## National Institute for Health and Care Excellence IP1544 / Aortic valve reconstruction with processed bovine pericardium

IPAC date: 14 December 2017

Com.	Consultee name and	Sec. no.	Comments	Response
no.	organisation			Please respond to all comments
1	Consultee 1	NA		Thank you for your comment.
NHS Professional	NHS Professional		) and by used for the procedure described in this consultation/revision.	The consultee supports the use of autologous pericardium using the Ozaki technique instead of aortic valve reconstruction using processed bovine pericardium.
			The NICE document is reviewing the use of bovine pericardium for aortic valve reconstruction.	The UK regulation on the use of glutaraldehyde for intraoperative tissue processing may limit the
		It is not assessing the Ozaki procedure although the technique is in "theory― described. It is also not assessing the safety of as no reference is made to the product itself.	use of the Ozaki technique with autologous pericardium.  The Committee has recognized the potential	
			The literature used doesn't suggest assessment of aortic valve repair in children.	value of aortic valve reconstruction and has decided to review the evidence on the technique
			• For Ozaki procedure the long-term outcome data and literature is known in adults.	using processed bovine pericardium, which is approved and extensively used in cardiothoracic surgery in the UK.  The IP programme issues guidance on procedures rather than individual devices.
			• In some countries that can't use glutaraldehyde treated pericardium various supplements as patch are used .	
			• There are no big clinical review studies describing the Ozaki procedure outcomes in children ( the control of the same also in adults)	
			For aortic valve repair in children the situation is very different to adults.	
			There are limitations to the use of prosthetic valve replacement.	
			The options are therefore various repair techniques, homograft or Ross procedure. And recently the Ozaki procedure.	

		The Ross procedure offers an excellent immediate result but with a life long risk for autograft failure and homograft replacement. Two valves are therefore placed at risk.	
2	Consultee 2 Company	"Comments from has stated above, the review from NICE has stated that this procedure is to use Bovine pericardium which is clearly different from the Ozaki procedure which is supposed to use Autologous Pericardium, as noted in the review from NICE.  Therefore, as noted in the literature above, we have stated the data for the Ozaki procedure which has been implemented for 10 years with great outcomes.  We believe that NICE should support the Ozaki procedure which has more back-up data and more concrete outcomes other than the usage of bovine pericardium.  The below paper is not an article directly related to the Ozaki technique, but related to the long-term outcome of autologous	Thank you for your comment.  The consultee supports the use of autologous pericardium using the Ozaki technique instead of aortic valve reconstruction using processed bovine pericardium.  The UK regulation on the use of glutaraldehyde for intraoperative tissue processing may limit the use of the Ozaki technique with autologous pericardium  The Committee has recognized the potential value of aortic valve reconstruction and has
		pericardium with the similar procedure. This will be able to shed light on those  https://www.ncbi.nlm.nih.gov/pubmed/16039963	decided to review the evidence on the technique using processed bovine pericardium, which is approved and extensively used in cardiothoracic surgery in the UK.  The IP programme issues guidance on procedures rather than individual devices.  This study is included in the main extraction table.
3	Consultee 2 Company	"For aortic valve repair / reconstruction the following literature should be used:  https://doi.org/10.1016/j.jtcvs.2012.11.033	Thank you for your comment  Study reports the use of glutaraldehyde treated autologous pericardium in paediatric aortic valve repair.
		https://doi.org/10.1093/ejcts/ezw259 http://dx.doi.org/10.1136/hrt.2009.190520	Study reports outcomes of several aortic valve repair surgeries rather that a complete reconstruction of the aortic valve.

		Clinical review, does not report on the outcomes
		of interest for aortic valve reconstruction using
	https://doi.org/10.1016/j.athoracsur.2015.05.002	processed bovine pericardium.
		Paper reports the echocardiographic findings for
		different aortic valve repair techniques. Does not
		report on the outcomes of interest for aortic valve reconstruction using processed bovine
		pericardium.
	https://doi.org/10.1093/ejcts/ezx172	
		Study reports the use of glutaraldehyde treated autologous pericardium in paediatric aortic valve
	For the following literature should be used:	repair.
	For the following literature should be used:  https://doi.org/10.1586/17434440.2015.985651	
		Does not report on the outcomes of interest for aortic valve reconstruction using processed
		bovine pericardium.
	https://doi.org/10.1016/j.jtcvs.2014.08.002	
		Report on the use of processed bovine pericardium in animal recipient.
	For the Ozaki procedure following literature should be used: https://www.ncbi.nlm.nih.gov/pubmed/23228404	
	https://www.ncbi.nlm.nih.gov/pubmed/24585287	The suggested publications report results of the Ozaki technique using autologous pericardium.
		Ozaki technique using autologous pericardium.
	https://www.ncbi.nlm.nih.gov/pubmed/24954174	
	https://www.ncbi.nlm.nih.gov/pubmed/23427312	
	https://www.ncbi.nlm.nih.gov/pubmed/22572232	
	https://www.ncbi.nlm.nih.gov/pubmed/25818901	
	https://www.ncbi.nlm.nih.gov/pubmed/27060046	
	https://www.ncbi.nlm.nih.gov/pubmed/16039963	

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nd to promote understanding of how recommendations are developed. The comments are published as a record of the submissions that NICE has received, and are not endorsed by NICE, its officers or advisory committees."