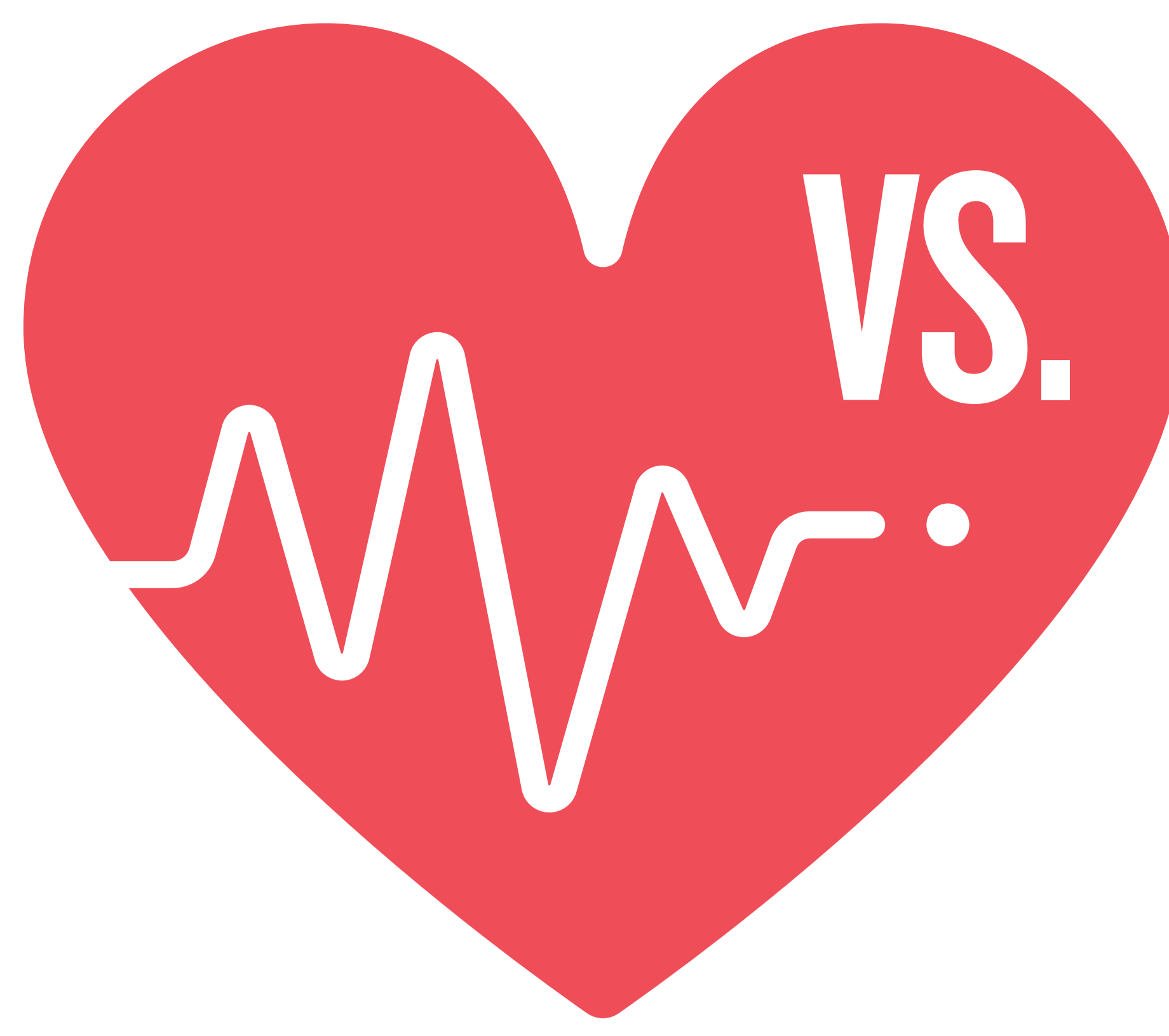


CHALLENGES IN SELECTING RATE



RHYTHM CONTROL IN ATRIAL FIBRILLATION

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BACKGROUND

- ESC Guidelines Update (2012) on Management of AF
 - Need to gain understanding on how guidelines are implemented in practice
- Canadian Needs Assessment in AF (2010-2011)
 - Used as model to be adapted to the European context / 2015

STUDY PURPOSE

Identify gaps and challenges faced by cardiologists, neurologists & GPs/FPs in 6 countries in the care of Atrial Fibrillation patients to inform evidence-based continuing education

SAMPLE (n=561)

PROFESSION	FR	GE	IT	PO	SP	UK	TOTAL
Cardiologists	45	55	62	44	45	43	294
Neurologists	22	22	21	21	24	21	131
GPs/FPs	23	21	22	25	23	22	136
Total	88	100	108	87	91	87	561

STUDY OVERVIEW



CASE #1

66 YEAR OLD MAN



Medical history:

- Hypertension, well-controlled
- Mitral regurgitation grade 2/4; tricuspid regurgitation grade 2/4
- No pulmonary hypertension. LVEF 57%

Current medication:

- Perindopril 4 mg/d
- Bisoprolol 5 mg/d

At consultation:

- First episode of AF since 15 hours

Symptoms:

- Palpitation. No HF symptoms/signs.
- HR:92/min.
- BP: 124/84 mmHg.
- Lab: Hb 13.6 g/dl; creatinine 1.35 mg/dl; CrCl (Cockcroft-Gault) 66 ml/min

Clinical decision-making: rhythm vs. rate control

- Majority of participants chose Rhythm Control
- Variation by country as to when and how to restore sinus rhythm

PROFESSION	FR	GE	IT	PO	SP	UK	TOTAL
Selected Rhythm Control	81	94	98	93	95	85	92
Neurologists	86	67	90	80	78	70	78
GPs/FPs	70	91	79	71	71	50	72
Selected to restore sinus rhythm within first 24hr	53*	75	93	97	90	79	83
Neurologists	56*	100	83	88	83	71	80
GPs/FPs	86	65	95	93	93	82	85
Selected trial of anti-arrhythmic drug, and then DC cardioversion	77	27*	74	79	70	62	64
Neurologists	83	71	78	94	72	57	77
GPs/FPs	86	40*	84	100	73	46*	71

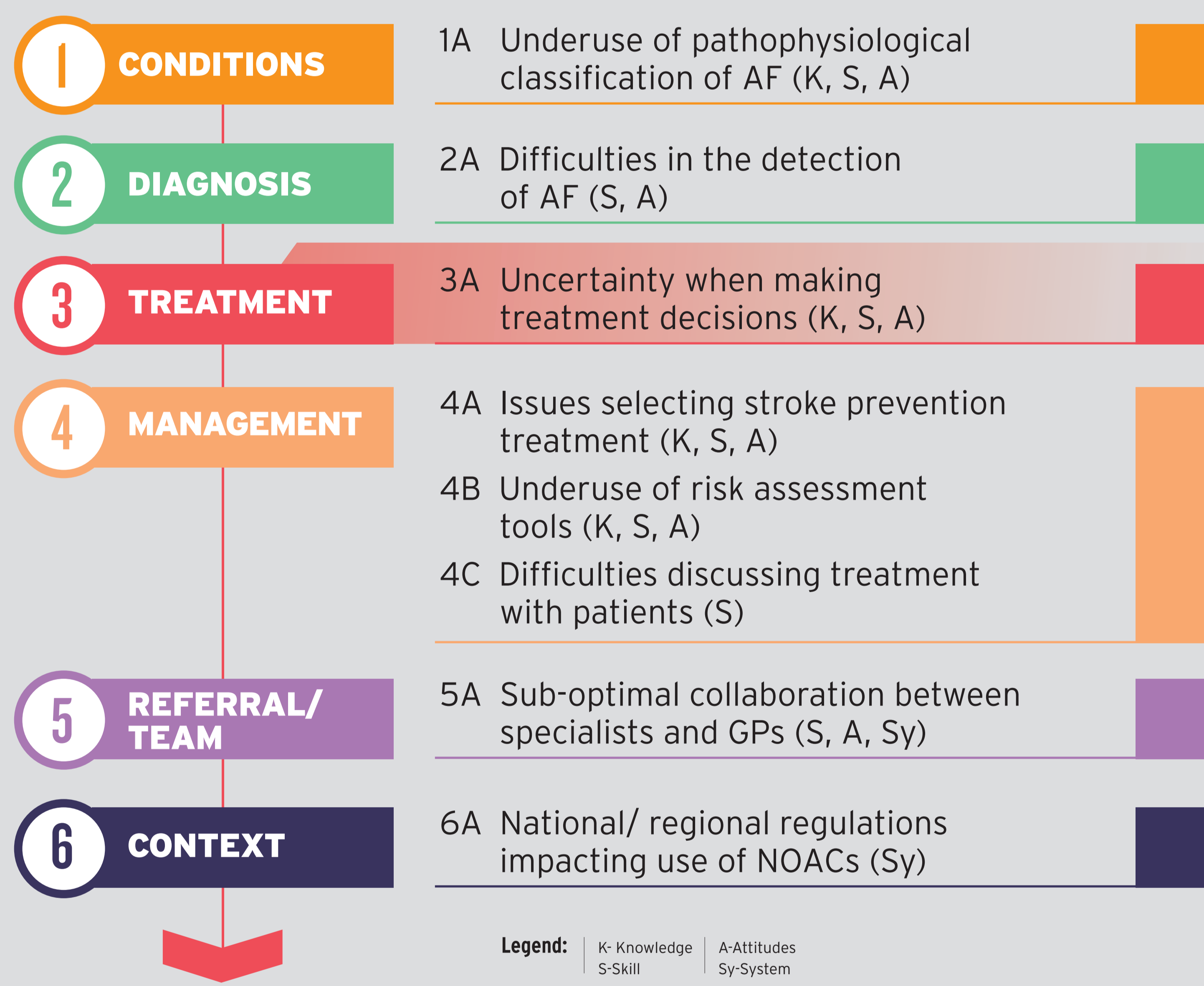
* statistically significant difference at the p<0.05 level

Selecting rhythm control strategy

"Sometimes picking the right anti-arrhythmic for patient can be a challenge because there are so many different factors that you have to put in, in terms of the impairment of the symptoms or the medical conditions, interaction."

- Cardiologist, UK

SUMMARY OF KEY FINDINGS



CASE #2

80 YEAR OLD WOMAN



Medical history

- Hypertension, dilated cardiomyopathy (ejection fraction 40% for years)
- Current medication
- Enalapril 10 mg/d
- Bisoprolol 2.5 mg/d

Reason for consultation

- Since 8 weeks: irregular HR is displayed when she measures her BP.
- No palpitations. Reduced exercise tolerance.
- 2d ago weakness of left arm & leg which resolved after 6 hours

Work up

- HR: 115/min, BP:135/88 mmHg, Weight: 100kg
- Moderate malleolar oedema, CVP elevated; no rales
- Echo: aortic stenosis 2/4 and normal LV-function
- Lab: Hb 14 g/dl; creatinine 1.3 mg/dl; CrCl (Cockcroft-Gault) 54 ml/min

Diagnosis

- Persistent AF and TIA

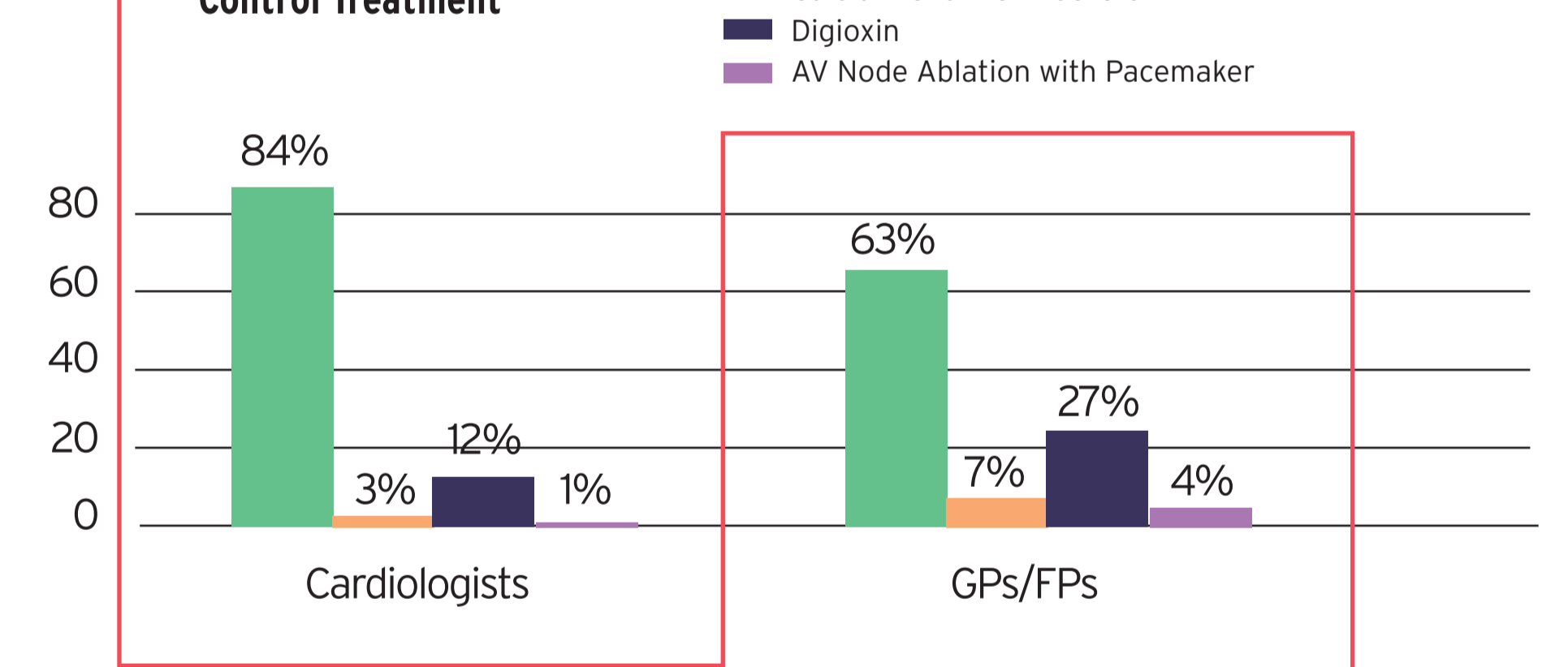
Clinical decision-making: rhythm vs. rate control

- Majority of participants selected Rate Control using Beta-Blockers
- GPs/FPs responses show greater variability in treatment selection

PROFESSION	FR	GE	IT	PO	SP	UK	TOTAL
Selected Rhythm Control	74	77	34*	76	93	82	70
Neurologists	62	57	63	55	70	95	67
GPs/FPs	65	73	54	24*	57	73	58

* statistically significant difference at the p<0.05 level

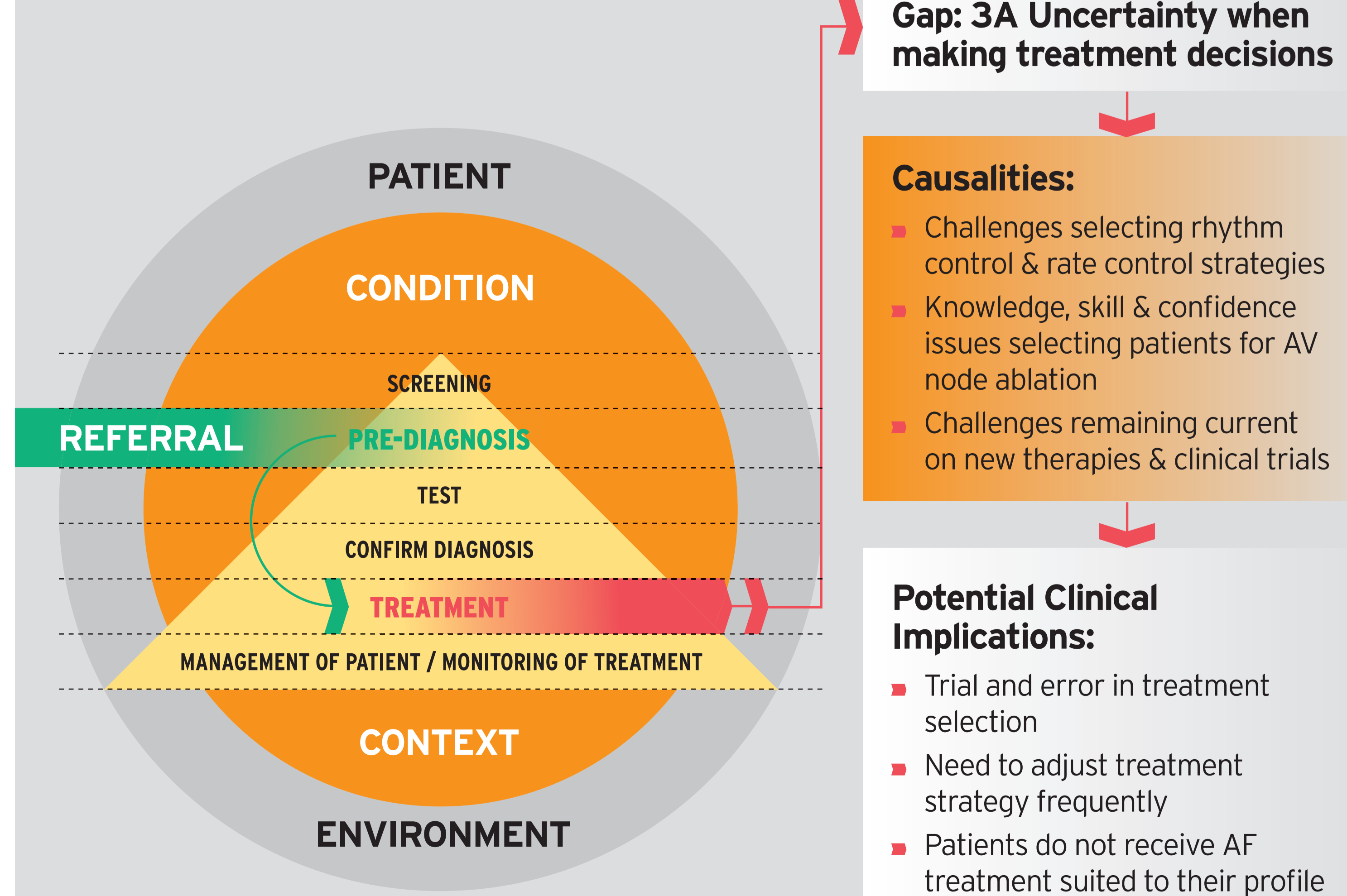
Selection of Rate Control Treatment



"The procedures are long and complex. They require the use of specific equipment (...), mapping systems, and trained professionals. The main challenge is treating these patients with the ablation, which is a long, complex and delicate procedure."

- Cardiologist, Italy

CHALLENGES IN THE CLINICAL DECISION-MAKING PROCESS



SELECTING PATIENTS FOR AV NODE ABLATION

All three groups reported skill issues. Neurologists and GPs/FPs also reported knowledge & confidence issues

- No statistically significant differences by country

ITEM	PROFESSION	FR	GE	IT	PO	SP	UK	TOTAL
Selecting patients who would benefit from AV node ablation	Cardiologists	K 27	37	39	46	14	33	33
	S 50	59	72	67	62	55	61	61
	C 32	42	57	58	40	48	47	47
Neurologists	K 84	85	74	87	78	75	80	80
	S 100	100	89	100	100	100	98	98
	C 100	100	88	73	94	86	92	92
GPs/FPs	K 78	59	57	60	83	58	65	65
	S 100	90	88	81	85	81	87	87
	C 88	80	92	84	90	81	86	86

K- Knowledge (Not acceptable, could be improved, not acceptable)
S- Skill (Needs significant improvement, Needs minor improvement, Optimal)
C- Confidence (1-Low to 5-Optimal)

CONCLUSION

- Findings corroborate those of the Canadian study
- Variability in the skills and treatment decision preferences of physicians
- Differences between countries may indicate variation in implementation of guidelines and/or in access to treatment options
- Findings call for targeted, locally adapted, specialty-specific, educational interventions to improve and standardise care provided to AF patients