Factors that can weaken the strength	Decision	Explanation
of a recommendation. Example: treatment of H5N1 patients with		
oseltamivir		
Lower quality evidence	⊠ Yes	The quality of
Lower quanty evidence		evidence is very
		low.
Uncertainty about the balance of	⊠ Yes	The benefits are
benefits versus harms and burdens	□ No	uncertain
		because several
		important or
		critical outcomes
		were not
		measured.
Uncertainty or differences in values	Yes	All patients and
	🗵 No	care providers
		would accept
		treatment for
		H5N1 disease.
Marginal net benefits or downsides	☐ Yes	The potential
	⊠ No	benefit is very
		large despite
		potentially small
		relative risk
		reductions.
Uncertainty about whether the net	☐ Yes	For treatment of
benefits are worth the costs	⊠ No	sporadic patients
		the price is not
E	11116	too high.

Frequent "yes" answers will increase the likelihood of a weak recommendation. doi:10.1371/journal.pmed.0040119.g003

Figure 3. Decisions about the Strength of a Recommendation

Evidence to decision tables

- Transparent for decision making
- Not granular enough for complex decision making in health policy and public health
- Feasibility and acceptability issues important for international guideline developers
- Different decisions need adaptable frameworks
 - Coverage, health systems, diagnostic
- GRADE's DECIDE project (2011-2015)
 - Improving EtD tables

the**bmj** | BMJ 2016;353:i2016 | doi: 10.1136/bmj.i2016



GRADE Evidence to Decision (EtD) frameworks: a systematic and transparent approach to making well informed healthcare choices. 1: Introduction

Pablo Alonso-Coello, 1,2 Holger J Schünemann, 2,3 Jenny Moberg, 4 Romina Brignardello-Petersen, 2,5 Elie A Akl.^{2,6} Marina Davoli.⁷ Shaun Treweek.⁸ Reem A Mustafa.^{2,9} Gabriel Rada.^{10,11,12} Sarah Rosenbaum, ⁴ Angela Morelli, ⁴ Gordon H Guyatt, ^{2,3} Andrew D Oxman ⁴ the GRADE Working Group



GRADE Evidence to Decision (EtD) frameworks: a systematic and transparent approach to making well informed healthcare choices. 2: Clinical practice guidelines

Pablo Alonso-Coello, 1,2 Andrew D Oxman, 3 Jenny Moberg, 3 Romina Brignardello-Petersen, 2,4 Elie A Akl,^{2,5} Marina Davoli,⁶ Shaun Treweek,⁷ Reem A Mustafa,^{2,8} Per O Vandvik,³ Joerg Meerpohl,⁹ Gordon H Guyatt, ^{2,10} Holger J Schünemann, ^{2,10} the GRADE Working Group

ELSEVIER

Journal of Clinical Epidemiology ■ (2016) ■

ORIGINAL ARTICLE

GRADE Guidelines: 16. GRADE evidence to decision frameworks for tests in clinical practice and public health

Holger J. Schünemann^{a,b,c,*}, Reem Mustafa^{a,c,d}, Jan Brozek^{a,b,c}, Nancy Santesso^{a,c}, Pablo Alonso-Coello^{a,c,e}, Gordon Guyatt^{a,b,c}, Rob Scholten^f, Miranda Langendam^{c,g}, Mariska M. Leeflang^g, Elie A. Akl^{a,c,h}, Jasvinder A. Singh^{c,i}, Joerg Meerpohl^{c,j},

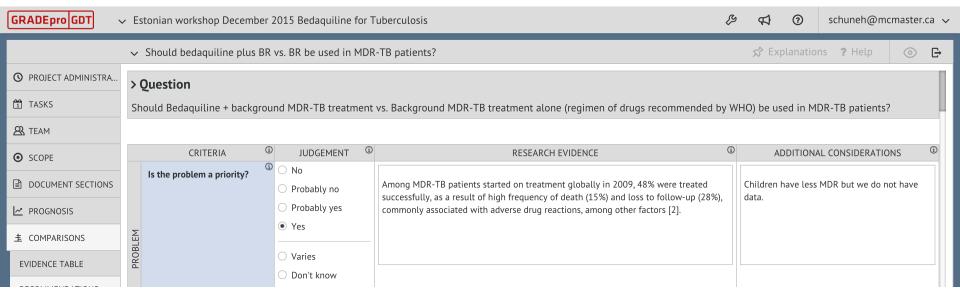


Development GRADE Evidence to Decision (EtD) Frameworks

An iterative 5-year process:

- GRADE Working Group's approach to EtD
- Review of relevant literature and surveys
- Brain storming
- Feedback from stakeholders
- Application to examples (>100 recs) across health topics
- User testing

EtD frameworks



- Criteria on which a recommendation is based
- Judgements that must be made in relation to each criterion
- Research evidence to inform each judgement
- Additional considerations that inform or explain each judgement

GRADE Evidence to Decision (EtD) framework

Can help guideline panels (and decision makers) move from evidence to a recommendation or decision by

- Informing judgements about the pros and cons of each option (intervention)
- Considering each important factor that determine a decision (criteria)
- Providing a concise summary of the best available research evidence to inform judgements
- Helping to structure discussion and identify reasons for disagreements
- Making the basis for decisions transparent and adaptable for target audiences

RESEARCH Open Access



The GRADE evidence-to-decision framework: a report of its testing and application in 15 international guideline panels

Ignacio Neumann^{1,2}, Romina Brignardello-Petersen^{1,3}, Wojtek Wiercioch¹, Alonso Carrasco-Labra^{1,3}, Carlos Cuello¹, Elie Akl⁴, Reem A. Mustafa^{1,5}, Waleed Al-Hazzani¹, Itziar Etxeandia-Ikobaltzeta^{1,7}, Maria Ximena Rojas⁸, Maicon Falavigna⁹, Nancy Santesso¹, Jan Brozek^{1,6}, Alfonso Iorio¹, Pablo Alonso-Coello^{1,10} and Holger J. Schünemann^{1,6*}

OPEN & ACCESS Freely available online

PLOS MEDICINE

Health in Action

Transparent Development of the WHO Rapid Advice Guidelines

Holger J. Schünemann*, Suzanne R. Hill, Meetali Kakad, Gunn E. Vist, Richard Bellamy, Lauren Stockman, Torbjørn Fosen Wisløff, Chris Del Mar, Frederick Hayden, Timothy M. Uyeki, Jeremy Farrar, Yazdan Yazdanpanah, Howard Zucker, John Beigel, Tawee Chotpitayasunondh, Tran Tinh Hien, Bülent Özbay, Norio Sugaya, Andrew D. Oxman

l.	SIII	oura ACF recommena aletar	y interventions for preventing kidney stories	recurrencer						
	char Con Sett	ulation: Adults with a history of one of rvention: dietary interventions (indivi- racteristics) mparison: placebo, usual care, no tre- ting: outpatients spective: individual patient	dual or multicomponent, including empiric dietary intervention	milions or diels tailoned to palle Seekground: Ulatima incidence of listory stores is 15% for my self-control of the self-control of the Seek Control of the Seekground Seekground: Ulatima incidence of listory stores in 15% for my self-control of the Seekground Seekground: Ulatima incidence of listory stores self-control of the Seekground Seekground: Ulatima incidence of listory stores self-control of the Seekground Seekground: Ulatima incidence of listory stores self-control of the Seekground Seekground: Ulatima incidence of listory stores self-control of the Seekground Seekground: Ulatima incidence of listory stores self-control of the Seekground Seekground: Ulatima incidence of listory stores self-control of the Seekground Seekground: Ulatima incidence of listory stores self-control of the Seekground Seekground: Ulatima incidence of listory stores self-control of the Seekground Seekground: Ulatima incidence of listory stores self-control of the Seekground Seekground: Ulatima incidence of listory stores self-control of the Seekground Seekground: Seekground Seekground				men and 7% for women. After a symptomatic stone event, nt. Annual direct costs in the United States may exceed \$ ses is uncertain.		
		DOMAIN	JUDGEMENTS	RESEARCH EVIDENCE			ADDITIONAL CONSIDERATIONS/EXPLANATIONS			
1		Is the problem a priority?	No Probably Uncertain Probably Yes Varies Yes	The lifetime indicates of kidney shores is approximately 13% for man and 7% for some Albrugh kidney shores in approximately 13% for man and 7% for some Albrugh kidney shores may be approximately consequences include abbronned and tests plant exceed and vorning, unimp stort obstaction, infection, and procedure-related mortifiely. The 5-year recurrence rate in the absence of specific restrainers is 35 to 60 procent. Determined associated with kidney stories may exceed \$4.5 billion annually in the United States.		Reports conflict regarding whether or not incidence is coveral, but consistently indicate rising incidence in wo and a falling made-to-female ratio. Place for the conflict state of the conflict state. Place for the conflict state of the conflict state or primary hyperathyrolidism, obesidabetes, gout, and intestinal malabsorption, and due to match				
/				Τηε ρελατι ω ε τχομεσ οφ ιντ		ανχε ορ	ω αλυ:	σ οφ τ	ηε μαιν ου	Values and preferences are considered from patients perspective. No formal assessment of patient's values and preference.
				Outcome		elative portanc e		Certaint evid	y of the ence	and no evidence found. However, considering the outclisted, their relative importance appears clear.
	so.	Is there certainty in the relative importance or values of the main	Agree Somewhat Uncertain Somewhat Disagree disagree	Symptomatic recurrence	C	ritical				
/	& HARMS	outcomes of interest?		Composite recurrence	C	ritical	w	as iden	h evidence tified but ons seem	
	BENEFITS			Radiographic recurrence	j lm	portant	··· as	cle		
>	BE			Withdrawals	lm	portant				
→ ·		What is the balance of the benefits and harms/burden?	Benefits outweigh harmulaurden* Benefits and transburden Benefits signify outweigh harmsburden Benefits and transburden are balanced Harmsf burden signify outweigh benefits Harmsf burden outweigh benefits	Critical and Important Outcomes: 1. Symptomes 2. Composite recurrence: effective interventions 2. Composite on effective interventions 4. Composite on effective interventions 4. Radiographic recurrences 4. Withdrawalss	Large benefit	Small benefit	No effect	Small hams' burden	Modest ham/ ham/ burden	* For interventions that showed statistically significant reflects. For other interventions, the batteries is less dies 'Reduced soft-drink' intake vs. no treatment showed a 'Reduced soft-drink' intake vs. no treatment showed a 'British of the 'Reduced soft-drink' intake vs. no treatment showed a 'British of the 'Reduced soft-drink' intake vs. (10 Ag), layer profess and colonium, and normal conclaims us, low caterial design 'Reduced soft-drink' intake vs. (10 Ag), layer profess and colonium, and normal conclaims us, low caterial design 'Reduced soft-drink' intake vs. (10 Ag), and instruction on thing in dark and calcular intake vs. (10 Ag), and instruction on the colonium and normal profess in high fiber intake 'Reduced
7	PAEFEAENCE	Is there similarity about how much people value the critical and important outcomes?	Similar Probably Uncertain Probably Not similar not similar not similar	There is no research ev for the main outcomes.	idence inforr	ning about t	he relative	importano	e and similarity	The guideline panel believes, based on experience with affected patients, the value of the main outcomes with respect to each other seem to be clear with little variab
	URCES	Are the resources required small? (may skip for individual patient perspective)	No Probabily Uncertain Probabily Yes Varies Yes Uncertain Probabily Yes Varies Yes Uncertain Probability Yes Varies	A cost effectiveness and stones using dietary inte initial medical evaluation 2005; 33: 223).	erventions is	approximat	ely USD 2	4 in USA	this includes and	The cost varied across different settings. While cost in USA where USD 234, lower cost was observed in othe settings: Cemary USD 32, Canada USD 54, and TWL USD 66, UK USD 179 and Sweden (USD 196). These differences result from cost or medical evaluation and treatment using different detex. A proper systematic rev of these cost is not available.
	RESOUR	Is the incremental cost (or resource use) small relative to the benefits?	No Probably Uncertain Probably Yes Varies No Yes □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □							The costs of ureterescopy and stone fragmentation is I 4185 in the USA (Lotan, Urol Res 2005; 33: 223). Thus cost of prevention appears much lower than that of treatment due to recurrence. Since the effective dietary, interventions seem to have a large effect, the costs wo
	EQUITY	What happens to health inequities?	Increas Probabl Uncertai Probabl Reduce Varie ed y n y d increase reduced d	No evidence was identif	ied addressi	ng this dom	ain.			It is likely that this intervention has no impact on inequibut there is uncertainty.
L	Is the option acceptable to key stakeholders?		n y No Yes	Dietary interventions are that seem to be effective however, all of them has adherence) is uncertain	e could poter ve high acce	ntially have	a high con	pliance that	an others;	
\4		Is the option feasible to implement?*	No Probably Uncortain Probably Yes Varies No Yes	No evidence was identif	ied addressi	ng this dom	ain.			Some of the effective options are more feasible to implement than the others (for example, increase fluid intake seems to be more feasible to implement than tai diet); however, all of them are feasible.



Question/Problem

Benefits and harms

Quality of evidence

Values

Equity

Resources

Feasibility

Acceptability

Recommendation

Should ACP recommend any dietary intervention for preventing kidney stones recurrence?

Overall balance of consequences

Undesirable

We recommend against

Recommendation

consequences clearly probably outweigh desirable consequences

We suggest not to use the

The balance between desirable and undesirable consequences the consequences is too uncertain.*

No recommendation

The balance of desirable and undesirable consequences indicates they are very similar*

Desirable consequences probably outweigh undesirable consequences Desirable consequences clearly outweigh undesirable consequences

Criteria	How the factor influences the direction and strength of a recommendation
Problem	The problem is determined by the importance and frequency of the health care issue that is addressed (burden of disease, prevalence or baseline risk). If the problem is of great importance a strong recommendation is more likely.
Values and preferences	Values and preferences or the importance of outcomes. This describes how important health outcomes are to those affected, how variable the importance is and if there is uncertainty about this.
Certainty in the evidence	The higher the certainty in the evidence the more likely is a strong recommendation.
Health benefits and harms and burden and their balance	This requires an evaluation of the absolute effects of both the benefits and harms and their importance. The greater the net benefit or net harm the more likely is a strong recommendation for or against the option.
Resource implications	This describes how resource intense an option is, if it is cost- effective and if there is incremental benefit. The more advantageous or clearly disadvantageous these resource implications are the more likely is a strong recommendation.
Equity	The greater the likelihood to reduce inequities or increase equity and the more accessible an option is, the more likely is a strong recommendation.
Acceptability	The greater the acceptability of an option to all or most stakeholders, the more likely is a strong recommendation.
Feasibility	The greater the feasibility of an option to all or most stakeholders, the more likely is a strong recommendation.

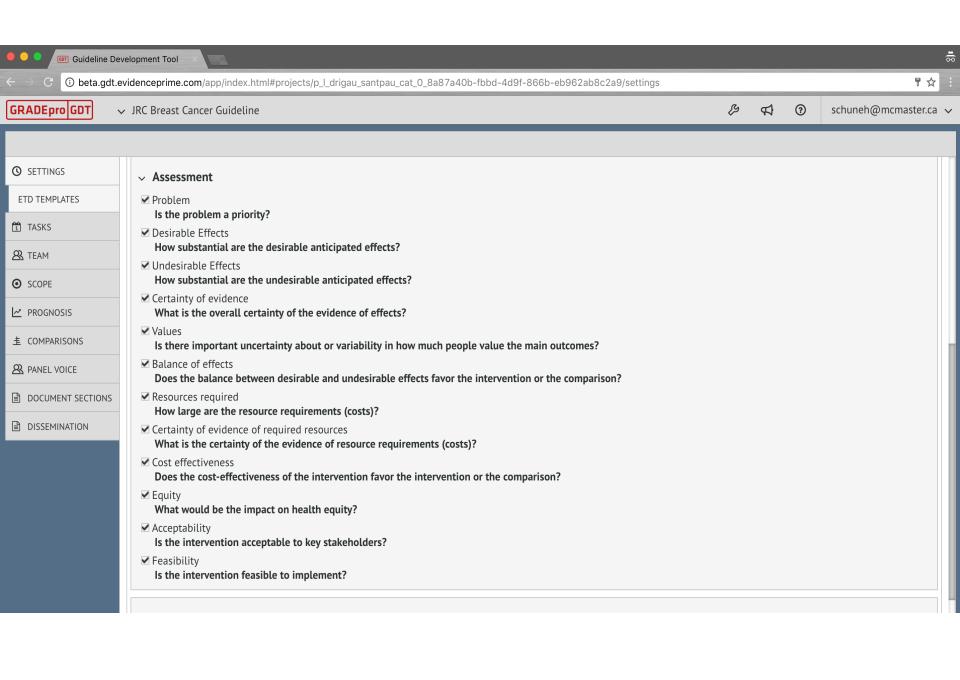
Criteria	How the factor influences the direction and strength of a recommendation
Problem	The problem is determined by the importance and frequency of the health care issue that is addressed (burden of disease, prevalence or baseline risk). If the problem is of great importance a strong recommendation is more likely.
Values and preferences	Values and preferences or the importance of outcomes. This describes how important health outcomes are to those affected, how variable the importance is and if there is uncertainty about this.
Certainty in the evidence	The higher the certainty in the evidence the more likely is a strong recommendation.
Health benefits and harms and burden and their balance	This requires an evaluation of the absolute effects of both the benefits and harms and their importance. The greater the net benefit or net harm the more likely is a strong recommendation for or against the option.
Resource implications	This describes how resource intense an option is, if it is costeffective and if there is incremental benefit. The more advantageous or clearly disadvantageous these resource implications are the more likely is a strong recommendation.
Equity	The greater the likelihood to reduce inequities or increase equity and the more accessible an option is, the more likely is a strong recommendation.
Acceptability	The greater the acceptability of an option to all or most stakeholders, the more likely is a strong recommendation.
Feasibility	The greater the feasibility of an option to all or most stakeholders, the more likely is a strong recommendation.

Criteria	How the factor influences the direction and strength of a recommendation		
Problem	The problem is determined by the importance and frequency of the health care issue that is addressed (burden of disease, prevalence or baseline risk). If the problem is of great importance a strong recommendation is more likely.		
Values and	Values and preferences or the importance of outcomes. This		
preferences	describes how important health outcomes are to those affected, how variable the importance is and if there is uncertainty about this.		
Certainty in the	The higher the certainty in the evidence the more likely is a strong		
evidence	recommendation.		
Health benefits	This requires an evaluation of the absolute effects of both the		
and harms and	benefits and harms and their importance. The greater the net		
burden and their	benefit or net harm the more likely is a strong recommendation		
balance	for or against the option.		
Resource	This describes how resource intense an option is, if it is cost-		
implications	effective and if there is incremental benefit. The more		
	advantageous or clearly disadvantageous these resource		
	implications are the more likely is a strong recommendation.		
Equity	The greater the likelihood to reduce inequities or increase equity		
	and the more accessible an option is, the more likely is a strong recommendation.		
Acceptability	The greater the acceptability of an option to all or most		
	stakeholders, the more likely is a strong recommendation.		
Feasibility	The greater the feasibility of an option to all or most stakeholders,		
	the more likely is a strong recommendation.		

Criteria	How the factor influences the direction and strength of a recommendation
Problem	The problem is determined by the importance and frequency of the health care issue that is addressed (burden of disease, prevalence or baseline risk). If the problem is of great importance a strong recommendation is more likely.
Values and	Values and preferences or the importance of outcomes. This
preferences	describes how important health outcomes are to those affected, how variable the importance is and if there is uncertainty about this.
Certainty in the evidence	The higher the certainty in the evidence the more likely is a strong recommendation.
Health benefits and harms and burden and their balance	This requires an evaluation of the absolute effects of both the benefits and harms and their importance. The greater the net benefit or net harm the more likely is a strong recommendation for or against the option.
Resource implications	This describes how resource intense an option is, if it is costeffective and if there is incremental benefit. The more advantageous or clearly disadvantageous these resource implications are the more likely is a strong recommendation.
Equity	The greater the likelihood to reduce inequities or increase equity and the more accessible an option is, the more likely is a strong recommendation.
Acceptability	The greater the acceptability of an option to all or most stakeholders, the more likely is a strong recommendation.
Feasibility	The greater the feasibility of an option to all or most stakeholders, the more likely is a strong recommendation.

Criteria	How the factor influences the direction and strength of a recommendation		
Problem	The problem is determined by the importance and frequency of the health care issue that is addressed (burden of disease, prevalence or baseline risk). If the problem is of great importance a strong recommendation is more likely.		
Values and	Values and preferences or the importance of outcomes. This		
preferences	describes how important health outcomes are to those affected, how variable the importance is and if there is uncertainty about this.		
Certainty in the	The higher the certainty in the evidence the more likely is a strong		
evidence	recommendation.		
Health benefits	This requires an evaluation of the absolute effects of both the		
and harms and benefits and harms and their importance. The greater to			
burden and their benefit or net harm the more likely is a strong recommendation.			
balance	for or against the option.		
Resource	This describes how resource intense an option is, if it is cost-		
implications	effective and if there is incremental benefit. The more		
	advantageous or clearly disadvantageous these resource		
Equity.	implications are the more likely is a strong recommendation.		
Equity	The greater the likelihood to reduce inequities or increase equity and the more accessible an option is, the more likely is a strong recommendation.		
Acceptability	The greater the acceptability of an option to all or most		
	stakeholders, the more likely is a strong recommendation.		
Feasibility	The greater the feasibility of an option to all or most stakeholders,		
	the more likely is a strong recommendation.		

Criteria	How the factor influences the direction and strength of a recommendation
Problem	The problem is determined by the importance and frequency of the health care issue that is addressed (burden of disease, prevalence or baseline risk). If the problem is of great importance a strong recommendation is more likely.
Values and	Values and preferences or the importance of outcomes. This
preferences	describes how important health outcomes are to those affected, how variable the importance is and if there is uncertainty about this.
Certainty in the evidence	The higher the certainty in the evidence the more likely is a strong recommendation.
Health benefits and harms and burden and their balance	This requires an evaluation of the absolute effects of both the benefits and harms and their importance. The greater the net benefit or net harm the more likely is a strong recommendation for or against the option.
Resource implications	This describes how resource intense an option is, if it is cost- effective and if there is incremental benefit. The more advantageous or clearly disadvantageous these resource implications are the more likely is a strong recommendation.
Equity	The greater the likelihood to reduce inequities or increase equity and the more accessible an option is, the more likely is a strong recommendation.
Acceptability	The greater the acceptability of an option to all or most stakeholders, the more likely is a strong recommendation.
Feasibility	The greater the feasibility of an option to all or most stakeholders, the more likely is a strong recommendation.



WHO recommendation on group antenatal care

Antenatal care (ANC)
 conventionally involves one on-one consultations. Group
 ANC integrates the usual
 health assessment with
 facilitated educational
 activities and peer support



Question: Should group antenatal care be recommended as an alternative to standard antenatal care?

- Perspective: Health systems perspective
- Population: All pregnant women
- Aim: To improve quality of antenatal care and the pregnancy experience
- Option: Group antenatal care
- Comparison: Standard (one-to-one) antenatal care
- Main outcomes: Positive pregnancy experience, maternal health outcomes, perinatal health outcomes

What matters to women receiving antenatal care?

Qualitative evidence synthesis (Downe et al 2015)

 Shows that women across all cultural and sociodemographic contexts want a positive pregnancy experience

«Positive pregnancy experience»

Maintaining a healthy pregnancy (including preventing or treating risks, illness or death)



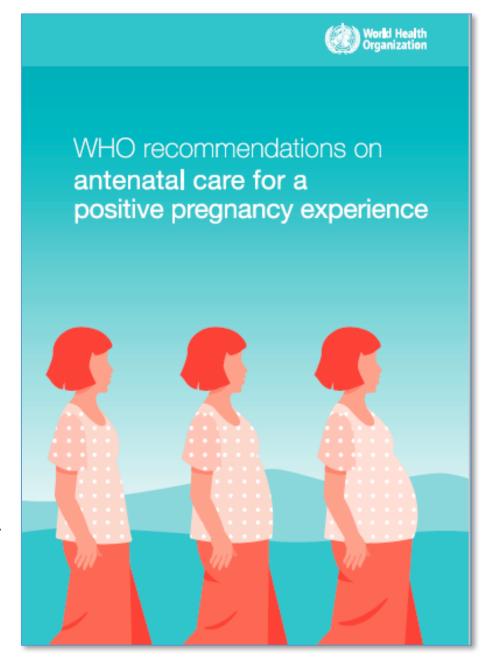
Having an effective transition to positive labour and birth

Achieving positive motherhood

Maintaining physical and sociocultural normality

Impact on guideline process

- Antenatal care not only viewed as a clinical process
- Acknowledgement of pregnancy as an important social phenomenon
- (However, design of trials and reviews rarely reflect this perspective)



What are the benefits and harms of the intervention?

Outcomes	Individual ANC	Group ANC	Certainty of the evidence (GRADE)	Comments
Preterm birth	105 per 1000	79 per 1000 (60 to 105)	Moderate	Group ANC may reduce preterm birth. However, the CI includes no difference
Low birthweight	89 per 1000	82 per 1000 (60 to 109)	Moderate	Group ANC probably has little or no effect on birth weight
Perinatal mortality	21 per 1000	14 per 1000 (7 to 27)	Low	Group ANC may have little or no effect on perinatal mortality
Women's satisfaction			Moderate	Group ANC probably leads to higher satisfaction
Spontaneous vaginal birth	606 per 1000	582 per 1000 (485 to 697)	High	Group ANC does not have an important effect on spontaneous vaginal birth

Catling et al, 2015

What resources does the intervention require?

Group ANC						
Resource item	Description					
Staff	At least two health care providers per group. Providers should speak the local					
	language					
Training	Staff to be trained in communication, facilitation and behaviour-change skills					
Physical resources	Training costs, including provision of training manuals (translated if necessary), and transport and subsistence of staff during training					
	 A large, well-ventilated group space with movable chairs that can be arranged in a circle, and including an area that can be screened off for examinations Automatic blood pressure monitors and scales for self-assessment Session materials such as videos, picture cards, dolls, and educationally and culturally appropriate information booklets for women to take home Music and refreshments (optional) Other equipment as per usual ANC 					
Time to deliver the	Sessions last 90-120 minutes					
task						
Supervision and monitoring	For a finite period after implementation, then as for usual ANC					
Referral	As for usual ANC					

Judgement: Neither favours this option or other options

Is the intervention acceptable?

Evidence from high-income settings:

- Most women enjoy the group format use it to build socially supportive relationships (high confidence)
- Most women appreciate the additional time (high confidence), but some women don't attend because of it (moderate confidence)



Downe et al, 2015

- Some women have reservations about the lack of privacy during the group sessions, particularly during physical examinations (low confidence)
- Providers find group sessions to be enjoyable and a more efficient use of their time (moderate confidence)
- No evidence from low or middle-income settings. Indirect evidence suggests that in rural areas of some LMICs where traditional beliefs restrict pregnancy exposure, the group approach may be inappropriate (moderate confidence)

Judgement: Probably favours group antenatal care

Is the intervention feasible to implement?

- Providers view the facilitative component of group antenatal care as a skill that requires additional training and provider commitment (moderate confidence in the evidence)
- Some providers also feel that clinics need to be better equipped to deliver group sessions, i.e. clinics need to have large enough rooms with adequate seating (moderate confidence in the evidence)



Downe et al, 2015

Judgement: Neither favours this option or other options

What did the WHO recommend?

We suggest considering the option only in specific circumstances

Group antenatal care should be offered as an alternative to standard (individual) antenatal care for pregnant women depending on a woman's preferences and provided that the infrastructure and resources for delivery of group care are available

Implementation considerations

(Based on the qualitative evidence syntheses)

The following should be considered when implementing group antenatal care:

- Group antenatal care may take longer than individual antenatal care, and this may pose practical problems for some women in terms of work and childcare. Healthcare providers should be able to offer a variety of time slots for group sessions (morning, afternoon, evening) and should consider making individual care available as well (especially for women with complications in pregnancy)
- Healthcare providers and their supervisors need to receive appropriate initial and refresher/booster training in group facilitation and communication
- Pre-service training institutions and professional bodies should also be informed and involved so that training curricula and supervision guidelines are updated
- Healthcare providers need to be have appropriate facilities to deal with group sessions, including access to large, well-ventilated rooms, or sheltered spaces and adequate seating
- Women's need for privacy should be considered. A private space should be made available for physical examinations, and opportunities should be given for private conversations
- Etc.

Research priorities

(Topics with lack of evidence or low / very low GRADE and GRADE-CERQual assessments)

More research is needed:

- To determine the optimal, most acceptable, and feasible group size and frequency of group ANC visits in a variety of settings
- To assess the effect of group ANC and FANC on maternal and perinatal outcomes, including pre-eclampsia, anaemia, excessive gestational weight gain, gestational diabetes mellitus, infections, caesarean section, preterm birth, low birth weight, maternal and perinatal mortality, and coverage outcomes (ANC visits and facility delivery)
- To assess the acceptability and feasibility of group FANC in various settings
- To assess whether group FANC should also include high-risk women, in addition to such women receiving specialist care, so that high-risk women don't miss out on the communication and social support aspects of ANC
- To assess the cost-effectiveness of group FANC in low- and middle-income settings
- To assess the effects of group FANC on health literacy and other equityrelated outcomes
- To assess effects of group ANC on other healthy behaviours, such as breastfeeding initiation and postnatal contraception

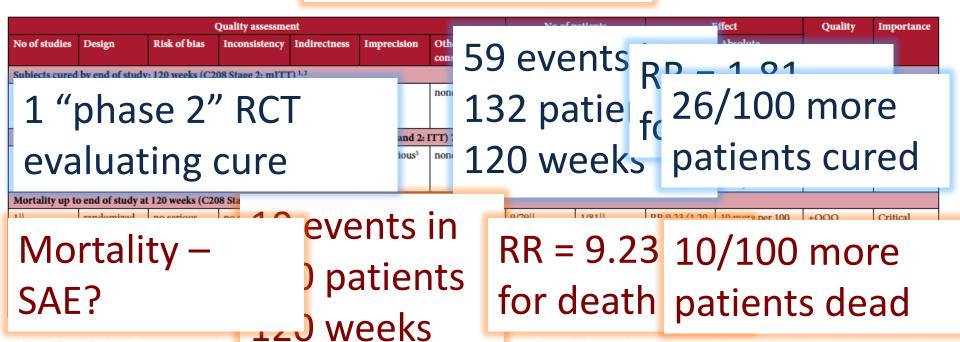
ASH Heparin in Cancer

The use of bedaquiline in the treatment of multidrug-resistant tuberculosis

Interim policy guidance



Overall low to very low certainty in the evidence



1 The mITT modified intention to treat population i placebo who did not have MDR or pre-XDR-TB at proup after excluding 13 subjects (16.5%) treated with bedaquiline and 15 subjects (18.5%) with uable.

² Cure defined as 5 consecutive negative cultures from samples collected at least 30 days apart in the final 12 months of treatment, OR if only 1 culture is reported positive during that period, then a further 3 consecutive negative cultures from samples taken at least 30 days apart.

³ End of study data slide supplied by Janssen subsequent to US-FDA meeting. In this slide, mention is made of 'treatment success', but the company further clarified that the strict WHO definition of 'cure' was being used.

⁴ Representativeness of the mITT population (assumptions made for ITT population).

⁵ Small sample size and resulting large confidence interval limits precision: few (= serious) or very few (= very serious) observations.

⁶ This difference is statistically significant (Fisher p=0.005; Pearson p=0.003).

Participants: MDR TB patients

Intervention: bedaquiline + background MDR TB treatment

Comparison: background MDR TB treatment alone

▶ About this summary

