

Going from evidence to coverage decision

Objective: Development of tools and strategies targeted to WP2's audience: policy makers, managers and their support staff with responsibility for making coverage decisions. These coverage decisions are defined as decisions by third party payers (public or private health insurers) about whether and how much to pay for drugs, tests, devices or services and under what conditions and can take place at national and/or regional level depending on the type of interventions.

Methods: The initial development of an optimal presentation format was based on the work of the GRADE working group. The development process includes different

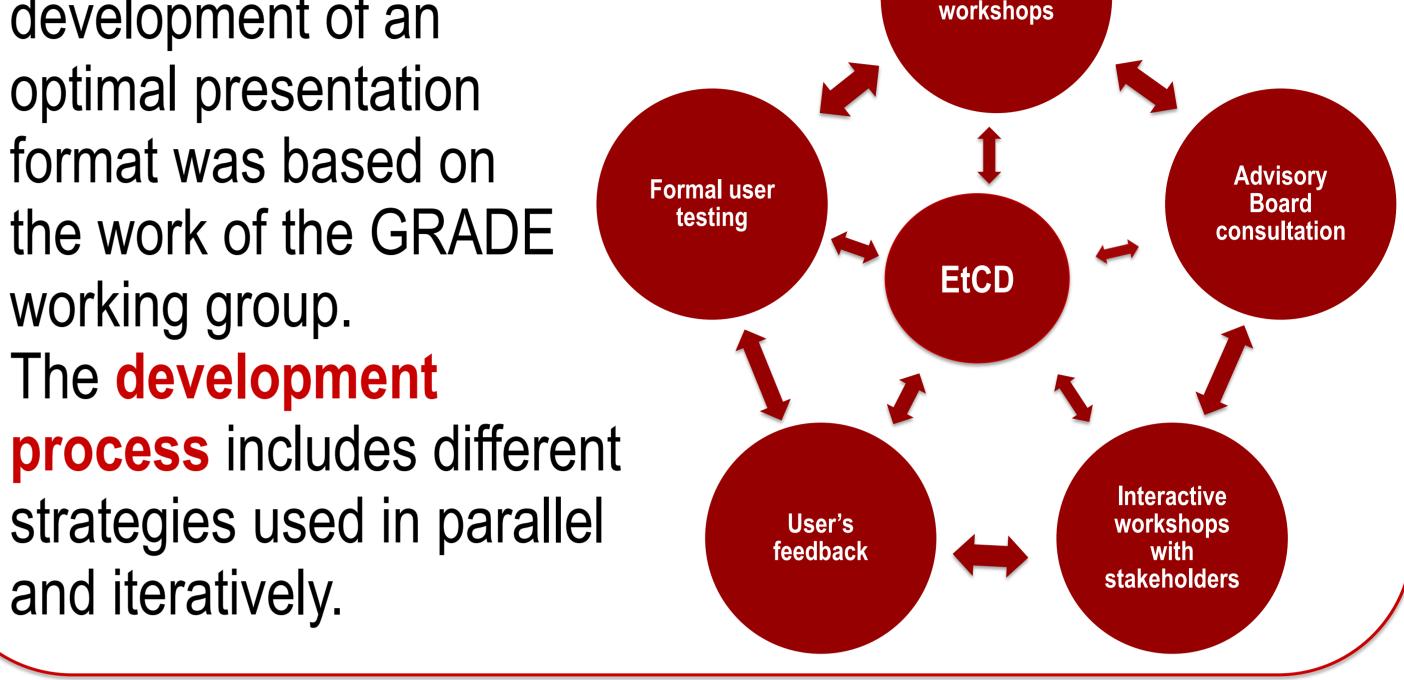
Relevance

89%

Applicability

62%

and iteratively.



Users' feedbacks:

Utility

69%

Clarity

67%

Logic

81%

Simplicity

80%

Suitability

Usability

44%

Overall

83%

Compre-

hensiveness

54%

Assessment

Brainstorming

Results

Developing and Evaluating

based on Evidence

Communication strategies to support

Informed Decisions and practice

- 7 Frameworks developed:
 - 3 on drugs (bevacizumab+Paclitaxel, Palivizumab, NOACs)
 - 3 on high cost technologies (MRI, DUS, Da Vinci Robot)
 - 1 on device (Inferior vena cava filter)
- 6 National and International workshops organised

Evidence to Coverage Decision Framework (EtCD)

The EtCD is structured in 3 sections:

Section 1: clinical question, PICO, background information.

Section 2: domains, criteria, judgement, research evidence, additional information.

Section 3: balance between desirable and undesirable consequences, decision, restrictions, justification and implementation considerations.

GRADE Should New Oral Anticoagulants (NOACs) be covered for patients with atrial fibrillation?

Domain	Criteria						
Problem	Is the problem a priority?						
Value	Is there important uncertainty about how much people value the main outcomes?						
Certainty of the evidence	What is the overall certainty of the evidence of effects?						
Benefits & Harms	How substantial are the desirable anticipated effects? How substantial are the undesirable anticipated effects? Do the desirable effects outweigh the undesirable effects?						
Resource use	How large are the resource requirements? How large is the incremental cost relative to the net benefit?						
Equity	What would be the impact on health inequities?						
Acceptability	Is the option acceptable to key stakeholders?						
Feasibility	Is the option feasible to implement?						

ter	nts: Patients wit vention: NOACs parison: Warfari		proportion of patien with age, reaching	its is associat around 8% ir about 77 yea	ted with rheumatic von subjects over 80 years. Approximately 7	alve dis ears), a '0 % of	ease (p and an ii patients	redomin ncidence with A	nantly mit e of appro F have a	ral stenos oximately (n age betv	is). In Italy, the 3 cases per 100 veen 65 and 85	occur as non-valvular AF, whereas only a sma AF has a prevalence of 1 to 2 % (which increase 00 person years / person, while the average age of 5 years. AF increases the risk of ischemic stroke b different etiology.	
	CRITERIA	JUDGEMENTS	RESEARCHEV	IDENCE	ADDITIONAL INFORMATION								
	How substantial are the desirable anticipated effects?	Favour to Uncertain Favour to Warfarin NOACs	Critical Outcomes	Effe Relative Risks	ect Estimate Absolute Risks	Large or Modest benefit	Ei Small benefit	fect Judg No effect	small harm/ burden	Modest or Large harm/ burden	Quality of Evidence	The study included 3 randomized, controlled trial (RCTs) comparing NOACs with warfarin for management of AF and observational studies and reports on adverse effects.	
	How substantial are the undesirable anticipated effects? Do the desirable effects outweigh the undesirable	Favour to Uncertain Favour to NOACs NOACS No Uncertain Yes D	1. All-cause mortality	RR 0.88 (0.82-0.96)	8 fewer death/1,000 patients (3 to 11 fewer)						HIGH ⊕⊕⊕⊕	RCT patients characteristics 50,578 patients; mean age >70ys; 63% men; CHADs index average 2,1 in the studies evaluating dabigatral and apixaban and 3,5 in the rivaroxaban studies.	
			VTE related mortality	RR 0.77 (0.57-1.02)	NS						MODERATE ⊕⊕⊕⊖	In the warfarin group the percentage of time in the target range was 55% to 66%. Subgroup analysis reported in 1 study no differer effects on stroke prevention (interaction effects) for individuals with a history of core	
			3. Ischemic stroke	RR 0.89 (0.78-1.02)	NS						MODERATE ⊕⊕⊕⊖		
& HARMS			Hemorrhagic stroke	RR 0.48 (0,36-0.62)	4 fewer hemmorrhagic stroke/ 1,000 pts (2 to 5 fewer)			пппі	MODERATE ⊕⊕⊕⊖	individuals with a history of cerebrovascular accide impaired renal function, or older age. However, the analyses suggest that, compared with warfarin, dabigatran may increase some bleeding complicati in patients older than 75 years and in those receiving			
	effects?		ADVERSE EFFECT									warfarin who have good control. The effects of impa renal function were mixed, showing no interaction ef in one analysis and a differential risk for gastrointesti	
BENEFITS			1.Fatal bleeding	RR 0.60 (0.46-0.77)	1 fewer death/1,000 patients					_	MODERATE ⊕⊕⊕⊖	bleeding with rivaroxaban in another.	
			Major bleeding	RR 0.80 (0.63-1.01)	NS						LOW ⊕⊕⊖⊖	In 2011, the FDA issued a notice that it was evaluating reports of serious bleeding with dabigatran.	
			3.Gastrointesinal bleeding	RR 1.30 (0.97-1.73)	NS						LOW ⊕⊕⊖⊖	For myocardial infarction in a subgroup analysis, risk was increased with dabigatran (RR, 1.35 [CI, 0.45])	
			Myocardial infarction	RR 0.95 (0.81-1.11)	NS						LOW ⊕⊕⊖⊖	to 1.85]) compared with FXa inhibitors (RR, 0.84 [Cl, 0.70 to 1.01]) (P _ 0.010).	
			5.Discontinuation due to adverse effects	RR 1.23 (1.05-1.44)							LOW ⊕⊕⊖⊖	In subgroup analysis, rates of discontinuation were higher for dabigatran than for FXa inhibitors. Burden of treatment	
			6. Liver disfunction	RR 0.82 (0.56-1.18)	NS						LOW ⊕⊕⊖⊖	Warfarin: daily medication, lifestyle limitation, dieta restrictions,frequent blood testing and clinical visit NOACS: Apixaban: twice daily medication, Dabiga	
												twice daily medication, Rivaroxaban: daily medication	

References:

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- Parmelli E, Amato L, Saitto C, Davoli M; Gruppo di Lavoro "DECIDE Italia. DECIDE: developing and evaluating communication strategies to support informed decisions and practice based on evidence. Recenti Prog Med. 2013 Oct;104(10):522-31.

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