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**FSN Ref:** 2026-FSN-0000129

**FSCA Ref:** 2026-FA-0000129

**Date:** 2026-03-31

**URGENT Field Safety Notice**  
**Risk of Leakage when using Purge Cassette Gen 1**

**For Attention of\*:** Users of Impella Purge Cassette Generation (Gen) 1.

**Contact details of local representative (name, e-mail, telephone, address etc.) \***

This could be a distributor or local branch of the manufacturer. To be added at the appropriate stage in the different local languages.



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<b>1. Information on Affected Devices*</b>	
1.	1. Device Type(s)* Purge Cassette
1.	2. Commercial name(s)* Impella Purge Cassette
1.	3. Primary clinical purpose of device(s)* The purpose of the purge system is to continuously drive fluid (typically 5% glucose solution in water with heparin or sodium bicarbonate) through the motor to lubricate the bearing and prevent the ingress of blood into the motor. When the purge cassette is properly installed in the Automated Impella Controller, the Abiomed® logo is upright and facing you. The purge fluid is delivered by the purge cassette housed within the AIC through the pump exiting just below the impeller forming a pressure barrier to deflect the blood that the impeller is pulling through the cannula.
1.	4. Device Model/Catalogue/part number(s)* 0043-0002; 0043-0003; 0048-0014; 0046-0011; 0550-0002; 0048-0002 that includes Purge cassette Gen 1(0043-0001 and 0043-0009)
1.	5. Software version N/A
1.	6. Affected serial or lot number range All Purge cassette Gen 1 (0043-0001 and 0043-0009)
1.	7. Associated devices The Purge Cassette is an accessory to all Impella pump models and to the Automated Impella Controller (AIC). All Impella heart pump models are run by the Automated Impella Controller (AIC) which includes a consumable Purge Cassette that delivers rinsing fluid to the Impella catheter. The purge fluid flows from the Purge Cassette through the catheter to the microaxial blood pump to prevent blood from entering the pump's motor.
<b>2. Reason for Field Safety Corrective Action (FSCA)*</b>	
2.	1. Description of the product problem* Abiomed, Inc. has initiated a device recall (removal) of Purge Cassette (Gen 1) due to the availability of an updated Purge Cassette (Gen 2) with lower risk of purge leaks. The purge cassette delivers rinsing fluid to the Impella catheter. The purge fluid flows from the purge cassette through the catheter to the microaxial blood pump to prevent blood from entering the motor.  Abiomed implemented an updated design in the Purge Cassette (Gen 2) to reduce the risk of purge leaks by redesigning internal components. A review of global complaints from January 1, 2020, to December 31, 2025, found Purge Cassette leakage in 0.31% of cases using Gen 1 and 0.02% of cases using Gen 2 which supports the effectiveness of this redesign.



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If a Purge Cassette leak were to occur, the user would see a "Purge Pressure Low" alarm on the AIC; see example of alarm below:

<b>Purge Pressure Low</b>	<ol style="list-style-type: none"><li>1. Check the purge system tubing for leaks.</li><li>2. Increase concentration of dextrose in the purge solution.</li><li>3. Press the Purge Menu soft key then select Change Cassette &amp; Bag.</li></ol>
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A purge leak may lead to low purge pressure if it goes unaddressed. This can lead to biomaterial ingress, which may lead to a pump stop. A pump stop may result in a loss of hemodynamic support and lead to an outcome of death.

A review of global complaints from January 1, 2020, to December 31, 2025, found Purge Cassette leakage in 0.31% of cases using Gen 1 and 0.02% of cases using Gen 2. The complaints review determined that for cases using Gen 1, there have been no patient deaths attributed to this issue; however, in four (4) cases, the failure resulted in a pump stop and / or in the user choosing to exchange the pump or consoles, which is considered medical intervention. The complaints review also determined there have been no patient deaths or serious injuries attributed to this issue for cases using Gen 2.

**ACTIONS REQUESTED FROM THE CUSTOMERS FOR IMPELLA 5.5 (0550-0002), IMPELLA CP (0048-0014), IMPELLA RP (0046-0011), AND/OR PURGE CASSETTES (SINGLE PACK (0043-0002) and 5-PACK (0043-0003)) THAT ARE NOT PART OF A PUMP SET:**

The following actions are affecting customers that use Impella 5.5 and Impella CP and Impella RP heart pumps.

- Review all Purge Cassettes within inventory and included in Impella 5.5, Impella CP, and Impella RP Kits. If any Purge Cassettes identified as impacted per **Section - Instructions to Locate affected Purge Cassette:** If required, open the pump set, remove the affected purge cassette, set aside and quarantine.
- Review the attached FSN, complete all fields, (indicate the number of purge cassettes in your facility) sign, and return the attached Customer Reply Form to [DL-EUFSCA@its.ini.com](mailto:DL-EUFSCA@its.ini.com)

Commented [MF1]: Only required for cassettes in pump sets - want to make sure they also look at the single cassettes.

**Use of a Purge Cassette is always required when using an Impella Pump. In the event that a Gen 2 Purge Cassette is not available to you and the use of a Gen 1 Purge Cassette is absolutely necessary, you may continue to use it. However, ensure increased monitoring of the Purge System and refer to the IFU if a "Purge Pressure Low" alarm is triggered.**

Forward this notice to anyone in your facility that needs to be informed (i.e., those who manage, transport, store, stock, or use the subject products).

If any of the subject products have been forwarded to another facility, contact that facility and provide them with this notice.

Post a copy of this notice in a visible area for awareness.



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Once the completed FSN is received by Abiomed, **Abiomed will coordinate exchange of all identified Purge Cassettes Gen 1 for Purge Cassette Gen 2 (1000185).**

AFTER receiving the Purge Cassettes Gen 2 (1000185) as replacement, **destroy\* the Purge Cassettes Gen 1**, confirm the **total number of purge cassettes and the Lot numbers** of the destroyed purge cassettes in the **Confirmation of Destruction Form** and send the **Confirmation of Destruction Form** to [DL-EUFSCA@its.inj.com](mailto:DL-EUFSCA@its.inj.com).

**\*Note: If you require any information regarding destruction of the Gen 1 purge cassette, contact us at [DL-EUFSCA@its.inj.com](mailto:DL-EUFSCA@its.inj.com).**

**ADDITIONAL ACTIONS REQUESTED FROM CUSTOMERS FOR IMPELLA RP:**

The following actions are affecting customers that use Impella RP heart pumps (0046-0011)

Until Regulatory Approval/Registration for Gen 2 Purge Cassette is granted for Impella RP, and registration is completed:

- When you order Impella RP pump set (0046-0011), you will receive separate Purge Cassette Gen 2 (1000185) in addition to the Impella RP pump set containing a Purge Cassette Gen 1 (0043-0009).
- Open the pump set, identify the Purge Cassette Gen 1 in the set per **Section - Instructions to Locate affected Purge Cassette** and replace it with the Purge Cassette Gen 2.
- **Destroy the Purge Cassette Gen 1 and provide evidence of destruction for each Purge Cassette Gen 1 through sending the completed Confirmation of Destruction Form to [DL-EUFSCA@its.inj.com](mailto:DL-EUFSCA@its.inj.com).**

This practice will be discontinued, once Regulatory Approval/Registration for Gen 2 Purge Cassette is granted for Impella RP pump set, our internal operations preparations and user trainings are completed.

Commented [MF2]: •Can we summarize? Destroy the Purge Cassette Gen 1 and provide evidence of destruction for each Purge Cassette Gen 1 through sending the completed Confirmation of Destruction Form to [DL-EUFSCA@its.inj.com](mailto:DL-EUFSCA@its.inj.com).

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**Section - Instructions to Locate affected Purge Cassette:**

- For Impella 5.5 pump set, not all pump sets are impacted. **Impella 5.5 pump set (1000482) is not impacted.**
- For Impella 5.5 pump set (0550-0002) and Impella RP (0046-0011), open the pump set and look for the purge cassette with code (0043-0009) as shown in the image below:



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- For Impella CP pump set (0048-0014), not all pump sets are impacted. To identify the impacted pump sets please follow the two steps as below:

Step 1: Check if REF 0048-0014 is in the label

Step 2: Check Internal number.

- ✓ :1000851: No action required
- ✗ : 0048-0014: open the Pump-Set, remove the Gen 1 Purge Cassette (0043-0009), and follow the instructions in **ACTIONS TO BE TAKEN BY CUSTOMER/USER:**

Once the impacted pump sets are identified, open and look for the purge cassette with code (0043-0009).

- For purge cassette single pack (0043-0002) and 5-pack (0043-0003), look for the code (0043-0001) as shown in the image below:

2. 2. Hazard giving rise to the FSCA\*



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	<p>A purge leak may lead to low purge pressure if it goes unaddressed. This can lead to biomaterial ingress, which may lead to a pump stop. A pump stop may result in a loss of hemodynamic support and lead to an outcome of death.</p> <p>A review of global complaints from January 1, 2020, to December 31, 2025, found Purge Cassette leakage in 0.31% of cases using Gen 1 and 0.02% of cases using Gen 2. The complaints review determined that for cases using Gen 1, there have been no patient deaths attributed to this issue; however, in four (4) cases, the failure resulted in a pump stop and / or in the user choosing to exchange the pump or consoles, which is considered medical intervention. The complaints review also determined there have been no patient deaths or serious injuries attributed to this issue for cases using Gen 2.</p>
2.	<p><b>3. Probability of problem arising</b></p> <p>In 2019, Abiomed identified an increase in customer complaints related to Low Purge Pressure due to Cartridge Cap Leak and Piston/Cylinder Failure. Abiomed implemented an updated design in the Purge Cassette (Gen 2) to reduce the risk of purge leaks by redesigning internal components.</p> <p>In May 2022, this new design of Purge Cassette (Gen 2) was released. Recent evaluation from retrospective reviews has identified that there is a significant decrease in reported complaints related to Low Purge Pressure attributed to purge leaks in Gen 2 (0.02%) compared to Gen 1 (0.31%) purge cassettes.</p> <p>The complaints review determined that for cases using Gen 1, there have been no patient deaths attributed to this issue; however, in four (4) cases, the failure resulted in a pump stop and / or in the user choosing to exchange the pump or consoles, which is considered medical intervention. The complaints review also determined there have been no patient deaths or serious injuries attributed to this issue for cases using Gen 2.</p>
2.	<p><b>4. Predicted risk to patient/users</b></p> <p>All identified harms and assessment of the probability of harm when the hazardous situation or Failure mode is present (assumes 100% probability of exposure).</p> <p>The hazardous situation described and assessed with the design change from Gen 1 to Gen 2 is a purge cassette leak. Exposure to the purge cassette leak in Gen 1 systems may result or can be reasonably expected (pH4) to result in a user inconvenience (S1). For patients in cardiogenic shock, there may be a period of inadequate hemodynamic support (S3) which is a reversible injury with medical intervention in rare circumstances (pH2). Only under rare circumstances (pH2), exposure to purge cassette leak may result in a pump stop with resultant loss of hemodynamic support (S5), which is considered a life-threatening injury with the potential for permanent impairment.</p> <p>Physicians must use clinical judgment to ensure appropriate clinical interventions occur to continue circulatory support. There have been deaths that have occurred in instances where there was a pump stop associated with a purge system failure and therefore the issue cannot be dissociated from the outcomes. For patients who are not in cardiogenic shock, the probabilities of these harms are exceedingly rare (pH1).</p>



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	<p>If the Gen 1 purge cassette were to be withdrawn from the field in regions where Gen 2 is not yet available, the immediate public health impact could be substantial. The Impella system provide mechanical circulatory support for patients with severe cardiac dysfunction and facilitates HRPPI procedures. The purge cassette is an essential accessory for its operation.</p> <p>A decision to allow product to remain in the field will not impact the overall benefit-risk for the product and its use within the context of the entire Impella ecosystem. A decision to remove Gen 1 product from the field that does not have access to Gen 2 would result in an impact to public health.</p>
2.	<p>5. Further information to help characterise the problem</p> <p>No further information</p>
2.	<p>6. Background on Issue</p> <p>This potential issue was detected during Abiomed internal retrospective review of complaints.</p>
2.	<p>7. Other information relevant to FSCA</p> <p>N/A</p>

<b>3. Type of Action to mitigate the risk*</b>			
3.	<p>1. Action To Be Taken by the User*</p> <p><input checked="" type="checkbox"/> Identify Device    <input checked="" type="checkbox"/> Quarantine Device    <input type="checkbox"/> Return Device    <input checked="" type="checkbox"/> Destroy Device</p> <p><input type="checkbox"/> On-site device modification / inspection</p> <p><input type="checkbox"/> Follow patient management recommendations.</p> <p><input type="checkbox"/> Take note of amendment / reinforcement of Instructions for Use (IFU)</p> <p><input type="checkbox"/> Other                      <input type="checkbox"/> None</p>		
3.	<table border="1" style="width: 100%;"> <tr> <td style="width: 30%;">2. By when the action should be completed?</td> <td>Identify the product as soon as it is practical and destroy the Gen 1 purge cassette after receiving the Gen 2 purge cassette.</td> </tr> </table>	2. By when the action should be completed?	Identify the product as soon as it is practical and destroy the Gen 1 purge cassette after receiving the Gen 2 purge cassette.
2. By when the action should be completed?	Identify the product as soon as it is practical and destroy the Gen 1 purge cassette after receiving the Gen 2 purge cassette.		
3.	<table border="1" style="width: 100%;"> <tr> <td style="width: 70%;">3. Is customer Reply Required? * (If yes, form attached specifying deadline for return)</td> <td style="text-align: center;">Yes</td> </tr> </table>	3. Is customer Reply Required? * (If yes, form attached specifying deadline for return)	Yes
3. Is customer Reply Required? * (If yes, form attached specifying deadline for return)	Yes		



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3.	<b>4. Action Being Taken by the Manufacturer*</b>  <input checked="" type="checkbox"/> Product Removal <input type="checkbox"/> On-site device modification/inspection <input type="checkbox"/> Software upgrade <input type="checkbox"/> IFU or labelling change <input type="checkbox"/> Other <input type="checkbox"/> None  The manufacturer requests the customer to destroy the purge cassette and provide evidence of destruction.	
3.	5. By when the action should be completed?	Time estimation: <ul style="list-style-type: none"> <li>• Destruction of the affected purge cassettes already in the market within 9 months of initial communication with customers.</li> <li>• Once Impella RP pump sets containing Purge Cassettes Gen 2 are available in the market, 5 months to close out the field action and confirm destruction of all Purge Cassettes Gen 1.</li> </ul>
3.	6. Is the FSN required to be communicated to the patient /lay user?	No

Commented [MF3]: Needs to be adjusted.



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4. General Information*		
4.	1. FSN Type*	New
4.	2. For updated FSN, reference number and date of previous FSN	N/A
4.	3. For Updated FSN, key new information as follows:	
4.	4. Further advice or information already expected in follow-up FSN? *	No
4.	5. If follow-up FSN expected, what is the further advice expected to relate to:	
	N/A	
4.	6. Anticipated timescale for follow-up FSN	N/A
4.	7. Manufacturer information (For contact details of local representative refer to page 1 of this FSN)	
	a. Company Name	Abiomed Inc.
	b. Address	22 Cherry Hill Drive, Danvers, MA, US
	c. Website address	www.heartrecovery.com
4.	8. The Competent (Regulatory) Authority of your country has been informed about this communication to customers.	
4.	9. List of attachments/appendices:	None
4.	10. Name	Malte Flory Commercial Quality Sr Manager EMEA

Transmission of this Field Safety Notice	
	<p>This notice needs to be passed on all those who need to be aware within your organisation or to any organisation where Impella pumps have been transferred.</p> <p>Please transfer this notice to other organisations on which this action has an impact. (As appropriate)</p> <p>Please maintain awareness on this notice and resulting action for an appropriate period to ensure effectiveness of the corrective action and keep this FSN together with the existing version of the product IFU.</p> <p>Please report all device-related incidents to the manufacturer, distributor or local representative, and the national Competent Authority if appropriate, as this provides important feedback. *</p>



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**URGENT Field Safety Notice (FSN)**  
**Risk of Leakage when using Purge Cassette Gen 1**

**Customer Reply Form**

<b>1. Field Safety Notice (FSN) information</b>	
FSN Reference number*	2026-FA-0000129
FSN Date*	2026-03-31
Product/ Device name*	Impella Purge Cassette
Product Code(s)	0043-0001, 0043-0009

<b>2. Customer Details</b>	
Account Number	
Healthcare Organisation Name*	
Organisation Address*	
Department/Unit	
Shipping address if different to above	
Contact Name*	
Title or Function	
Telephone number*	
Email*	

<b>3. Customer action undertaken on behalf of Healthcare Organisation</b>		
<input type="checkbox"/>	I confirm receipt of the Field Safety Notice and that I read and understood its content.	Complete or enter N/A
<input type="checkbox"/>	I confirm this is the number of units in our stock and will be destroyed as instructed*	Enter the number of units in your stock. State "0" or "NONE" if applicable.
<input type="checkbox"/>	I performed all actions requested by the FSN.	Complete or enter N/A
<input type="checkbox"/>	The information and required actions have been brought to the attention of all relevant users.	Complete or enter N/A
<input type="checkbox"/>	I have a query please contact me	Enter contact details if different from above and brief description of query
Print Name*		
Signature*		
Date*		

<b>4. Return acknowledgement to sender</b>	
Email	<a href="mailto:DL-EUFSCA@its.ini.com">DL-EUFSCA@its.ini.com</a>
Customer Helpline	+800 0 22 466 33
Postal Address	Abiomed Europe GmbH Att. of Malte Flory Neuenhofer Weg 3 52074 Aachen -Germany



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Web Portal	<a href="http://www.abiomed.eu">www.abiomed.eu</a> ; <a href="http://www.heartrecovery.eu">www.heartrecovery.eu</a>
Deadline for returning the customer reply form*	<b>Please return within 7 working days</b>

Mandatory fields are marked with \*

It is important that your organisation takes the actions detailed in the FSN and confirms that you have received the FSN.

Your organisation's reply is the evidence we need to monitor the progress of the corrective actions.



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**URGENT Field Safety Notice (FSN)**  
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**Confirmation of Destruction Form**

<b>5. Field Safety Notice (FSN) information</b>	
FSN Reference number*	2026-FA-0000129
FSN Date*	2026-03-31
Product/ Device name*	Impella Purge Cassette
Product Code(s)	0043-0001, 0043-0009

<b>6. Customer Details</b>	
Account Number	
Healthcare Organisation Name*	
Organisation Address*	
Department/Unit	
Shipping address if different to above	
Contact Name*	
Title or Function	
Telephone number*	
Email*	

<b>7. Customer action undertaken on behalf of Healthcare Organisation</b>		
<input type="checkbox"/>	I confirm destruction of the devices listed below*	
Lot Number (device count) *		Article Number*
		0043-0009
		0043-0001
<input type="checkbox"/>	I have a query please contact me	Enter contact details if different from above and brief description of query
Print Name*		



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Signature*
Date*

8. Return acknowledgement to sender	
Email	<a href="mailto:DL-EUFSCA@its.ini.com">DL-EUFSCA@its.ini.com</a>
Customer Helpline	+800 0 22 466 33
Postal Address	Abiomed Europe GmbH Att. of Malte Flory Neuenhofer Weg 3 52074 Aachen -Germany
Web Portal	<a href="http://www.abiomed.eu">www.abiomed.eu</a> ; <a href="http://www.heartrecovery.eu">www.heartrecovery.eu</a>
Deadline for returning the customer reply form*	<b>Please return within 7 working days</b>

Mandatory fields are marked with \*

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