Heart valve disease scope stakeholder subgroup discussions Wednesday 23 January 2019 Group 2				
Scope details	Questions for discussion	Stakeholder responses		
 3.1 Population: 3.1.1 Groups that will be covered: Adults (18 and over) with suspected heart valve disease. Adults (18 and over) with diagnosed heart valve disease (aortic, mitral, and tricuspid). 	 Is the population appropriate? Are there any specific subgroups that have not been mentioned? Are there any specific equality issues that need to be addressed that have not already been listed? Are there any groups that the guideline should not cover? 	The group agreed that the second bullet point should be amended to 'people with bicuspid aortic valve disease' for clarity.		
Specific consideration will be given to:				
 pregnant women and women considering pregnancy people with congenital valve abnormalities in need of multidisciplinary team involvement of adult congenital heart disease specialists elderly adults and adults with 				

	stenosis		
•	Interventions		
	 Approach (conventional surgery 		
	versus transcatheter)		
	 Repair or replacement 		
	 Type of prosthesis 		
	 Interventions for prosthetic valve 		
	complications		
•	Anticoagulation and antiplatelet		
	therapy after intervention		
•	Frequency of monitoring and type of		
	test before and after intervention		
•	Information and support		
3.3.2	Key clinical issues that will not be covered:	Are the excluded areas appropriate?	The group noted that there should be a decision on whether management of infective endocarditis is included or excluded.
			They thought either approach would be appropriate but it
• Dia	gnosis and management of pulmonary		should be clear in the document which approach is taken.
val	ve disease.		The group agreed that rheumatic fever should be amended to
• Pro	phylaxis for the prevention of infective		rheumatic valve disease.
enc	locarditis.		
• Pro	phylaxis for the prevention of		

rheumatic fever.		
• Management of acute heart failure.		
Anticoagulation for atrial fibrillation.		
3.4 Economic aspects We will take economic aspects into account when making recommendations. We will develop an economic plan that states for each review question (or key area in the scope) whether economic considerations are relevant, and if so whether this is an area that should be prioritised for economic modelling and analysis. We will review the economic evidence and carry out economic analyses, using an NHS and personal social services (PSS) perspective, as appropriate.	Which practices will have the biggest cost implications for the NHS? Are there any new practices that might save the NHS money compared to existing practice? Which areas of the scope have the most variation in practice?	Stakeholders suggested that the different types of surgery, particularly regarding their use in different risk groups of patients, surgical visualisation, the durability of different types of valve, and risks such as stroke and vascular complications, may be an area for economic work. They felt that follow-up after valve implantation is an area where there is large variation in practice.
3.5 Key issues and questions	Are these the correct questions?	Assessment and diagnosis
 Assessment and diagnosis 1.1 In people with suspected heart valve disease what are the indications for referral for echocardiography testing? 1.2 In people who have had 		The group suggested adding a question before 1.1 about what are the symptoms for which heart valve disease should be considered/what clinical features suggest heart valve disease. The group felt that there is a gap to be addressed between a person presenting in primary care and the clinician suspecting heart valve disease, and awareness needs to be raised among primary care practitioners about the symptoms of heart valve disease (for example, exertional breathlessness).

echocardiography testing, what are the	1.4 – Suggested removing this question as stress testing will be
indications for referral to a specialist?	covered by stress echocardiography.
1.3 In people with suspected heart	1.5 - Suggested rewording asymptomatic to 'uncertain
valve disease, what symptoms and	symptoms'.
signs indicate that direct referral to a	1.6 - Add cardiac CT as per previous suggestion for clinical
specialist is required?	areas.
1.4 In people with asymptomatic heart	1.8 - Remove this question as per previous suggestion for
valve disease what is the predictive	clinical areas.
accuracy of stress testing for risk	Medical management
stratification?	Suggested removing the word 'severe' from 2.1, and
1.5 In people with asymptomatic heart	combining 2.1 with 2.2. Stakeholders felt that this will be a
valve disease what is the role of stress	useful question area. There is variation in practice and some practitioners are giving ACE inhibitors for moderate heart
echocardiography?	valve disease, for example.
1.6 What is the role of cardiac magnetic	Indications for and timing of interventions
resonance for assessing valve disease?	
1.7 What is the diagnostic accuracy of	3.2 - Add CMR.
BNP for heart valve disease?	Interventions for valve repair or replacement
1.8 What is the diagnostic accuracy of	4.8 - Either include management of infective endocarditis or
chest X-ray for heart valve disease?	state it is excluded, as per previous suggestion for clinical
	areas. Stakeholders felt it does not make sense to only include one aspect of management here.

2	Medical management	Anticoagulation and antiplatelet therapy after intervention
	 2.1 What is the clinical and cost effectiveness of ACE inhibitors, ARBs and beta blockers for severe valve disease? 2.2 What is the clinical and cost effectiveness of beta blockers, calcium channel blockers, digoxin and diuretics 	 5.1 - Add antiplatelet therapy alongside antithrombotic therapy for clarity. 5.2 - Suggested that ' is bridging required' is a better question focus, as stakeholders felt it is overused in current practice. Monitoring 6.1 - Suggested rephrasing 'before intervention' to 'when
3	to transiently improve symptoms in people with valve disease? Indications for and timing of	there is no current indication for intervention'.
	interventions 3.1 What symptoms, signs and investigative findings indicate that interventions should be offered to	
	people with (a) aortic regurgitation, (b) aortic stenosis, (c) mitral regurgitation, (d) mitral stenosis, (e) tricuspid regurgitation, and (f) tricuspid stenosis?	

	3.2 What is the role of coronary	
	computed tomography in assessing	
	valve disease?	
4	Interventions for valve repair or	
	replacement	
	4.1 What is the clinical and cost	
	effectiveness of transcatheter	
	intervention or surgical intervention	
	(with mechanical or biological valves)	
	compared with conservative	
	management for people with aortic	
	stenosis?	
	4.2 What is the clinical and cost	
	effectiveness of transcatheter	
	intervention or surgical intervention	
	(with mechanical or biological valves or	
	with valve repair) compared with	
	conservative management for people	
	with aortic regurgitation?	

4.3 What is the clinical and cost	
effectiveness of transcatheter	
intervention or surgical intervention	
(with mechanical or biological valves)	
compared with conservative	
management for people with mitral	
stenosis?	
4.4 What is the clinical and cost	
effectiveness of transcatheter	
intervention or surgical intervention	
(with mechanical or biological valves or	
with valve repair) compared with	
conservative management for people	
with mitral regurgitation?	
4.5 What is the clinical and cost	
effectiveness of transcatheter	
intervention or surgical intervention	
(with mechanical or biological valves or	
with valve repair) compared with	
conservative management for people	

	with tricuspid regurgitation?	
	4.6 What is the clinical and cost	
	effectiveness of fibrinolysis compared	
	with surgery for prosthetic valve	
	thrombosis?	
	4.7 What is the clinical and cost	
	effectiveness of repeat valve	
	replacement compared with	
	transcatheter intervention for	
	prosthetic valve degeneration?	
	4.8 What is the clinical and cost	
	effectiveness of antibiotics alone versus	
	antibiotics plus surgery for the	
	treatment of infective endocarditis?	
5	Anticoagulation and antiplatelet	
	therapy after intervention	
	5.1 What is the clinical and cost	
	effectiveness of antithrombotic therapy	
	for people with prosthetic valves	

following transcatheter or surgical	
(mechanical or biological valve)	
intervention?	
5.2 What is the clinical and cost	
effectiveness of bridging agents for	
people who need to temporarily stop	
their anticoagulation?	
6 Monitoring	
6.1 How frequently and with what tests	
should people with heart valve disease	
be monitored before intervention?	
6.2 How frequently and with what tests	
should people with repaired or	
replaced valves be monitored?	
7 Information and support	
7.1 What information and advice	
should people affected by heart valve	
disease and their family and carers be	

given?		
3.6 Main outcomes	Are all outcomes appropriate?	Suggested adding 'need for reintervetion' to the list of
Mortality		outcomes.
Health-related quality of life		
Hospitalisation		
Heart failure		
Arrhythmias, for example atrial		
fibrillation		
Thromboembolic events		
Other adverse events		
GC composition	Do you have any comments on the	Stakeholders felt that the proposed membership is skewed
	proposed membership of the committee?	towards interventionalists, particularly given that the majority
Full Committee Members:		of heart valve disease patients are managed by non-
		interventionalists. They suggested having only one surgeon.
Chair (recruited)		
Topic adviser (cardiologist) (recruited)		Suggested a cardiac valve imaging expert as a full or co-opted
Early committee member (cardiac surgeon) (recruited)		member.
Interventional cardiologist x1		Suggested a pharmacist as a co-opted member as an
Cardiac surgeon (ideally with expertise in the		alternative to a co-opted haematologist.
mitral valve) x1		
General practitioner x1		
Lay member x2		
Cardiac nurse specialist (with interest in valve		

disease) x1		
<u>Co-optees</u>		
Echocardiography physiologist x1 Haematologist x1 End of life expert x1		