence in decision making



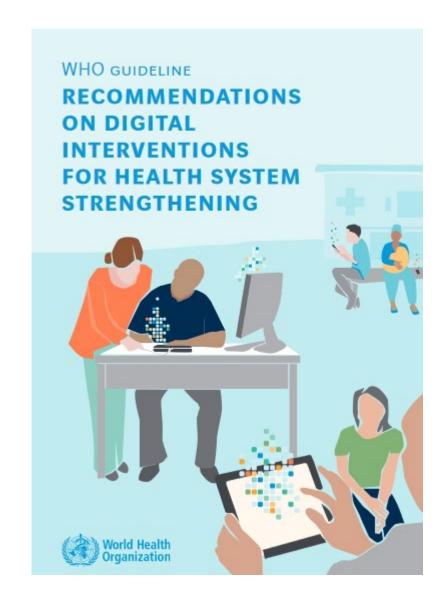


Example

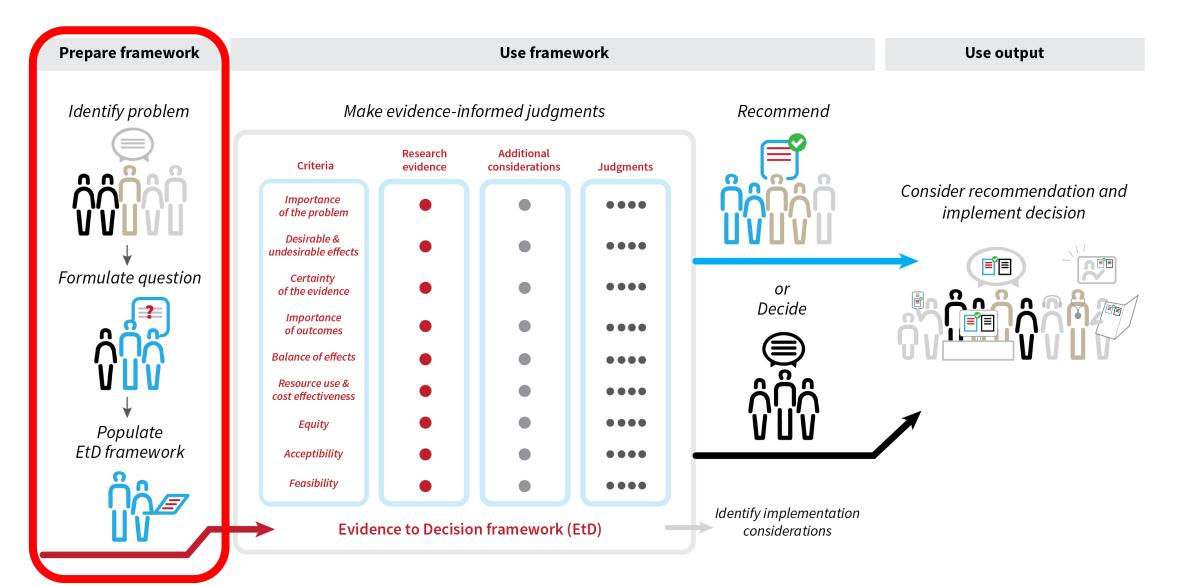
Using qualitative evidence syntheses in decision-making

World Health Organization guidelines on digital health:

Evidence-to-decision framework used to assess different types of evidence



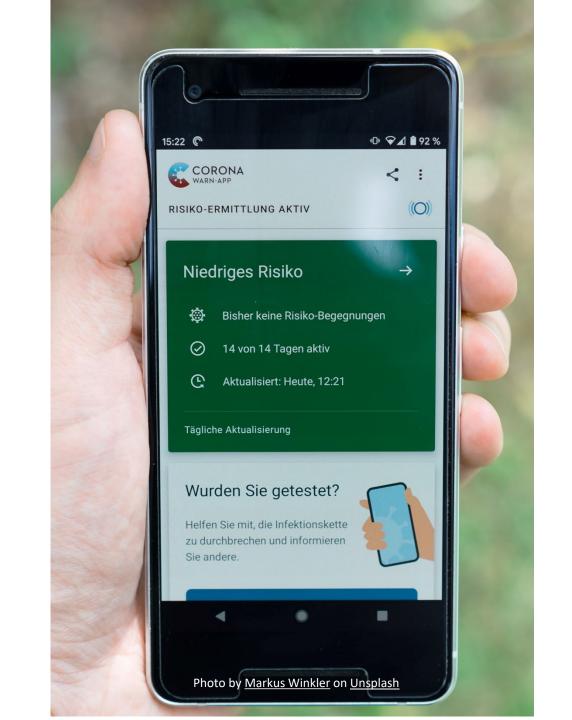
GRADE Evidence-to-decision process



One question: Should the WHO recommend targeted client communication via mobile phone?

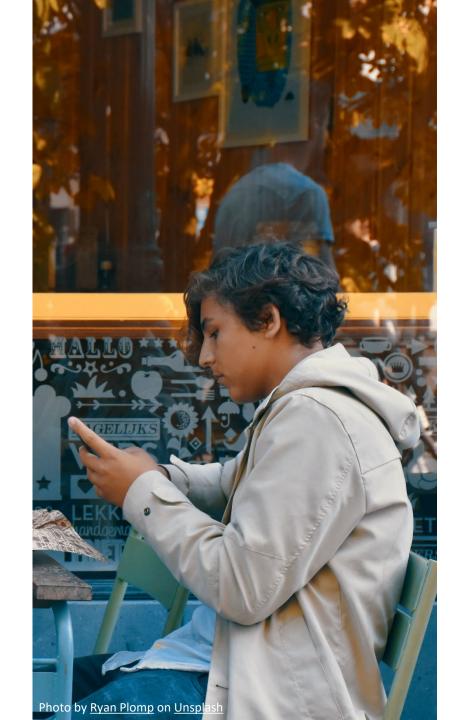
Giving targeted information to specific groups of patients and the public by mobile phone, for example:

- health promotion messages
- reminders about health services
- test results

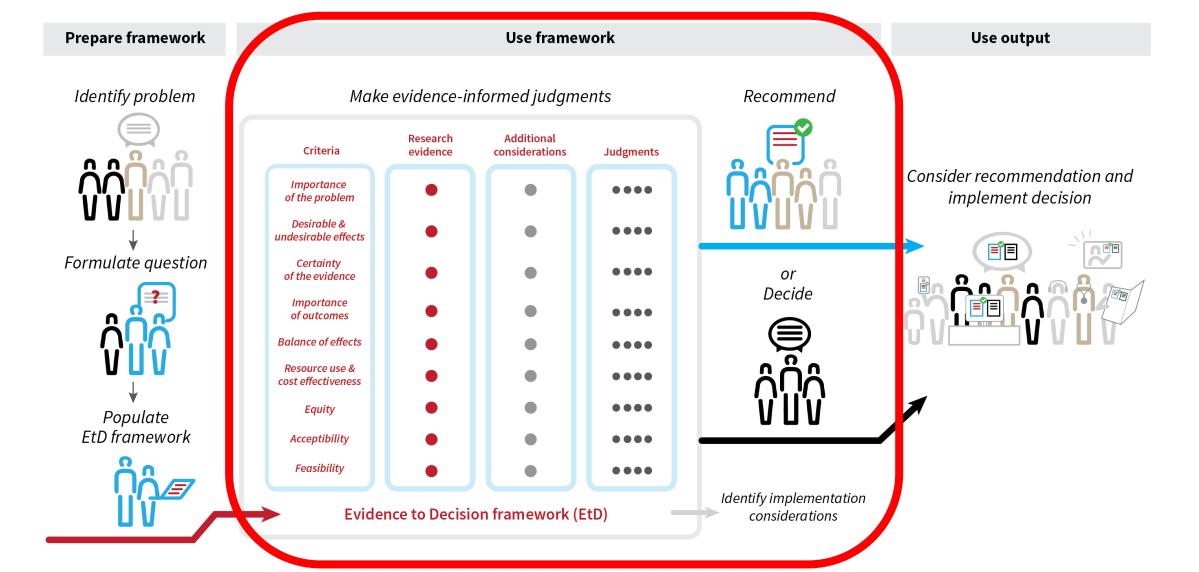


The WHO focused on:

- Adolescents and sexual/reproductive health
- Adults and sexual/reproductive health
- Pregnant women and postpartum women
- Parents of children under 5



GRADE Evidence-to-decision process



Targeted client communication via mobile phone: what effect does it have..

...on health service utilisation, health status, health behaviour?

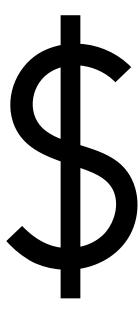
Cochrane Review of effectiveness (Palmer et al 2020):

- Many gaps in the evidence or low/very low certainty evidence
- Existing evidence shows mixed effects: probably some benefits for some outcomes; may make little or no difference to others

Targeted client communication via mobile phone: Cost / resource use

No systematic review prepared. Information based on expert opinion:

- Large start-up costs and large recurring costs



Targeted client communication via mobile phone: do people find it acceptable?

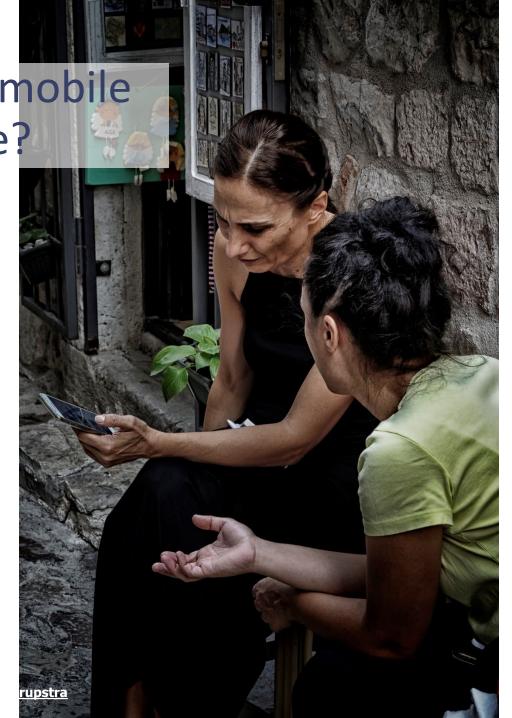
Cochrane Qualitative Evidence Synthesis (Ames et al 2018):

- Many clients positive to these services (moderate confidence):
 - Provides them with support and connectedness
 - Feels like someone is interested in their situation and cares about them
 - Gives a sense of direction, reassurance



Targeted client communication via mobile phone: do people find it acceptable?

...however, clients who are dealing with health conditions that are often stigmatised or very personal (e.g. HIV, family planning and abortion care)
 worry that their confidential health information will be disclosed (high confidence)



Targeted client communication via mobile phone: do people find it acceptable?

People's perceptions and experiences influenced by messages':

- Cost (high confidence)
- Content (moderate confidence)
- Frequency, timing (moderate confidence)
- Sender (moderate confidence)
- Length and language (low confidence)
- Tone (low confidence)

Targeted client communication via mobile phone: is it feasible?

Cochrane Qualitative Evidence Synthesis (Ames 2018):

 Problems in many settings with network connectivity, access to electricity, system integration and device usability (high confidence)



Targeted client communication via mobile phone: what is the impact on equity?

 Are certain groups of people likely to be systematically disadvantaged in relation to these services?

Cochrane Qualitative Evidence Synthesis (Ames 2018):

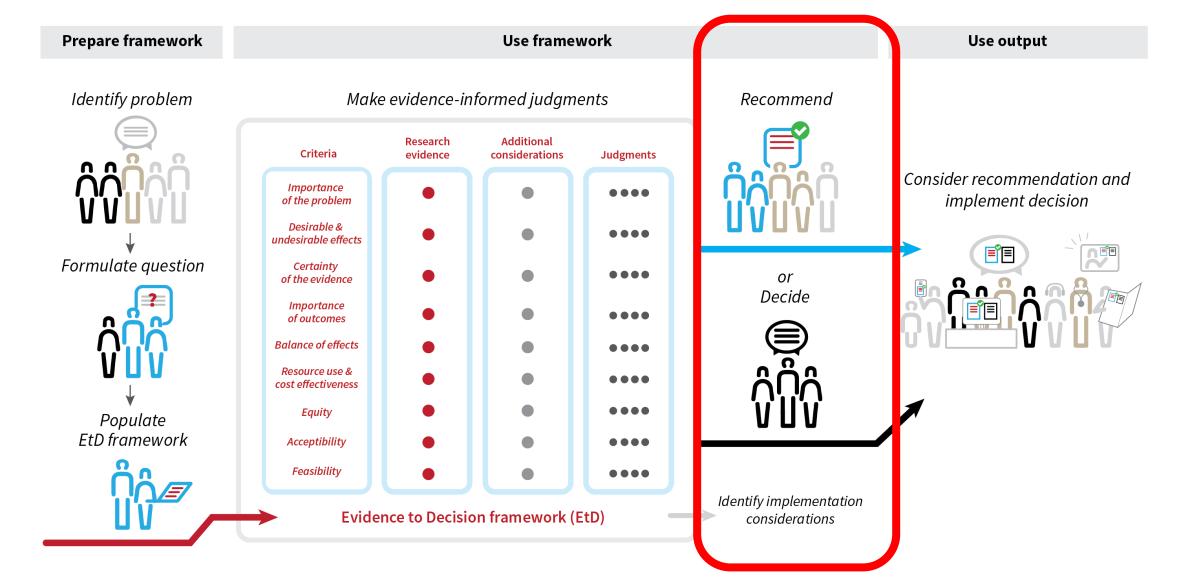
 These services may be particularly helpful to clients with caring or work responsibilities, clients who live far from health facilities and clients with few funds (low confidence)

Targeted client communication via mobile phone: what is the impact on equity?

...access to these services may be particularly difficult for:

- People with poor access to network or electricity (high confidence)
- People with stigmatised health conditions (concern about confidentiality issues)
 (high confidence)
- People who speak minority languages or who have low literacy skills or low digital literacy skills (moderate confidence)
- People with poor access to mobile phones, particularly women and adolescents, who may have to share or borrow a phone or who have access to phones controlled by others (moderate confidence)

GRADE Evidence-to-decision process



Making the recommendation

The panel assessed the evidence:

- Effectiveness unclear / mixed
- Large costs
- Widespread acceptability, but important conditions / exceptions
- Feasibility challenges
- Equity implications mixed



Making the recommendation

Should policy makers implement targeted client communication via mobile phone for adults, adolescents, pregnant women and parents to communicate about sexual and reproductive health?

- Recommend?
- Recommend with certain conditions?
- Recommend against?



Targeted client communication via mobile phone: what did the panel recommend?

Conditional recommendation: The intervention was recommended under the condition that potential concerns about sensitive content and data confidentiality can be addressed.

Implementation considerations: Implementers should:

- ensure access to network connectivity and electricity
- ensure that the content, format and delivery of information meets the needs of different target groups
- involve stakeholders in the design of the programme
- Etc



Qualitative evidence syntheses (QES) in decision making

WHO example: QES provided evidence about:

- acceptability, feasibility and equity issues
- implementation considerations

QES can also provide evidence about questions, interventions and outcomes that matter to people



GRADE-CERQual – making assessments of the 4 components

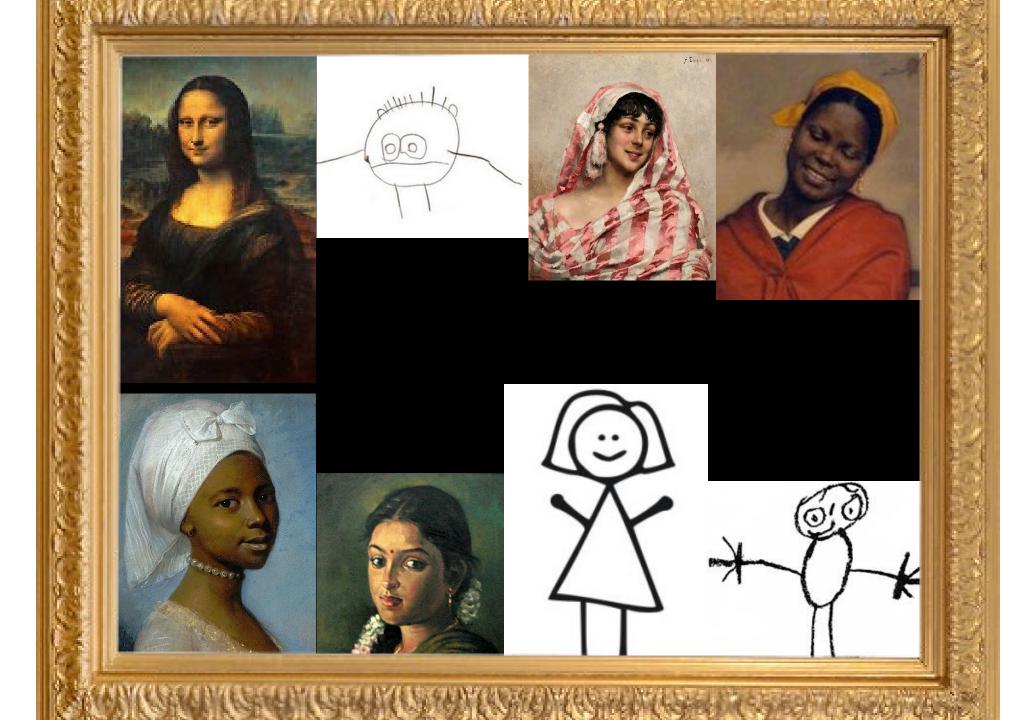


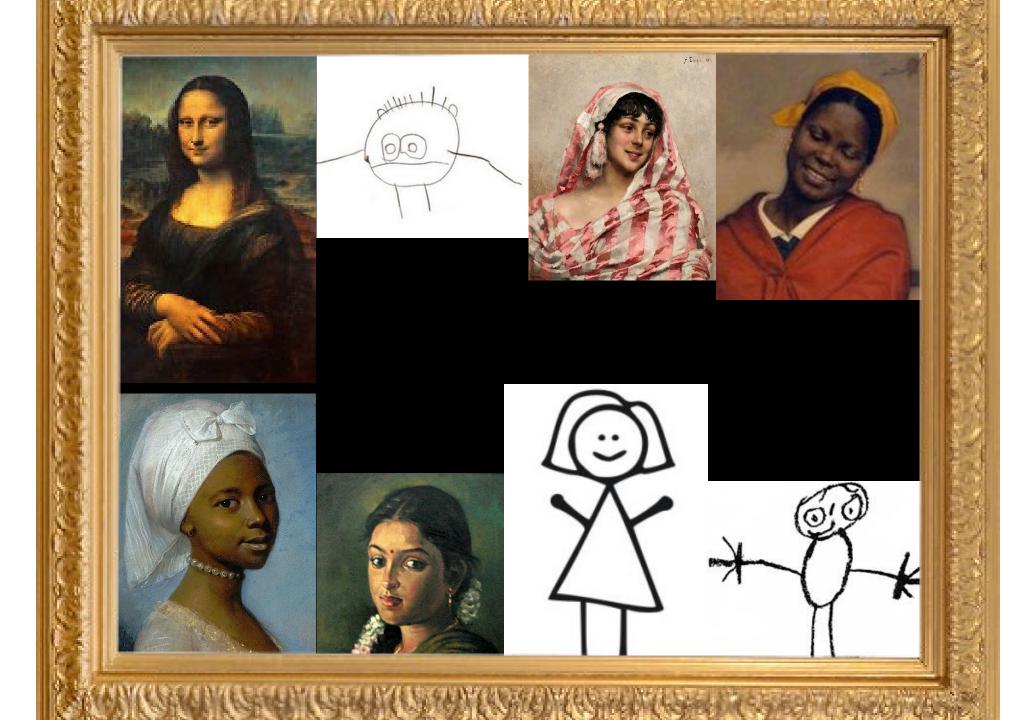
Example (based on Ames 2018):

"Many pregnant women are positive to receiving information and support from a peer support group through text messages. They see it as a source of support and connectedness, they feel like someone is interested in their situation and cares about them, and it gives them a sense of direction and reassurance."





























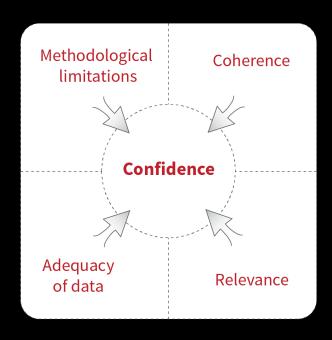


For each CERQual component, you need to identify your concerns and whether these are:

- No or very minor concerns
- Minor concerns
- Moderate concerns
- Serious concerns

After assessing all four components an overall assessment is made, expressed as either:

- High confidence
- Moderate confidence
- Low confidence
- Very low confidence



Remember...

- GRADE-CERQual is an approach for assessing how much confidence can be placed in <u>individual findings</u> from a systematic review of qualitative studies
- The approach is intended to help decision makers use evidence from systematic review of qualitative studies in their decision making processes
- A GRADE-CERQual assessment involves judgements. By being systematic and transparent, we hope to make the thinking behind the judgements explicit to users

Remember...



- GRADE-CERQual assessments are best done by the team who is conducting the systematic review of qualitative studies, as they will be familiar with the data
- The review team should have skills and experience in applying GRADE-CERQual

Additional resources

S Implementation Science



Introduction Open Access Published: 25 January 2018

Applying GRADE-CERQual to qualitative evidence synthesis findings: introduction to the series

Simon Lewin , Andrew Booth, Claire Glenton, Heather Munthe-Kaas, Arash Rashidian, Megan Wainwright, Meghan A. Bohren, Özge Tunçalp, Christopher J. Colvin, Ruth Garside, Benedicte Carlsen, Etienne V. Langlois & Jane Noyes

Implementation Science 13, Article number: 2 (2018) | Cite this article

44k Accesses | 389 Citations | 38 Altmetric | Metrics

Research | Open Access | Published: 08 August 2019

Qualitative Evidence Synthesis (QES) for Guidelines: Paper 1 – Using qualitative evidence synthesis to inform guideline scope and develop qualitative findings statements

Soo Downe, Kenneth W. Finlayson, Theresa A. Lawrie [™], Simon A. Lewin, Claire Glenton, Sarah Rosenbaum, María Barreix & Özge Tunçalp

Health Research Policy and Systems 17, Article number: 76 (2019) Cite this article

Research | Open Access | Published: 08 August 2019

Qualitative Evidence Synthesis (QES) for Guidelines: Paper 2 – Using qualitative evidence synthesis findings to inform evidence-to-decision frameworks and recommendations

Simon Lewin, Claire Glenton, Theresa A. Lawrie ☑, Soo Downe, Kenneth W. Finlayson, Sarah Rosenbaum, María Barreix & Özge Tunçalp

Health Research Policy and Systems 17, Article number: 75 (2019) Cite this article

Research | Open Access | Published: 08 August 2019

Qualitative Evidence Synthesis (QES) for Guidelines: Paper 3 – Using qualitative evidence syntheses to develop implementation considerations and inform implementation processes

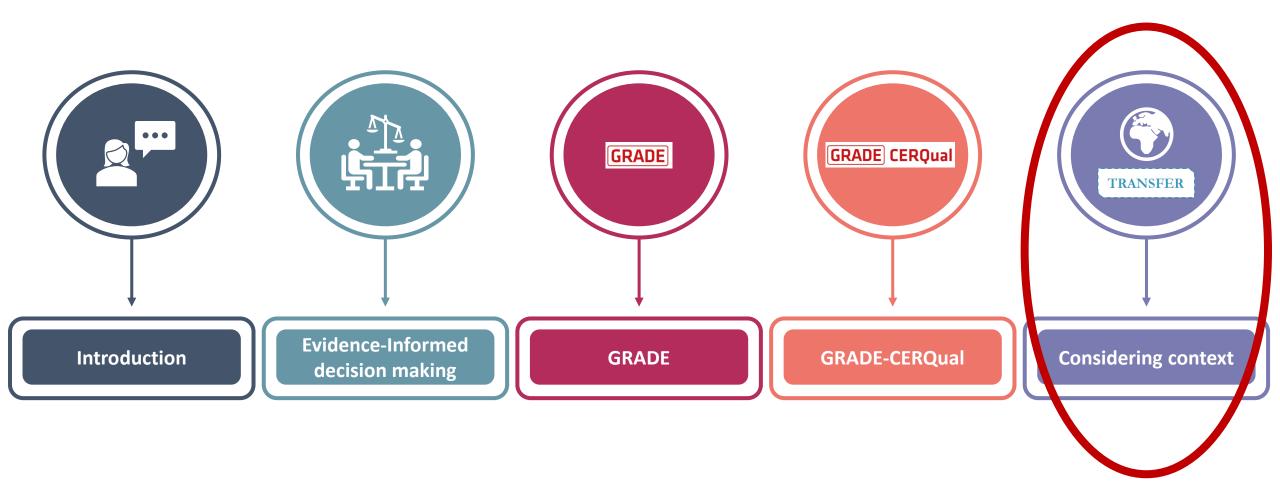
Claire Glenton, Simon Lewin, Theresa A. Lawrie ☑, María Barreix, Soo Downe, Kenneth W. Finlayson, Tigest Tamrat, Sarah Rosenbaum & Özge Tunçalp

Health Research Policy and Systems 17, Article number: 74 (2019) Cite this article





Overview





Considering context

Why consider context?

- Decision makers may be more likely to use the findings from systematic reviews when the findings were the result of collaborations between decision makers and researchers
- Discussing how the results are relevant for the decision makers, and which factors are important for contextualizing the evidence may improve uptake of evidence



Need to consider when making a GRADE assessment





- 1. Differences in population (applicability)
- 2. Differences in interventions (applicability)
- 3. Differences in outcomes measures (surrogate outcomes)
- ✓ 4. Indirect Comparisons (A v B = A v C + B v C)

Need to consider when making a GRADE-CERQual assessment



Relevance

- Direct relevance
- Indirect relevance
- Partial relevance

How to consider context?



- In collaboration with relevant stakeholders and experts
- Systematically
- Transparently
- From the beginning of the systematic review process

TRANSFER approach

Guidance for review authors on how to:

- 1. Improve collaboration with decision makers to
- 2. Systematically and transparently consider and assess transferability of review findings to the review context

Munthe-Kaas et al. BMC Medical Research Methodology https://doi.org/10.1186/s12874-019-0834-5

(2020) 20:1

BMC Medical Research Methodology

RESEARCH ARTICLE

Open Access

The TRANSFER Approach for assessing the transferability of systematic review findings



Heather Munthe-Kaas1*, Heid Nøkleby1, Simon Lewin12 and Claire Glenton13

Abstract

Background: Systematic reviews are a key input to health and social welfare decisions. Studies included in systematic reviews often vary with respect to contextual factors that may impact on how transferable review findings are to the review context. However, many review authors do not consider the transferability of review findings until the end of the review process, for example when assessing confidence in the evidence using GRADE or GRADE-CERQual. This paper describes the TRANSFER Approach, a novel approach for supporting collaboration between review authors and stakeholders from the beginning of the review process to systematically and transparently consider factors that may influence the transferability of systematic review findings.

Methods: We developed the TRANSFER Approach in three stages: (1) discussions with stakeholders to identify current practices and needs regarding the use of methods to consider transferability, (2) systematic search for and mapping of 25 existing checklists related to transferability, and (3) using the results of stage two to develop a structured conversation format which was applied in three systematic review processes.

Results: None of the identified existing checklists related to transferability provided detailed guidance for review authors on how to assess transferability in systematic reviews, in collaboration with decision makers. The content analysis uncovered seven categories of factors to consider when discussing transferability. We used these to develop a structured conversation guide for discussing potential transferability factors with stakeholders at the beginning of the review process. In response to feedback and trial and error, the TRAN SFER Approach has developed, expanding beyond the initial conversation guide, and is now made up of seven stages which are described in this article.

Condusions: The TRANSFER Approach supports review authors in collaborating with decision makers to ensure an informed consideration, from the beginning of the review process, of the transferability of the review findings to the review context. Further testing of TRANSFER is needed.

Keywords: Transferability, Applicability, Indirectness, Relevance, Evidence, Systematic review methodology, GRADE, GRADE-CERQual, Stakeholder engagement

Why consider context?

Identify **need** for a systematic review

Collaborate with decision makers to refine PICO

Identify transferability factors

Define characteristics of review context related to transferability factors

Define inclusion and exclusion criteria

Develop search strategy for relevant databases, grey literat

Screen titles/abstracts and full text for inclusion

Assess methodological strengths and limitations of included

Extract relevant data from included studies

Synthesize data: Meta-analyse data, or narrative review

GRADE/-CERQual certainty of evidence (indirectness / relevance)



What factors could influence transferability of the review findings?

Stakeholders receive the systematic review findings



- They are dissatisfied with review
 - Review question does not exactly what they were interested in
 - Doubtful that the findings will apply to their setting



Why consider context?

Identify **need** for a systematic review

Collaborate with decision makers to refine PICC

Identify transferability factors

What factors could influence transferability of the review findings?

Define characteristics of review context related to transferability factors

Define inclusion and exclusion criteria

Develop search strategy for relevant databases, grey literature

Screen titles/abstracts and full text for inclusion

Assess methodological strengths and limitations of included studies

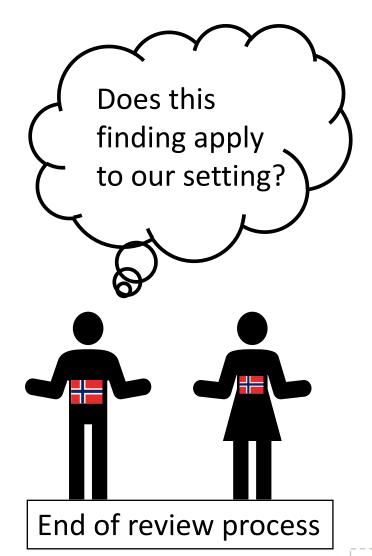
Extract relevant data from included studies

Synthesize data: Meta-analyse data, or narrative review

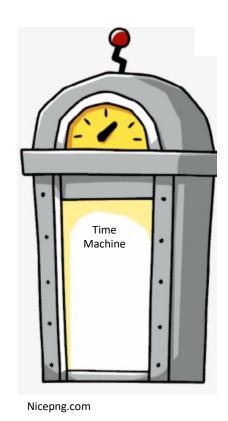
GRADE/-CERQual certainty of evidence (indirectness / relevance)



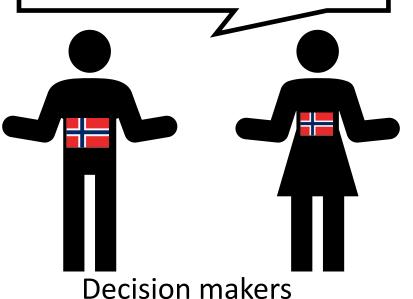
Homeless people prefer housing programmes that allow them to choose their own housing



Let's consider context before we conduct the systematic review...



We are wondering about housing programmes for homeless people in Norway...



We can help you!



Beginning of review process

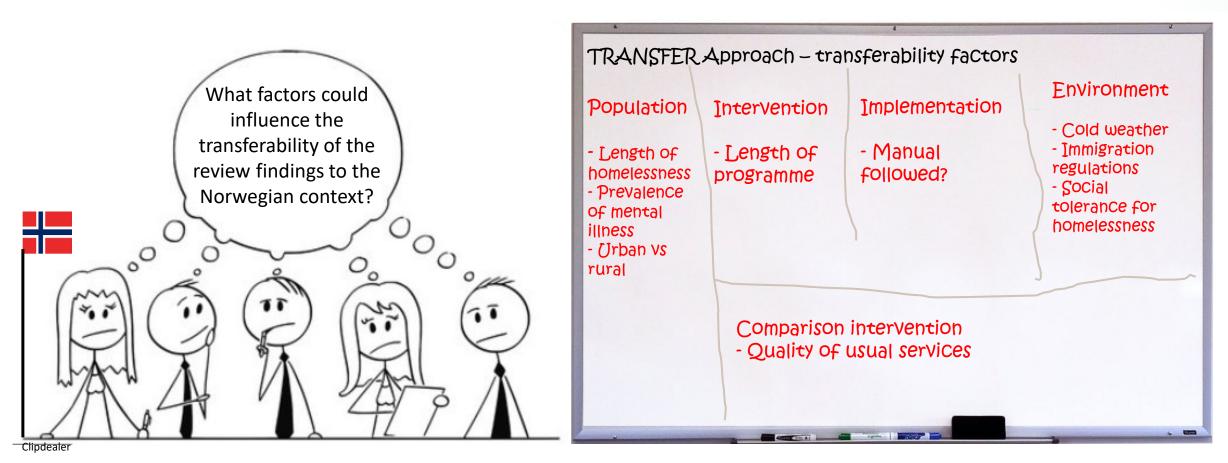


Stakeholders and review authors

TRANSFER Factor	Would you be concerned if data comes from contexts where	Example	Notes		
Environmental context					
Temporal context	the data was collected at a different point in time?	e.g., studies conducted before 2000			
Geopolitical context	the geographical, political or economic context is different?	e.g., studies conducted in post-conflict settings, settings where there is famine, high income settings, democratic settings, settings with colder/warmer temperatures, rural or urban settings			
Health or welfare system context	the health or welfare system is arranged differently?	e.g., free versus fee-based primary health care, comprehensive vs. limited family welfare services			
Local professional/Expert opinion	local professional/expert opinions are different?	e.g., experts are explicitly in favor or/against the intervention			
Community acceptability	the local community has a different level/degree of acceptability for the intervention or the condition being addressed by the intervention?	e.g. religious reasons, ethical reasons, other social reasons			
Existence of alternative and/or co-existing interventions	participants are exposed to alternative or supplemental interventions while participating in the intervention under examination?	e.g. contexts where all parents of small children are provided with free family counselling at the same time as they participate in a study where the intervention is online counselling for families with small children			
Participants		-			
Participant characteristics	participants are different with respect to demographic characteristics, level of education, etc.?	e.g., studies on participants older/younger than those in your context, contexts with a different gender ratio,			
Participant compliance	participants are different with respect to how well they follow instructions?	e.g., studies on pedestrian interventions to improve traffic safety in contexts where people are more/less likely to follow traffic rules			
Availability of personal support for participants	participants have different access to personal support networks?	e.g., contexts where families live close by vs. individualistic cultures			
Characteristics of illness / condition and comorbidities	participants' condition or illness and comorbidities are different?	e.g., studies on premenstrual symptoms from Asian cultures versus western cultures where research suggests a difference in how women experience these conditions			
Participant acceptability and preferences	participants level of acceptability and/or preferences regarding interventions/treatment, etc. are different?	e.g., studies of colon cancer screening interventions for men from contexts where they prefer to be called into/make their own annual appointments			
Participant need for / access to information	participants have a different need for/access to/expectation of information?	e.g., studies from contexts where participants have a greater expectation of receiving comprehensive and detailed information regarding their treatment/intervention			
Intervention					
Details related to the intervention	the intervention components/stages/phases/elements are routinely/consistently differ from your context?	These issues may be covered in while defining the review question and covered under inclusion/exclusion criteria in some cases.			
	the intervention has a different duration, frequency, intensity?	These issues may be covered in while defining the review question and covered under inclusion/exclusion criteria in some cases.			
	the intervention is delivered in a different setting?	These issues may be covered in while defining the review question and covered under inclusion/exclusion criteria in some cases.			
	the availability and/or characteristics of materials/manuals for delivering the intervention is different?	These issues may be covered in while defining the review question and covered under inclusion/exclusion criteria in some cases.			
	the intervention is delivered differently than it would be in a "real life setting"?	e.g. laboratory/efficacy studies			
	the intervention has been tailored?	These issues may be covered in while defining the review question and covered under inclusion/exclusion criteria in some cases.			
	the intervention is not delivered according to how it should be (i.e. implentation fidelity)?	e.g., the study authors describe clear deviations from how the intervention is intended to be developed (checklists such as TIDier could be helpful here)			
Category / status of the intervention	the intervention is categorized differently?	e.g. policy, practice, programme, guideline			
Implementation of the intervention	the intervention is delivered by service providers who differ from those in your setting?	e.g., number of service providers, characteristics of service providers, such as training or still level or type/status of service providers' position, their compliance with implementation directions, any other factors that may influence their motivation to implement the intervention, such as religious beliefs, cultural background or support from leadership/colleagues?			
	the intervention is implemented by an organization that differs from those that would be expected to implement the intervention in your setting?	e.g., type of organization, size/structure, culture, policies, service and financing systems, interagency working relationships, available/allocated resource, communication/endorzement of intervention, evolution/sustainability of intervention			
Comparison intervention					
	the quality or comprehensiveness of the comparison intervention is different?	This is likely to be important for the transferability of most interventions			
	"usual services" is different with respect to quality, comprehensiveness or content?	This is likely to be important for the transferability of most interventions			
Outcomes					
	the way an outcome is defined or measured is different, including length and intensity of follow-up?	e.g., culturally different scales to measure quality of life, long-term versus short-term follow-up $$			
	the way an outcome is prioritized (by clients/patients) is different?	e.g., patient-important outcomes			

TRANSFER conversation guide

TRANSFER factor	Would you be concerned if data come from contexts where	Example			
Temporal context	the data was collected at a different point in time?	e.g., studies conducted before 2000			
Geopolitical context	the geographical, political or economic context is different?	e.g., studies conducted in post-conflict settings, settings where there is			

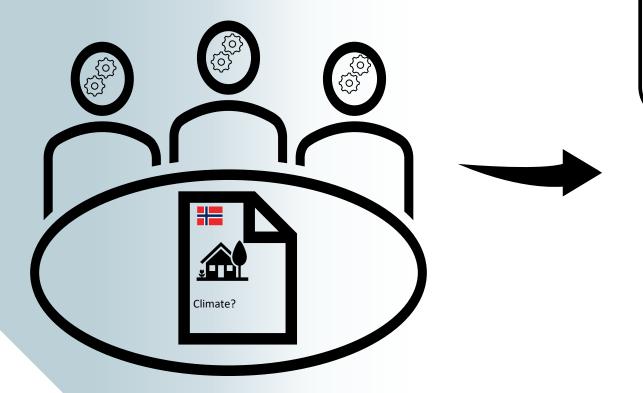


Stakeholders and review authors



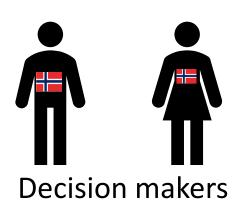


Review team



We don't have serious concerns about the transferability of the finding to the Norwegian context. Data comes from studies that were done in cold countries.













Supporting a GRADE assessment of indirectness?

Table 8.1.2. Comparison 1.A.2 – GRADE Evidence Profile for high intensity case management compared to low intensity case management

Author(s): Heather Munthe-Kaas, Rigmor Berg

Date: 11.11.2016

Question: High intensity case management compared to low intensity case management for improving housing stability and reducing homelessness

Setting: USA

Bibliography: Essock 2006; Drake 1998; Morse 1997

	Quality assessment					№ of patients		Effect				
N₂ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	high intensity case	low intensity case	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Mean number	Mean number of days spent in stable housing (follow up: 36 months; assessed with: self-report)											
2	randomised	serious 1	Senous ³	not serious	not serious ²	none	204	197	-	SMD 0.1	000	
	trials									SD higher	LOW	
										(0.1 lower to		
										0.29 higher)		

Review finding: Hou	ising programmes l	ead to fewer days spent homeless compared to usual services		
TRANSFER factors	Assessment	Explanation	Supporting studies	intervention group reported more da
Length of homelessness of participants	No concerns	The studies represented a range of participants with length of homelessness at baseline rangeing from 1 month to more than 4 years. All of the studies showed the same direction of effect.	1-10	
Climate	Minor concerns	The studies only partially represented the review context (cold climates). We are unsure if the finding is tranfserable to settings with warm or temperate climates.	1-10	
Overall assessment	Minor concerns	There are no substantial differences between the included studies and the review context with respect to length of homelessness. However, the review finding is only based on evidence from cold climate settings, and we do not have any evidence available regarding how the intervention may work in warm settings.	1-10	

Supporting a GRADE assessment of indirectness?

Housing programmes compared to usual services for reducing homelessness and improving housing stability in Norway

Patient or population: Adults who are homeless Setting: USA, Canada, Denmark, Australia Intervention: Housing programmes Comparison: Usual services

Quality assessment								Summary of findings				
Nº of participants	Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	Overall quality of	Study event rat	Study event rates (%)		Anticipated absolute effects		
(studies) Follow-up	Dias				Uids	evidence	Usual services	Housing First	effect (95% CI)	Risk with Usual services	Risk difference with Housing First	
Number of	Number of days spent in stable housing (12 months)											
3027 (10 RCTs)	Not serious	Not serious ¹	Serious ²	Not serious	none	⊕⊕⊕○ MODERATE	1502	1525	-	-	SMD 20.24 days more (15.11 to 25.37)	

CI: Confidence interval; MD: Mean difference

- 1. Large inconsistency, however a priori hypotheses related to length of homelessness and quality of usual services can explain heterogeneity.
- No concerns regarding differences between studies and review context with respect to length of homelessness. Minor concerns regarding differences between studies and review context related to climate. Only cold climates represented in the data.

Supporting a GRADE-CERQual assessment of relevance?

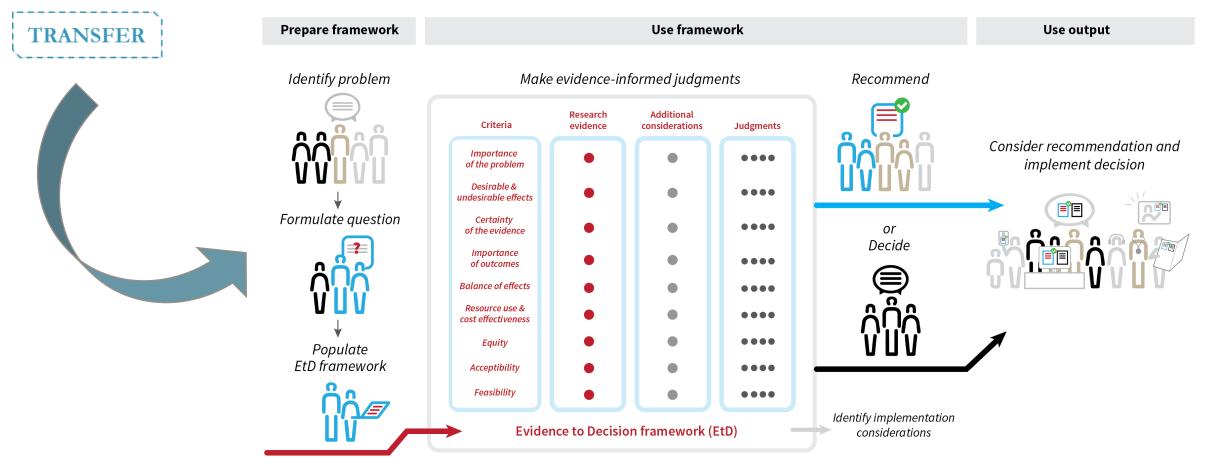
Finding	Summary of review finding	Studies contributing to the review finding		Coherence	Relevance	Allequacy	CERQual assessment (confidence in the findings)	Explanation of CERQual assessment
Factors af	ecting experience of I	being homeless						
1	Participants who receive housing programmes experience less stress and are more positive to long term opportunities	Study a, study b, study c, study d, study e, study f, study g, study h, study i,	Minor concerns regarding methodological limitations due to issues with reflexivity	Minor concerns regarding coherence	Minor concerns regarding relevance	No concerns regarding adequacy	Moderate confidence	Due to minor concerns regarding methodological limitations, coherence, and relevancy.

Review finding: Participants who receive housing programmes experience less stress and are more positive to long term opportunities							
TRANSFER factors	Assessment Explanation	Supporting studies					
х	No concerns	1-10					
Υ	No concerns	1-10					
Z	Minor concerns	1-10					
Overall assessment	Minor concerns	1-10					





GRADE Evidence-todecision process



16/6/2023

In summary...



- Systematic reviews of social interventions can be challenging
- We need to assess and communicate our certainty and confidence in findings from systematic reviews
- We need to consider context in systematic reviews
- We need to work with stakeholders throughout the systematic review to ensure a systematic, transparent process with useful and relevant results

Thanks!



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Heather.munthe-kaas@fhi.no