

A red rectangular stamp with the word "GRADE" in bold, uppercase letters.

How can a STRONG
recommendation be based on
VERY LOW quality evidence?

Background

- **G**radings of **R**ecommendations, **A**ssessment, **D**evelopment and **E**valuation (GRADE) is a widely used rating system
- Several COG-endorsed supportive care guidelines have used the GRADE approach

GRADE *classifies*

Recommendations as **STRONG** or **WEAK**

and

Quality of the Evidence* as **VERY LOW, LOW, MODERATE** or **HIGH**

*Reflects the level of confidence that the estimate of an intervention's effect is correct

GRADE**Quality of the body of evidence**

High ⊕⊕⊕⊕

We are very confident that the true effect lies close to that of the estimate of the effect

Moderate ⊕⊕⊕○

We are moderately confident in the effect estimate: The true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different

Low ⊕⊕○○

Our confidence in the effect estimate is limited: The true effect may be substantially different from the estimate of the effect

Very Low ⊕○○○

We have very little confidence in the effect estimate: The true effect is likely to be substantially different from the estimate of effect

GRADE**Strength of Recommendation**

Strong

Most people would want and should receive the recommended course of action. The recommendation can be adapted as a policy in most situations.

Weak

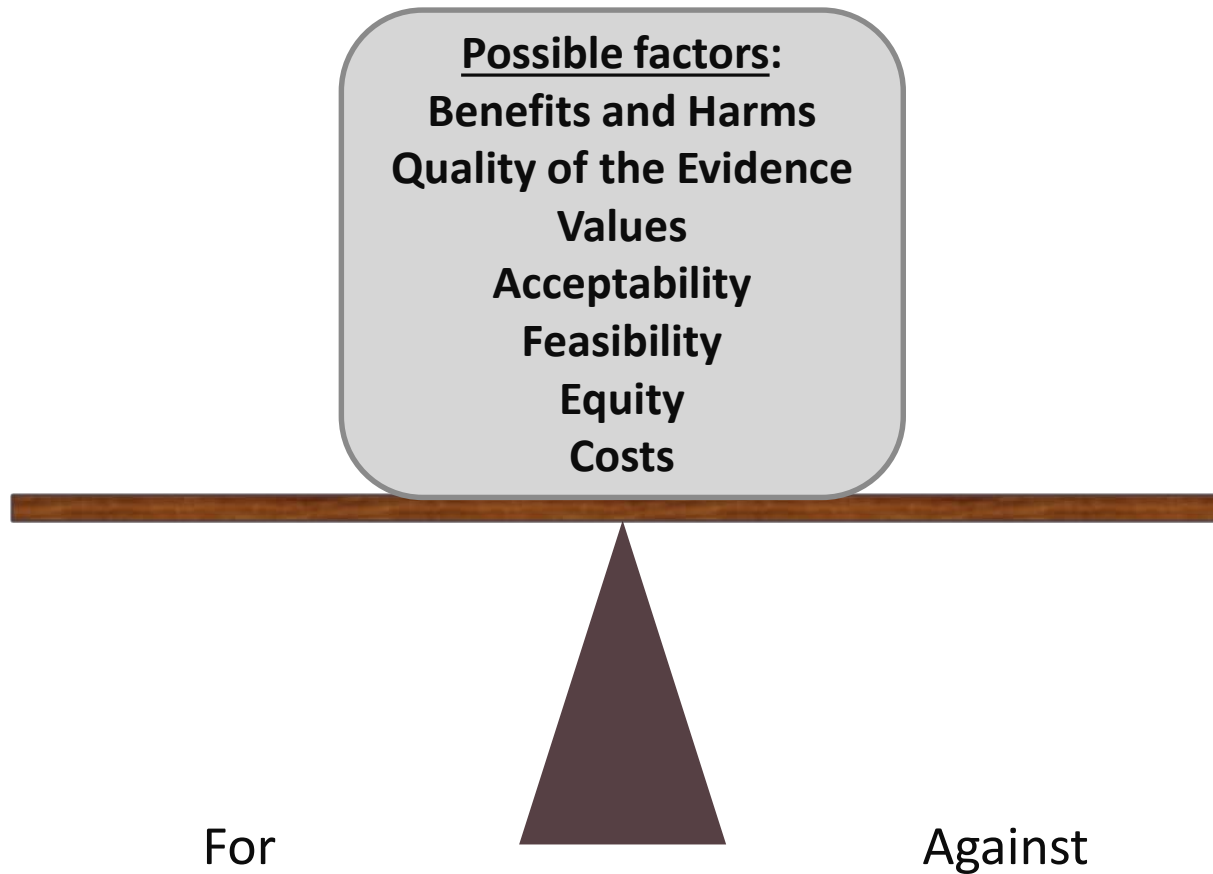
There is a need for substantial debate and involvement of stakeholders in policy making. The majority of people would want the recommended course of action, but many would not. Clinicians should be more prepared to help patients to make a decision that is consistent with their own values.

GRADEwebsite: <http://www.gradeworkinggroup.org/>

In this module we explain how a **STRONG GRADE GUIDELINE RECOMMENDATION** can be based on **very low / low quality evidence** and how to integrate such recommendations into your practice



GRADE recommendations: **A balance of factors**



Because GRADE incorporates separate judgments of evidence quality and strength of recommendation...

High quality evidence does not necessarily lead to a strong recommendation

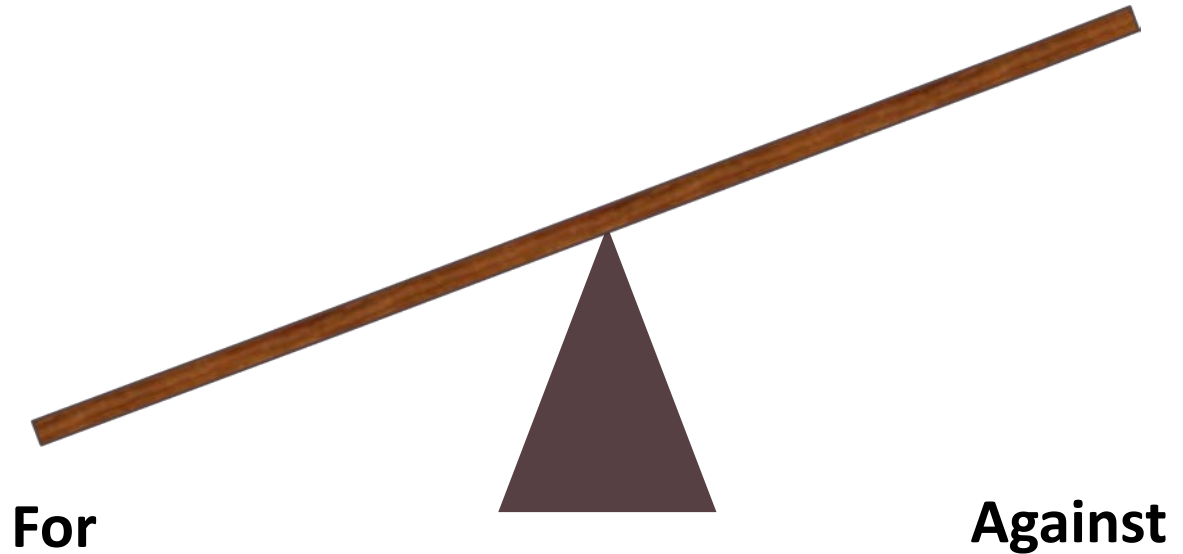
and

Low quality evidence does not always lead to a weak recommendation

GRADE

Strong recommendation

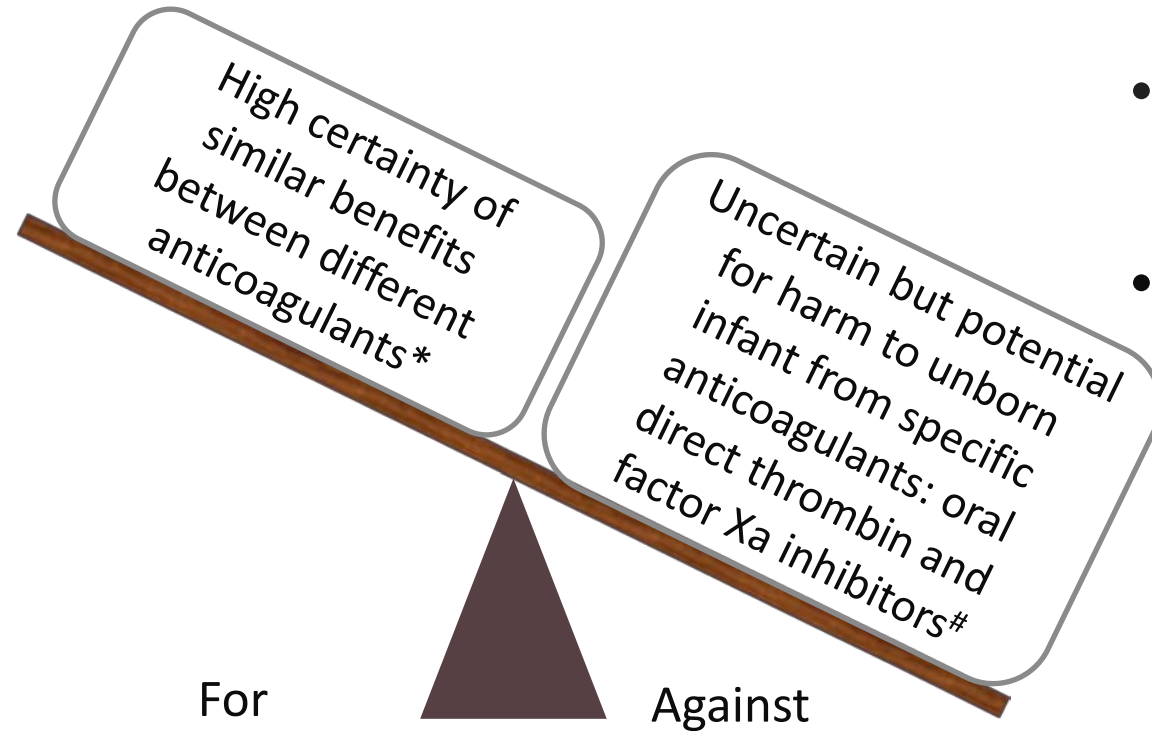
Possible factors:
Benefits and Harms
Quality of the Evidence
Values
Acceptability
Feasibility
Equity
Costs



If after weighing all factors, the guideline panel is **very certain** that desirable effects outweigh undesirable effects, they will make a strong recommendation



GRADE example: Should oral direct thrombin and factor Xa inhibitors be used in pregnancy for women requiring anticoagulation?



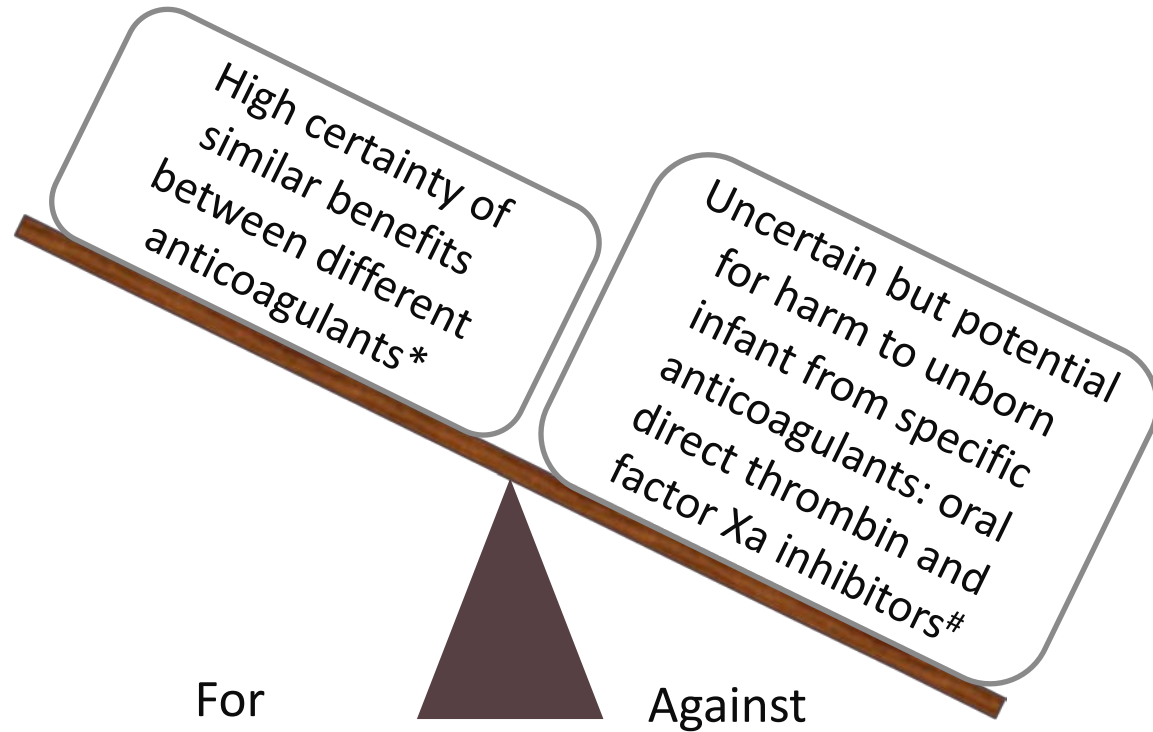
Weighing the factors:

- *High certainty (i.e. high quality evidence) of similar effects of different anticoagulants
- # However, there is low quality evidence (i.e. low certainty of the effect) suggesting potential harm to the unborn infant with oral direct thrombin and factor Xa inhibitors


The guideline panel therefore made a **STRONG recommendation against** the use of oral direct thrombin and factor Xa inhibitors in pregnancy

This means:

Almost all women would not want to use oral direct thrombin and factor Xa inhibitors supplements in pregnancy and clinicians should not prescribe it in this setting



Implications for practice

Implications	 Strong recommendation
For patients	<p>Most individuals in this situation would want the recommended course of action, and only a small proportion would not.</p> <p>Formal decision aids are not likely to be needed to help individuals make decisions consistent with their values and preferences.</p>
For clinicians	<p>Most individuals should receive the intervention. Adherence to this recommendation according to the guideline could be used as a quality criterion or performance indicator.</p>
For policy makers	<p>The recommendation can be adopted as policy in most situations.</p>

Source: <http://www.gradeworkinggroup.org/>



Want to learn more about GRADE?

Visit: <https://cebgrade.mcmaster.ca/training/>

Acknowledgement:

Example courtesy of Dr. Nancy Santesso, GRADE group

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