NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

Interventional Procedures Programme

Specialist Adviser questionnaire

Before completing this questionnaire, please read <u>Conflicts of Interest for Specialist Advisers</u>. Certain conflicts exclude you from offering advice, however, please return the questionnaire to us incomplete for our records.

Please respond in the boxes pr	rovided.
Please complete and return to: D	Deonee.Stanislaus@nice.org.uk
Procedure Name:	Sutureless Aortic Valve Replacement for aortic stenosis
Name of Specialist Advisor:	Govind Chetty
Specialist Society:	Society for Cardiothoracic Surgery in Great Britain and Ireland
1 Do you have adequate kn	owledge of this procedure to provide advice?
Yes. No – please return the for	m/answer no more questions.
1.1 Does the title used aboveYes.No. If no, please enter any	describe the procedure adequately? other titles below.
Comments:	El Carte de la Car
2 Your involvement in the p	rocedure
2.1 Is this procedure relevant Yes.	to your specialty?
Is there any kind of inter-s	pecialty controversy over the procedure?

	No. If no, then answer no more questions, but please give any information you can about who is likely to be doing the procedure.	
Comr	nents:	
The next 2 questions are about whether you carry out the procedure, or refer patients for it. If you are in a specialty that normally carries out the procedure please answer question 2.2.1. If you are in a specialty that normally selects or refers patients for the procedure, please answer question 2.2.2.		
2.2.1	If you are in a specialty that does this procedure, please indicate your experience with it:	
	I have never done this procedure.	
	I have done this procedure at least once.	
	I do this procedure regularly.	
Comr	nents:	
Oom		
2.2.2	If your specialty is involved in patient selection or referral to another specialty for this procedure, please indicate your experience with it.	
2.2.2		
2.2.2 	specialty for this procedure, please indicate your experience with it. I have never taken part in the selection or referral of a patient for this	
2.2.2	specialty for this procedure, please indicate your experience with it. I have never taken part in the selection or referral of a patient for this procedure. I have taken part in patient selection or referred a patient for this procedure at	
	specialty for this procedure, please indicate your experience with it. I have never taken part in the selection or referral of a patient for this procedure. I have taken part in patient selection or referred a patient for this procedure at least once.	
	specialty for this procedure, please indicate your experience with it. I have never taken part in the selection or referral of a patient for this procedure. I have taken part in patient selection or referred a patient for this procedure at least once. I take part in patient selection or refer patients for this procedure regularly.	
	specialty for this procedure, please indicate your experience with it. I have never taken part in the selection or referral of a patient for this procedure. I have taken part in patient selection or referred a patient for this procedure at least once. I take part in patient selection or refer patients for this procedure regularly.	
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	specialty for this procedure, please indicate your experience with it. I have never taken part in the selection or referral of a patient for this procedure. I have taken part in patient selection or referred a patient for this procedure at least once. I take part in patient selection or refer patients for this procedure regularly. ments: Please indicate your research experience relating to this procedure (please choose one or more if relevant):	
	specialty for this procedure, please indicate your experience with it. I have never taken part in the selection or referral of a patient for this procedure. I have taken part in patient selection or referred a patient for this procedure at least once. I take part in patient selection or refer patients for this procedure regularly. ments: Please indicate your research experience relating to this procedure (please choose one or more if relevant): I have done bibliographic research on this procedure. I have done research on this procedure in laboratory settings (e.g. device-	

	Other (please comment)
Con	nments:
3	Status of the procedure
3.1	Which of the following best describes the procedure (choose one):
V	Established practice and no longer new.
	A minor variation on an existing procedure, which is unlikely to alter the procedure's safety and efficacy.
	Definitely novel and of uncertain safety and efficacy.
	The first in a new class of procedure.
Con	nments:
2.0	Miles Amended by Alexander and Annual Amended Alexander (Alexander Alexander
3.2	What would be the comparator (standard practice) to this procedure?
	TAVI (albeit less invasive)
3.3	Please estimate the proportion of doctors in your specialty who are doing this procedure (choose one):
	More than 50% of specialists engaged in this area of work.
9	10% to 50% of specialists engaged in this area of work. (including Europe)
The state of the s	Fewer than 10% of specialists engaged in this area of work.
4	Cannot give an estimate.
Con	nments:
4	Safety and office by
4.1	Safety and efficacy What is the notential harm of the procedure?
	What is the potential harm of the procedure?
	se list adverse events and major risks (even if uncommon) and, if possible, nate their incidence, as follows:
1. A	Adverse events reported in the literature (if possible please cite literature)
	- paravalvular leaks lacemateur seguirement JTCVS (Volume 144, Issue 5

	2.	Anecdotal adverse events (known from experience)
		Parenche requirement.
	3.	Theoretical adverse events
		as above.
		What are the key efficacy outcomes for this procedure? - decreases cross clamp time + bardio pulmonary bygrown time - provides excellent harmodynamic characteristics - very useful to use in small and ic root Are there uncertainties or concerns about the efficacy of this procedure? If so, what are they?
	4.4	What training and facilities are needed to do this procedure safely?
		- need training on the implantation technique by an expert proctor - need to train to assemble the value need to train echo characteristics of the value.
	4.5	Are there any major trials or registries of this procedure currently in progress? If so, please list.
		- There is a lage properority matched multicentic Study Company TAVI (20 center) VIS Subveller vshe (3 center) -) see https://doi.org/10.1016/j.jtcvs. 2012.07.040. (by 6100 GIROSA) Are you aware of any abstracts that have been recently presented/
	4.6	Are you aware of any abstracts that have been recently presented/ published on this procedure that may not be listed in a standard literature search, for example PUBMED? (This can include your own work). If yes, please list.
		Please note that NICE will do a literature search: we are only asking you for any very recent or potentially obscure abstracts and papers. Please do not feel the need to supply a comprehensive reference list (but you may list any that you think are particularly important if you wish).
		(y Annel of Thornic Surgery Vol 93, Issue 5, May 2012 P 1483-58
	4.7	Is there controversy, or important uncertainty, about any aspect of the way in which this procedure is currently being done or disseminated?
1		Audit Criteria Passe suggest a minimum dataset of criteria by which this procedure could be dited. (a) Symptometric relief (b) Length of hospital stay (b) Cross damp time (c) Parenches reprisered (d) Byyon brine, (d) pre and poor spendine oradient
		4 (7) Source with

5.1 Outcome measures of benefit (including commonly used clinical outcomes, both short and long - term; and quality-of-life measures). Please suggest the most appropriate method of measurement for each:
- Ecto recoverent of godierts (introp) and portof. - patent quetty of the greenomer requirement rate Survivel. 5.2 Adverse outcomes (including potential early and late complications). Please state timescales for measurement e.g. bleeding complications up to 1 month post-procedure: (1) Meeding - within 48 hours Survivel rde. (2) Paumeler requirement
6 Trajectory of the procedure
6.1 In your opinion, how quickly do you think use of this procedure will spread?
which will nele it more cost effective than TAVI in high risk
Lusul.
6.2 This procedure, if safe and efficacious, is likely to be carried out in (choose one):
Most or all district general hospitals.
A minority of hospitals, but at least 10 in the UK. (Tertiam certical)
Fewer than 10 specialist centres in the UK.
Cannot predict at present.
Comments:
6.3 The potential impact of this procedure on the NHS, in terms of numbers of patients eligible for treatment and use of resources, is:
Major.
Moderate.
☐ Minor.
Comments: both running in rome approach, the cost will be significantly love from TAVI for NHS in general in high rish patients.
7 Other information
7.1 Is there any other information about this procedure that might assist NICE in assessing the possible need to investigate its use?

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8 Data protection and conflicts of interest

8. Data protection, freedom of information and conflicts of interest

8.1 Data Protection

The information you submit on this form will be retained and used by the NICE and its advisers for the purpose of developing its guidance and may be passed to other approved third parties. Your name and specialist society will be published in NICE publications and on the NICE website. The specialist advice questionnaire will be published in accordance with our guidance development processes and a copy will be sent to the nominating Specialist Society. Please avoid identifying any individual in your comments.

I have read and understood this statement and accept that personal information sent to us will be retained and used for the purposes and in the manner specified above and in accordance with the Data Protection Act 1998.

8.2 Declarations of interest by Specialist Advisers advising the NICE Interventional Procedures Advisory Committee

Nothing in your submission shall restrict any disclosure of information by NICE that is required by law (including in particular, but without limitation, the Freedom of Information Act 2000).

Please submit a conflicts of interest declaration form listing any potential conflicts of interest including any involvement you may have in disputes or complaints relating to this procedure.

Please use the "Conflicts of Interest for Specialist Advisers" policy as a guide when declaring any conflicts of interest. Specialist Advisers should seek advice if needed from the Associate Director – Interventional Procedures.

Do you or a member of your family have a **personal pecuniary** interest? The main examples are as follows:

Consultancies or directorships attracting regular or occasional	☐ YES
payments in cash or kind	□ ∕ NO
Fee-paid work – any work commissioned by the healthcare industry – this includes income earned in the course of private practice	☐ YES

¹ 'Family members' refers to a spouse or partner living in the same residence as the member or employee, children for whom the member or employee is legally responsible, and adults for whom the member or employee is legally responsible (for example, an adult whose full power of attorney is held by the individual).

Shareholdings – any shareholding, or other beneficial interest, in sh of the healthcare industry			YES NO
Expenses and hospitality – any expenses provided by a healthcare industry company beyond those reasonably required for accommoda			YES
meals and travel to attend meetings and conferences		3	NO
Investments – any funds that include investments in the healthcare industry]	YES
	,	1	NO
Do you have a personal non-pecuniary interest – for example have made a public statement about the topic or do you hold an office in a professional organisation or advocacy group with a direct interest in t			YES
topic?	[₽	NO
Do you have a non-personal interest? The main examples are as fo	llows:		
Fellowships endowed by the healthcare industry	[J,	YES
		3	NO
Support by the healthcare industry or NICE that benefits his/her position or department, eg grants, sponsorship of posts			YES
			NO
If you have answered YES to any of the above statements, pleas nature of the conflict(s) below.	e descr	ibe	the
Comments:			
Thank you very much for your help.			
Dr Tom Clutton-Brock, Interventional Professor Carole Longs Procedures Advisory Committee Chair Centre for Health Technical Evaluation.		ect	or,
Jan 2016			

Conflicts of Interest for Specialist Advisers

- 1 Declarations of interest by Specialist Advisers advising the NICE Interventional Procedures Advisory Committee
- 1.1 Any conflicts of interest set out below should be declared on the questionnaire the Specialist Adviser completes for the procedure.
- 1.2 Specialist Advisers should seek advice if required from the Associate Director Interventional Procedures.
- 2 Personal pecuniary interests
- 2.1 A personal pecuniary interest involves a current personal payment to a Specialist Adviser, which may either relate to the manufacturer or owner of a product or service being evaluated, in which case it is regarded as 'specific' or to the industry or sector from which the product or service comes, in which case it is regarded as 'non-specific'. The main examples are as follows.
- 2.1.1 Consultancies any consultancy, directorship, position in or work for the healthcare industry that attracts regular or occasional payments in cash or kind (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place).
- 2.1.2 **Fee-paid work** any work commissioned by the healthcare industry for which the member is paid in cash or in kind (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place).
- 2.1.3 Shareholdings any shareholding, or other beneficial interest, in shares of the healthcare industry that are either held by the individual or for which the individual has legal responsibility (for example, children, or relatives whose full Power of Attorney is held by the individual). This does not include shareholdings through unit trusts, pensions funds, or other similar arrangements where the member has no influence on financial management.
- 2.1.4 Expenses and hospitality any expenses provided by a healthcare industry company beyond that reasonably required for accommodation, meals and travel to attend meetings and conferences (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place.
- 2.1.5 **Investments** any funds which include investments in the healthcare industry that are held in a portfolio over which individuals have the ability to instruct the fund manager as to the composition of the fund.
- 2.2 No personal interest exists in the case of:
- 2.2.1 assets over which individuals have no financial control (for example, wide portfolio unit trusts and occupational pension funds) and where the fund manager has full discretion as to its composition (for example, the Universities Superannuation Scheme)
- 2.2.2 accrued pension rights from earlier employment in the healthcare industry.

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Interventional Procedures Programme

Specialist Adviser questionnaire

Before completing this questionnaire, please read <u>Conflicts of Interest for Specialist Advisers</u>. Certain conflicts exclude you from offering advice, however, please return the questionnaire to us incomplete for our records.

Plea	ase respond in the boxes pro	ovided.
Plea	ase complete and return to: De	eonee.Stanislaus@nice.org.uk
Pro	cedure Name:	Sutureless Aortic Valve Replacement for aortic stenosis (IP865/2)
Nan	ne of Specialist Advisor:	Mr Geoff Tsang
Spe	cialist Society:	Royal College of Surgeons
1	Do you have adequate kno	wledge of this procedure to provide advice?
$\sqrt{}$	Yes.	
	No – please return the form	n/answer no more questions.
1.1	Does the title used above of	describe the procedure adequately?
	Yes.	
$\sqrt{}$	No. If no, please enter any c	other titles below.
Con	nments:	
		for aortic valve replacement (although mainly used to replace the valve in aortic incompetence).
2	Your involvement in the pr	ocedure
2.1	Is this procedure relevant	to your specialty?
$\sqrt{}$	Yes.	
	Is there any kind of inter-sp	pecialty controversy over the procedure?

	No. If no, then answer no more questions, but please give any information you can about who is likely to be doing the procedure.		
Com	ments:		
The next 2 questions are about whether you carry out the procedure, or refer patients for it. If you are in a specialty that normally carries out the procedure please answer question 2.2.1. If you are in a specialty that normally selects or refers patients for the procedure, please answer question 2.2.2.			
2.2.1	If you are in a specialty that does this procedure, please indicate your experience with it:		
	I have never done this procedure.		
	I have done this procedure at least once.		
$\sqrt{}$	I do this procedure regularly.		
Com	ments:		
Com	ments.		
expe	My experience is mainly with the Intuity valve (Edwards Lifescience). I have limited experience with the Percival valve (LivaNova) and no practical experience with the 3F Enable valve (Medtronic)		
2.2.2	If your specialty is involved in patient selection or referral to another specialty for this procedure, please indicate your experience with it.		
	I have never taken part in the selection or referral of a patient for this procedure.		
	I have taken part in patient selection or referred a patient for this procedure at least once.		
	I take part in patient selection or refer patients for this procedure regularly.		
Com	ments:		
2.3	Please indicate your research experience relating to this procedure (please choose one or more if relevant):		
$\sqrt{}$	I have done bibliographic research on this procedure.		
	I have done research on this procedure in laboratory settings (e.g. device-related research).		
	I have done clinical research on this procedure involving patients or healthy volunteers.		

	I have had no involvement in research on this procedure.
	Other (please comment)
Com	ments:
3	Status of the procedure
3.1	Which of the following best describes the procedure (choose one):
$\sqrt{}$	Established practice and no longer new.
	A minor variation on an existing procedure, which is unlikely to alter the procedure's safety and efficacy.
	Definitely novel and of uncertain safety and efficacy.
	The first in a new class of procedure.
Com	iments:
3.2	What would be the comparator (standard practice) to this procedure?
Conv	ventional sutured aortic valve prosthesis
3.3	Please estimate the proportion of doctors in your specialty who are doing this procedure (choose one):
	More than 50% of specialists engaged in this area of work.
$\sqrt{}$	10% to 50% of specialists engaged in this area of work.
	Fewer than 10% of specialists engaged in this area of work.
	Cannot give an estimate.
Com	iments:
4	Safety and efficacy
4.1	What is the potential harm of the procedure?

Please list adverse events and major risks (even if uncommon) and, if possible, estimate their incidence, as follows:

1. Adverse events reported in the literature (if possible please cite literature)

Sizing of the valve is crucial. If sizing is wrong or there is maldeployment, then valvular dysfunction and in particular paravalvular leak can occur. Initial reports were high particularly with the Percival valve but current reports are comparable for all the 3 valves (2-4%) but still slightly higher than for conventional sutured valves.

'Stent Creep" and 'Stent Fatique' leading to later distortion and malfunction have been reported with the Pericival valve.

Increase rate of post procedural permanent pace maker required particularly with Percival Valve.

2. Anecdotal adverse events (known from experience)

Excessively calcified aortic root and annulus leading to inadequate decalcification and paravalvular leak

3. Theoretical adverse events

Long term results of valvular function unknown. The 3F Enable and Percival valves are based on new designs. The Intuity valve is a conventional valve with a new anchoring mechanism so may be reasonable to extrapolate long term function data from conventional valve but still no long term data regarding the actual valve.

4.2 What are the key efficacy outcomes for this procedure?

Significant reduction in cardiopulmonary bypass, cross clamp and overall procedural time. May be associated with lower postoperative complications and shorter hospital stay but not well established.

Lower transvalvular gradients when compared to equivalent conventional aortic valve prosthesis may have long term advantages regarding patient prosthesis mismatch and left ventricular remodelling but no long term data available.

Regarded as a useful adjunct in minimally invasive aortic valve replacement by facilitating access and reducing cross clamp, cardiopulmonary bypass and procedural time.

Aid in dealing with difficult aortic roots (small roots, excessively calcified roots), 'redos' where access may be difficult and where AVR is part of a complex operation (to reduce operation time).

4.3 Are there uncertainties or concerns about the *efficacy* of this procedure? If so, what are they?

There is a significant learning curve both in judgment and the practicality of implanting sutureless aortic valves.

4.4 What training and facilities are needed to do this procedure safely?

Procedure should be performed by surgeons who have a reasonable size AVR practice (>50 per year). Proctorship by an experience surgeon in sutureless AVR for at least 2 cases.

4.5 Are there any major trials or registries of this procedure currently in progress? If so, please list.

International Valvular Surgery Study Group (IVSSG): Sutureless Projects. Formed in 2015 (meant to stop recruiting in 2018) but there has been no updates so I am not sure how successful it has been.

Edwards Lifescience hold a registry regarding the Intuity valve. I am not sure if LivaNova and Medtronic do the same for the Percival and 3F Enable valves respectively.

4.6 Are you aware of any abstracts that have been *recently* presented/ published on this procedure that may not be listed in a standard literature search, for example PUBMED? (This can include your own work). If yes, please list.

Please note that NICE will do a literature search: we are only asking you for any very recent or potentially obscure abstracts and papers. Please do not feel the need to supply a comprehensive reference list (but you may list any that you think are particularly important if you wish).

No

4.7 Is there controversy, or important uncertainty, about any aspect of the way in which this procedure is currently being done or disseminated?

No

5 Audit Criteria

Please suggest a minimum dataset of criteria by which this procedure could be audited.

Pre-operative: Age, diagnosis, LV function, NYHA classification. Risk factors such as hypertension, lung and renal function.

Operative: Access. Type of valve. Concomitant procedures. Presence or absence of paravalvular leaks (if present, what remedial action were taken). Cross clamp, cardiopulmonary bypass and total procedural time. Transvalvular gradient and LV function.

Post-operative. Reoperation. 24 hour blood lost, total ventilation time. ICU and hospital stay. Need for permanent pace maker. Valvular function on discharge (Transvalvular gradient, paravalvular leak and LV function). Survival

5.1 Outcome measures of benefit (including commonly used clinical outcomes, both short and long - term; and quality-of-life measures). Please suggest the most appropriate method of measurement for each:

Short term measures as above:

Long term: Survival, Valvular and LV function by echo at 6 months and then yearly. NYHA classification.

5.2 Adverse outcomes (including potential early and late complications). Please state timescales for measurement e.g. bleeding complications up to 1 month post-procedure:

Major concerns are valve function, paravalvular leak and the requirement for permanent pacemakers. The short term rate are reasonably well documented but there is little long term data particularly on valvular function. Therefore regular (yearly) monitoring is required until such data is available to issue guidance.

- 6 Trajectory of the procedure
- 6.1 In your opinion, how quickly do you think use of this procedure will spread?

The German Aortic Valve Registry suggests that the uptake rate went from approximately 1% to 10% over a 5 year period (2011 to 2015). This uptake rate may slow down because of the increase in Transcatheter Aortic Valve Implantation (TAVI).

The major limitations in the UK are the increased cost of the sutureless valve and the initial concern of paravalvular leak (which is technique and experience related). It may be advantageous in minimally invasive aortic valve replacement (miAVR) but uptake of miAVR is slow in the UK (currently about 10% of AVRs). Therefore I do not think sutureless AVR will account for more than 20% of the AVRs in the next 5 to 10 years)

6.2 (choo	This procedure, if safe and efficacious, is likely to be carried out in se one):
	Most or all district general hospitals.
$\sqrt{}$	A minority of hospitals, but at least 10 in the UK.
	Fewer than 10 specialist centres in the UK.
	Cannot predict at present.
Comments:	
Most cardiac units in the UK.	

6.3 The potential impact of this procedure on the NHS, in terms of numbers of patients eligible for treatment and use of resources, is:

Comm	ents:
	Minor.
$\sqrt{}$	Moderate.
	Major.

7 Other information

- 7.1 Is there any other information about this procedure that might assist NICE in assessing the possible need to investigate its use?
- 8 Data protection and conflicts of interest
- 8. Data protection, freedom of information and conflicts of interest
- 8.1 Data Protection

The information you submit on this form will be retained and used by the NICE and its advisers for the purpose of developing its guidance and may be passed to other approved third parties. Your name and specialist society will be published in NICE publications and on the NICE website. The specialist advice questionnaire will be published in accordance with our guidance development processes and a copy will be sent to the nominating Specialist Society. Please avoid identifying any individual in your comments.

 \sqrt{I} have read and understood this statement and accept that personal information sent to us will be retained and used for the purposes and in the manner specified above and in accordance with the Data Protection Act 1998.

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Nothing in your submission shall restrict any disclosure of information by NICE that is required by law (including in particular, but without limitation, the Freedom of Information Act 2000).

Please submit a conflicts of interest declaration form listing any potential conflicts of interest including any involvement you may have in disputes or complaints relating to this procedure.

Please use the "Conflicts of Interest for Specialist Advisers" policy as a guide when declaring any conflicts of interest. Specialist Advisers should seek advice if needed from the Associate Director – Interventional Procedures.

Do you or a member of your family have a **personal pecuniary** interest? The main examples are as follows: Consultancies or directorships attracting regular or occasional YES payments in cash or kind NO Fee-paid work – any work commissioned by the healthcare industry – **YES** this includes income earned in the course of private practice NO **Shareholdings** – any shareholding, or other beneficial interest, in shares ☐ YES of the healthcare industry NO **Expenses and hospitality** – any expenses provided by a healthcare YES industry company beyond those reasonably required for accommodation, meals and travel to attend meetings and conferences $\sqrt{}$ NO **Investments** – any funds that include investments in the healthcare YES industry NO Do you have a **personal non-pecuniary** interest – for example have you YES made a public statement about the topic or do you hold an office in a professional organisation or advocacy group with a direct interest in the NO topic? Do you have a **non-personal** interest? The main examples are as follows: **Fellowships** endowed by the healthcare industry YES NO Support by the healthcare industry or NICE that benefits his/her **YES** position or department, eg grants, sponsorship of posts NO If you have answered YES to any of the above statements, please describe the nature of the conflict(s) below. Comments: I hold a consultancy contract with Vascutek Ltd and act as a proctor for implantation of the Thoraflex Hybrid stent graft. Thank you very much for your help. **Dr Tom Clutton-Brock, Interventional Professor Carole Longson, Director, Procedures Advisory Committee Chair Centre for Health Technology** Evaluation.

¹ 'Family members' refers to a spouse or partner living in the same residence as the member or employee, children for whom the member or employee is legally responsible, and adults for whom the member or employee is legally responsible (for example, an adult whose full power of attorney is held by the individual).

Jan 2016

Conflicts of Interest for Specialist Advisers

- 1 Declarations of interest by Specialist Advisers advising the NICE Interventional Procedures Advisory Committee
- 1.1 Any conflicts of interest set out below should be declared on the questionnaire the Specialist Adviser completes for the procedure.
- 1.2 Specialist Advisers should seek advice if required from the Associate Director Interventional Procedures.

2 Personal pecuniary interests

- 2.1 A personal pecuniary interest involves a current personal payment to a Specialist Adviser, which may either relate to the manufacturer or owner of a product or service being evaluated, in which case it is regarded as 'specific' or to the industry or sector from which the product or service comes, in which case it is regarded as 'non-specific'. The main examples are as follows.
- 2.1.1 **Consultancies** any consultancy, directorship, position in or work for the healthcare industry that attracts regular or occasional payments in cash or kind (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place).
- 2.1.2 **Fee-paid work** any work commissioned by the healthcare industry for which the member is paid in cash or in kind (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place).
- 2.1.3 **Shareholdings** any shareholding, or other beneficial interest, in shares of the healthcare industry that are either held by the individual or for which the individual has legal responsibility (for example, children, or relatives whose full Power of Attorney is held by the individual). This does not include shareholdings through unit trusts, pensions funds, or other similar arrangements where the member has no influence on financial management.
- 2.1.4 **Expenses and hospitality** any expenses provided by a healthcare industry company beyond that reasonably required for accommodation, meals and travel to attend meetings and conferences (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place.
- 2.1.5 **Investments** any funds which include investments in the healthcare industry that are held in a portfolio over which individuals have the ability to instruct the fund manager as to the composition of the fund.
- 2.2 No personal interest exists in the case of:
- 2.2.1 assets over which individuals have no financial control (for example, wide portfolio unit trusts and occupational pension funds) and where the fund manager has full discretion as to its composition (for example, the Universities Superannuation Scheme)
- 2.2.2 accrued pension rights from earlier employment in the healthcare industry.

3 Personal family interest

- 3.1 This relates to the personal interests of a family member and involves a **current payment** to the family member of the Specialist Adviser. The interest may relate to the manufacturer or owner of a product or service being evaluated, in which case it is regarded as '**specific**', or to the industry or sector from which the product or service comes, in which case it is regarded as '**non-specific**'. The main examples include the following.
- 3.1.1 Any consultancy, directorship, position in or work for a healthcare industry that attracts regular or occasional payments in cash or in kind.
- 3.1.2 Any fee-paid work commissioned by a healthcare industry for which the member is paid in cash or in kind.
- 3.1.3 Any shareholdings, or other beneficial interests, in a healthcare industry which are either held by the family member or for which an individual covered by this Code has legal responsibility (for example, children, or adults whose full Power of Attorney is held by the individual).
- 3.1.4 Expenses and hospitality provided by a healthcare industry company (except where they are provided to a general class of people such as attendees at an open conference)
- 3.1.5 Funds which include investments in the healthcare industry that are held in a portfolio over which individuals have the ability to instruct the fund manager as to the composition of the fund.
- 3.2 No personal family interest exists in the case of:
- 3.2.1 assets over which individuals have no financial control (for example, wide portfolio unit trusts and occupational pension funds) and where the fund manager has full discretion as to its composition (for example, the Universities Superannuation Scheme)
- 3.2.2 accrued pension rights from earlier employment in the healthcare industry.

4 Personal non-pecuniary interests

These might include, but are not limited to:

- 4.1 a clear opinion, reached as the conclusion of a research project, about the clinical and/or cost effectiveness of an intervention under review
- 4.2 a public statement in which an individual covered by this Code has expressed a clear opinion about the matter under consideration, which could reasonably be interpreted as prejudicial to an objective interpretation of the evidence
- 4.3 holding office in a professional organisation or advocacy group with a direct interest in the matter under consideration
- 4.4 other reputational risks in relation to an intervention under review.

5 Non-personal interests

5.1 A non-personal interest involves payment that benefits a department or organisation for which a Specialist Advisor is responsible, but that is not received by the Specialist Advisor personally. This may either relate to the product or service being evaluated, in which case it is regarded as 'specific,' or to the manufacturer or owner of the product or service, but is unrelated to the matter under consideration, in which case it is regarded as 'non-specific'. The main examples are as follows.

- 5.1.1 **Fellowships** the holding of a fellowship endowed by the healthcare industry.
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- a grant from a company for the running of a unit or department for which a Specialist Advisor is responsible
- a grant, fellowship or other payment to sponsor a post or member of staff in the unit for which a Specialist Adviser is responsible. This does not include financial assistance for students
- the commissioning of research or other work by, or advice from, staff who work in a unit for which the specialist advisor is responsible
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- 5.2 Specialist Advisers are under no obligation to seek out knowledge of work done for, or on behalf of, the healthcare industry within departments for which they are responsible if they would not normally expect to be informed.

NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

Interventional Procedures Programme

Specialist Adviser questionnaire

Before completing this questionnaire, please read <u>Conflicts of Interest for Specialist Advisers</u>. Certain conflicts exclude you from offering advice, however, please return the questionnaire to us incomplete for our records.

Please respond in the boxes provided.				
Plea	Please complete and return to: Deonee.Stanislaus@nice.org.uk			
Procedure Name:		Sutureless Aortic Valve Replacement for aortic stenosis		
Nam	ne of Specialist Advisor:	Kulvinder Lall		
Specialist Society:		British Cardiovascular Society		
1	Do you have adequate know	ledge of this procedure to provide advice?		
\boxtimes	Yes.			
	No – please return the form/a	answer no more questions.		
1.1	Does the title used above de	scribe the procedure adequately?		
\boxtimes	Yes.			
	No. If no, please enter any other titles below.			
Con	nments:			
2	Your involvement in the pro-			
2.1	Is this procedure relevant to	your specialty?		
	Yes.			
	Is there any kind of inter-spe	cialty controversy over the procedure?		

	No. If no, then answer no more questions, but please give any information you can about who is likely to be doing the procedure.		
Com	ments:		
The next 2 questions are about whether you carry out the procedure, or refer patients for it. If you are in a specialty that normally carries out the procedure please answer question 2.2.1. If you are in a specialty that normally selects or refers patients for the procedure, please answer question 2.2.2.			
2.2.1	If you are in a specialty that does this procedure, please indicate your experience with it:		
	I have never done this procedure.		
	I have done this procedure at least once.		
	I do this procedure regularly.		
Comi	ments:		
I perfe	orm 3-4 of these procedures/month		
2.2.2	If your specialty is involved in patient selection or referral to another specialty for this procedure, please indicate your experience with it.		
	I have never taken part in the selection or referral of a patient for this procedure.		
	I have taken part in patient selection or referred a patient for this procedure at least once.		
\boxtimes	I take part in patient selection or refer patients for this procedure regularly.		
Com	ments:		
	Please indicate your research experience relating to this procedure (please choose one or more if relevant):		
\boxtimes	I have done bibliographic research on this procedure.		
	I have done research on this procedure in laboratory settings (e.g. device-related research).		
	I have done clinical research on this procedure involving patients or healthy volunteers.		
	I have had no involvement in research on this procedure.		

	Other (please comment)
Cor	mments:
3	Status of the procedure
3.1	Which of the following best describes the procedure (choose one):
\boxtimes	Established practice and no longer new.
	A minor variation on an existing procedure, which is unlikely to alter the procedure's safety and efficacy.
	Definitely novel and of uncertain safety and efficacy.
	The first in a new class of procedure.
Cor	mments:
3.2	What would be the comparator (standard practice) to this procedure?
Sur	gical Aortic Valve Replacement and TAVI
3.3	Please estimate the proportion of doctors in your specialty who are doing this procedure (choose one):
	More than 50% of specialists engaged in this area of work.
	10% to 50% of specialists engaged in this area of work.
\boxtimes	Fewer than 10% of specialists engaged in this area of work.
	Cannot give an estimate.
Cor	mments:
Nev	w valve and triple price of surgical valves so no widespread use yet.
4	Safety and efficacy
4.1	What is the potential harm of the procedure?
	ase list adverse events and major risks (even if uncommon) and, if possible, mate their incidence, as follows:
1	Adverse events reported in the literature (if possible please cite literature)

As for standard AVR.. 1% death, stroke, pacemaker

2. Anecdotal adverse events (known from experience)

Pacemaker, redeployment of valve

3. Theoretical adverse events

Death stroke, pacemaker, eventual valve failure (tissue valve)

4.2 What are the key efficacy outcomes for this procedure?

Decrease bypass, cross clamp times and reduced hospital length of stay

4.3 Are there uncertainties or concerns about the *efficacy* of this procedure? If so, what are they?

No good long term data on durability

4.4 What training and facilities are needed to do this procedure safely?

Proctoring route

4.5 Are there any major trials or registries of this procedure currently in progress? If so, please list.

Not to my knowledge

4.6 Are you aware of any abstracts that have been *recently* presented/ published on this procedure that may not be listed in a standard literature search, for example PUBMED? (This can include your own work). If yes, please list.

Please note that NICE will do a literature search: we are only asking you for any very recent or potentially obscure abstracts and papers. Please do not feel the need to supply a comprehensive reference list (but you may list any that you think are particularly important if you wish).

Not recent

4.7 Is there controversy, or important uncertainty, about any aspect of the way in which this procedure is currently being done or disseminated?

no

5 Audit Criteria

Please suggest a minimum dataset of criteria by which this procedure could be audited.

	Outcome measures of benefit (including commonly used clinical mes, both short and long - term; and quality-of-life measures). Please est the most appropriate method of measurement for each:		
Death	, pacemaker rate, freedom from reoperation		
	Adverse outcomes (including potential early and late complications). e state timescales for measurement e.g. bleeding complications up to 1 post-procedure:		
	ing immediately post op, death, stroke, wound infection, migration of valve, ual valve failure		
6	Trajectory of the procedure		
6.1 In your opinion, how quickly do you think use of this procedure will spread?			
If cost	comes down, very quickly		
6.2 (choo	This procedure, if safe and efficacious, is likely to be carried out in se one):		
	Most or all district general hospitals.		
	A minority of hospitals, but at least 10 in the UK.		
\boxtimes	Fewer than 10 specialist centres in the UK.		
	Cannot predict at present.		
Comn	nents:		
6.3 The potential impact of this procedure on the NHS, in terms of numbers of patients eligible for treatment and use of resources, is:			
	Major.		
\boxtimes	Moderate.		
	Minor.		
Comments:			
7	Other information		
7.1 Is there any other information about this procedure that might assist NICE in assessing the possible need to investigate its use?			

8 Data protection and conflicts of interest

8. Data protection, freedom of information and conflicts of interest

8.1 Data Protection

The information you submit on this form will be retained and used by the NICE and its advisers for the purpose of developing its guidance and may be passed to other approved third parties. Your name and specialist society will be published in NICE publications and on the NICE website. The specialist advice questionnaire will be published in accordance with our guidance development processes and a copy will be sent to the nominating Specialist Society. Please avoid identifying any individual in your comments.

I have read and understood this statement and accept that personal information sent to us will be retained and used for the purposes and in the manner specified above and in accordance with the Data Protection Act 1998.

8.2 Declarations of interest by Specialist Advisers advising the NICE Interventional Procedures Advisory Committee

Nothing in your submission shall restrict any disclosure of information by NICE that is required by law (including in particular, but without limitation, the Freedom of Information Act 2000).

Please submit a conflicts of interest declaration form listing any potential conflicts of interest including any involvement you may have in disputes or complaints relating to this procedure.

Please use the "Conflicts of Interest for Specialist Advisers" policy as a guide when declaring any conflicts of interest. Specialist Advisers should seek advice if needed from the Associate Director – Interventional Procedures.

Do you or a member of your family¹ have a **personal pecuniary** interest? The main examples are as follows:

Consultancies or directorships attracting regular or occasional		YES
payments in cash or kind	\boxtimes	NO
Fee-paid work – any work commissioned by the healthcare industry – this includes income earned in the course of private practice		YES
	\boxtimes	NO

¹ 'Family members' refers to a spouse or partner living in the same residence as the member or employee, children for whom the member or employee is legally responsible, and adults for whom the member or employee is legally responsible (for example, an adult whose full power of attorney is held by the individual).

Shareholdings – any shareholding, or other beneficial interest, in shares of the healthcare industry			YES NO
Expenses and hospitality – any expenses provided by a healthcare industry company beyond those reasonably required for accommodation,			YES
meals and travel to attend meetings and conferences			NO
Investments – any funds that include inves	stments in the healthcare		YES
industry	industry		
Do you have a personal non-pecuniary interest – for example have you made a public statement about the topic or do you hold an office in a			YES
professional organisation or advocacy group with a direct interest in the topic?		\boxtimes	NO
Do you have a non-personal interest? The	e main examples are as follows:		
Fellowships endowed by the healthcare industry			YES
		\boxtimes	NO
Support by the healthcare industry or NICE that benefits his/her position or department, eg grants, sponsorship of posts			YES
			NO
If you have answered YES to any of the above statements, please describe the nature of the conflict(s) below.			
Comments:			
Thank you very much for your help.			
Dr Tom Clutton-Brock, Interventional Professor Carole Longson, Director, Centre for Health Technology Evaluation.			or,

Jan 2016

Conflicts of Interest for Specialist Advisers

- 1 Declarations of interest by Specialist Advisers advising the NICE Interventional Procedures Advisory Committee
- 1.1 Any conflicts of interest set out below should be declared on the questionnaire the Specialist Adviser completes for the procedure.
- 1.2 Specialist Advisers should seek advice if required from the Associate Director Interventional Procedures.

2 Personal pecuniary interests

- 2.1 A personal pecuniary interest involves a current personal payment to a Specialist Adviser, which may either relate to the manufacturer or owner of a product or service being evaluated, in which case it is regarded as 'specific' or to the industry or sector from which the product or service comes, in which case it is regarded as 'non-specific'. The main examples are as follows.
- 2.1.1 **Consultancies** any consultancy, directorship, position in or work for the healthcare industry that attracts regular or occasional payments in cash or kind (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place).
- 2.1.2 **Fee-paid work** any work commissioned by the healthcare industry for which the member is paid in cash or in kind (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place).
- 2.1.3 **Shareholdings** any shareholding, or other beneficial interest, in shares of the healthcare industry that are either held by the individual or for which the individual has legal responsibility (for example, children, or relatives whose full Power of Attorney is held by the individual). This does not include shareholdings through unit trusts, pensions funds, or other similar arrangements where the member has no influence on financial management.
- 2.1.4 **Expenses and hospitality** any expenses provided by a healthcare industry company beyond that reasonably required for accommodation, meals and travel to attend meetings and conferences (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place.
- 2.1.5 **Investments** any funds which include investments in the healthcare industry that are held in a portfolio over which individuals have the ability to instruct the fund manager as to the composition of the fund.
- 2.2 No personal interest exists in the case of:
- 2.2.1 assets over which individuals have no financial control (for example, wide portfolio unit trusts and occupational pension funds) and where the fund manager has full discretion as to its composition (for example, the Universities Superannuation Scheme)
- 2.2.2 accrued pension rights from earlier employment in the healthcare industry.

3 Personal family interest

- 3.1 This relates to the personal interests of a family member and involves a **current payment** to the family member of the Specialist Adviser. The interest may relate to the manufacturer or owner of a product or service being evaluated, in which case it is regarded as '**specific**', or to the industry or sector from which the product or service comes, in which case it is regarded as '**non-specific**'. The main examples include the following.
- 3.1.1 Any consultancy, directorship, position in or work for a healthcare industry that attracts regular or occasional payments in cash or in kind.
- 3.1.2 Any fee-paid work commissioned by a healthcare industry for which the member is paid in cash or in kind.
- 3.1.3 Any shareholdings, or other beneficial interests, in a healthcare industry which are either held by the family member or for which an individual covered by this Code has legal responsibility (for example, children, or adults whose full Power of Attorney is held by the individual).
- 3.1.4 Expenses and hospitality provided by a healthcare industry company (except where they are provided to a general class of people such as attendees at an open conference)
- 3.1.5 Funds which include investments in the healthcare industry that are held in a portfolio over which individuals have the ability to instruct the fund manager as to the composition of the fund.
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These might include, but are not limited to:

- 4.1 a clear opinion, reached as the conclusion of a research project, about the clinical and/or cost effectiveness of an intervention under review
- 4.2 a public statement in which an individual covered by this Code has expressed a clear opinion about the matter under consideration, which could reasonably be interpreted as prejudicial to an objective interpretation of the evidence
- 4.3 holding office in a professional organisation or advocacy group with a direct interest in the matter under consideration
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NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

Interventional Procedures Programme

Specialist Adviser questionnaire

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Pleas	se respond in the boxes p	rovided.
Pleas	se complete and return to: [Deonee.Stanislaus@nice.org.uk
Proc	edure Name;	Sutureless Aortic Valve Replacement for aortic stenosis
Nam	e of Specialist Advisor:	Dr Joe Zacharias
Spec	ialist Society:	Society for Cardiothoracic Surgery in Great Britain and Ireland
1	Do you have adequate kr	nowledge of this procedure to provide advice?
	Yes.	
	No – please return the fo	rm/answer no more questions.
1.1		e describe the procedure adequately?
Y	Yes.	
	No. If no, please enter any	other titles below,
Com	ments:	
2	Your involvement in the	procedure
2.1	Is this procedure relevan	t to your specialty?
~	Yes.	

Is there any kind of inter-specialty controversy over the procedure?

Other (please comment)			
Comments:			
3 Status of the procedure			
3.1 Which of the following best describes the procedure (choose one):			
Established practice and no longer new.			
A minor variation on an existing procedure, which is unlikely to alter the procedure's safety and efficacy.			
Definitely novel and of uncertain safety and efficacy.			
The first in a new class of procedure.			
Comments:			
3.2 What would be the comparator (standard practice) to this procedure?			
3.3 Please estimate the proportion of doctors in your specialty who are doing this procedure (choose one):			
More than 50% of specialists engaged in this area of work.			
10% to 50% of specialists engaged in this area of work.			
Fewer than 10% of specialists engaged in this area of work.			
Cannot give an estimate,			
Comments:			
4 Safety and efficacy			
4.1 What is the potential harm of the procedure?			
Please list adverse events and major risks (even if uncommon) and, if possible, estimate their incidence, as follows:			
Adverse events reported in the literature (if possible please cite literature)			

INCREASED PACEMAKER RATE

outcomes, both short and long - term; and quality-of-life measures). Please suggest the most appropriate method of measurement for each:
5.2 Adverse outcomes (including potential early and late complications). Please state timescales for measurement e.g. bleeding complications up to 1 month post-procedure:
NAME KMON
6 Trajectory of the procedure
6.1 In your opinion, how quickly do you think use of this procedure will spread?
VERY QUICK IF TOO VALUE IS
MARE OFFERDASUS
6.2 This procedure, if safe and efficacious, is likely to be carried out in (choose one):
Most or all district general hospitals.
A minority of hospitals, but at least 10 in the UK.
Fewer than 10 specialist centres in the UK.
Cannot predict at present.
Comments: PRMOST BU CARDIOR CONTRES.
6.3 The potential impact of this procedure on the NHS, in terms of numbers of patients eligible for treatment and use of resources, is:
Major.
Moderate.
Minor.
Comments:
7 Other information
7.1 Is there any other information about this procedure that might assist NICE in assessing the possible need to investigate its use?

Shareholdings – any shareholding, or other beneficial interest, in shares of the healthcare industry		YES
Expenses and hospitality – any expenses provided by a healthcare industry company beyond those reasonably required for accommodation, meals and travel to attend meetings and conferences		YES
Investments – any funds that include investments in the healthcare industry		YES NO
Do you have a personal non-pecuniary interest – for example have you made a public statement about the topic or do you hold an office in a professional organisation or advocacy group with a direct interest in the		YES
topic?		NO
Do you have a non-personal interest? The main examples are as follows:		
Fellowships endowed by the healthcare industry	V	YES
	•	NO
Support by the healthcare industry or NICE that benefits his/her position or department, eg grants, sponsorship of posts		YES
was the first and the first of		NO
If you have answered YES to any of the above statements, please des nature of the conflict(s) below.	cribe しん	Aras Liferon
Comments: 2 90 MORADRING POSS MADM COS	3350	F O
Thank you very much for your help,	PO4	GRO
Dr Tom Clutton-Brock, Interventional Professor Carole Longson, De Contre for Health Technology Evaluation.		tor,
Jan 2016		

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