

URGENT FIELD SAFETY NOTICE

FSCA identifier:	HV-SAL-2018-001		
Affected Product:	Perceval Sutureless Heart Valve		
Type of action:	Advice given by the Manufacturer regarding the use of the device		
Date:	June 12, 2018		
Attention:	Implanting Surgeons		
Reason:	Possibility of stent folding due to Perceval valve oversizing		

Dear Doctor:

You are receiving this letter because according to our records, you are an implanter of Perceval Sutureless Aortic Heart Valve¹:

Item #	REF	Product Description
ICV1208	PVS21	Perceval Sutureless Aortic Heart Valve size S
ICV1209	PVS23	Perceval Sutureless Aortic Heart Valve size M
ICV1210	PVS25	Perceval Sutureless Aortic Heart Valve size L
ICV1211	PVS27	Perceval Sutureless Aortic Heart Valve size XL

¹ Perceval is a sutureless bioprosthetic valve indicated for use in adult patients who are diagnosed with aortic valve stenosis or stenoinsufficiency. The prosthesis consists of a bovine pericardium tissue component and a flexible, self-expandable Nitinol stent, which has the dual role of supporting the valve and fixing it in place without the need for sutures. Prior to implantation, the prosthesis' diameter is reduced to a suitable size to load it onto the holder. The valve is then positioned and released in the aortic root, where the stent design and its ability to apply a radial force to the annulus allows stable anchoring of the device.



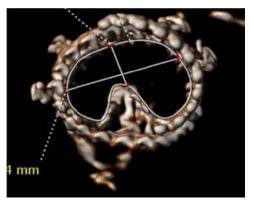
Description of the issue

LivaNova² has recently become aware, through its post-market surveillance processes, of more than anticipated cases of valve insufficiency caused by "stent folding". Stent folding is defined as inward deformation of the stent at the annulus level.

The main root cause identified for stent folding is valve oversizing, associated with other factors such as:

- extremely eccentric aortic annulus;
- highly calcified portion of the annulus, or uneven decalcification (concentrated bulky calcium protrusion);
- aortic root anatomy deviating from the tri-symmetrical physiological geometry (bicuspid valve, or absence of one of the Valsalva sinuses);
- severe hypertrophic septum.

Moreover, patients with an implanted Perceval valve may experience valve folding (see picture) when emergency cardiovascular procedures, such as cardiopulmonary resuscitation (CPR), are administered post-implant.



By means of this voluntary action, LivaNova will be providing clarifications about this potential adverse event related to the Perceval valve and recommendations to prevent its occurrence.

Actions to be taken following this communication

We would like to follow this letter with an *in-person* meeting with you and all the physicians implanting Perceval in your hospital to discuss key procedural steps to be followed to reduce the occurrence of stent folding, and to provide further information for an early detection of the phenomenon.

You will be contacted by your LivaNova representative to discuss the logistics of scheduling a meeting, and in the meantime, we kindly ask you to facilitate such meeting.

² LivaNova PLC is a U.K. holding company with a number of wholly-owned subsidiaries. In this document, we refer to all entities using the brand name LivaNova.



In the meantime, LivaNova reminds you of the importance of performing an intraoperative echographic evaluation after Perceval implant to confirm correct positioning and verify valve functionality under beating heart conditions.

If you have additional questions or urgent request for clarification, please contact the reference person reported below, your LivaNova representative.

Transmission of this Field Safety Notice

Please ensure that this Field Safety Notice is communicated to all personnel who need to be aware of it within your organization. In case you have transferred products to a third party, please communicate this information to them.

Please maintain awareness of this notice and resulting action for an appropriate period to ensure effectiveness of the corrective action.

A copy of this Field Safety Notice has been provided to the appropriate Regulatory Agencies, who are aware of these actions.

Contact reference person:

[Add local contact information: Name / organization, address, contact details]

LivaNova is committed to provide quality products and services to its customers and we rely on your collaboration. If you have any questions regarding this notice, please contact your local LivaNova representative listed above.

Sincerely,

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Joan Ceasar Director, Customer Quality and Safety