### **Urgent Field Safety Notice**

### Microstream<sup>™</sup> Advance Neonatal-Infant and Adult-Pediatric Intubated CO<sub>2</sub> Filter Line, Microstream<sup>™</sup> Luer Adult-Pediatric Intubated CO<sub>2</sub> Filter Line and Microstream<sup>™</sup> Luer Adult-Pediatric Airway Adapter Sampling Line

Update to the Instructions for Use (IFU)

February 2025

Medtronic Reference FA1432

EU Manufacturer Single Registration Number (SRN): US-MF-000028763

Dear Risk Manager, Director of Respiratory Care, Director of Anesthesiology:

The purpose of this letter is to advise you that Medtronic is issuing an update to the Instructions for Use (IFU) for Microstream<sup>™</sup> Advance Neonatal-Infant and Adult-Pediatric Intubated CO<sub>2</sub> Filter Line, Microstream<sup>™</sup> Luer Adult-Pediatric Intubated CO<sub>2</sub> Filter Line and Microstream<sup>™</sup> Luer Adult-Pediatric Airway Adapter Sampling Line devices.

This labeling update follows receipt of ten (10) reports from customers stating that difficulty or inability in disconnecting the adapter from the patient's endotracheal tube to perform a procedure was encountered, resulting in a delay to treatment and/or unintended extubation. You are receiving this letter because Medtronic records indicate that these devices were shipped to your facility.

#### **Issue Description:**

Our investigation of the customer reports did not identify any anomaly or non-conformance with the product. All devices were manufactured to the specifications set for the product. The existing IFU includes a note instructing users to ensure that the airway adapter can be easily attached and detached from the breathing circuit/tubing during setup before proceeding.

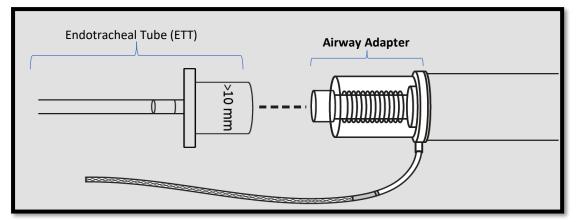


Diagram depicting airway adapter/endotracheal tube (ETT) attachment for Neonatal-Infant Intubated CO<sub>2</sub> Filter Line

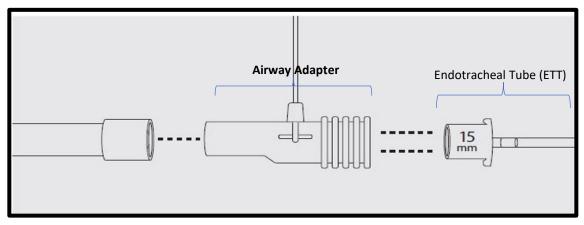


Diagram depicting airway adapter /endotracheal tube (ETT) attachment for Adult-Pediatric Intubated CO₂ Filter Line

#### **Risk to Health:**

The inability to, or difficulty in disconnecting the adapter from the endotracheal tube to perform a procedure such as suctioning or administration of airway medication such as surfactant can result in a delay to treatment and unintended extubation in order to perform the required procedures. The potential exists for respiratory failure, hypoxia, aspiration, and/or low oxygen saturation if a practitioner is unable to disconnect the adapter. The reported rate of occurrence for the inability to or difficulty in disconnecting the adapter is 0.00004%.

#### **Patient Management:**

For Microstream<sup>™</sup> Advance Neonatal-Infant and Adult Pediatric Intubated CO<sub>2</sub> Filter Line, Microstream<sup>™</sup> Luer Adult-Pediatric Intubated CO<sub>2</sub> Filter Line and Microstream<sup>™</sup> Luer Adult-Pediatric Airway Adapter Sampling Line devices that are currently in use on patients, continue to use these devices following the instructions provided in the IFU. As noted in the IFU, during setup, ensure that the airway adapter can be easily attached and detached from the breathing circuit/tubing before proceeding. The airway adapter can be connected to the breathing circuit/tubing in a variety of configurations. These include a direct connection to the endotracheal tube.

#### **Actions Medtronic is taking:**

• In September 2025, Medtronic is issuing an update to the Instructions for Use (IFU) for the devices listed on Attachment A, to include an Adverse Events section stating:

Adverse events associated with attaching and detaching the airway adapter from the breathing circuit are listed in descending order of severity: unintended extubation, respiratory failure, hypoxia, low oxygen saturation, aspiration/inhalation and delay to treatment. Any serious incident related to device use that may occur should be reported immediately to the manufacturer, the local competent authority, and any other regulators as required.

#### Actions you should take:

- Continue using the Microstream<sup>™</sup> Advance Neonatal-Infant and Adult Pediatric Intubated CO<sub>2</sub> Filter Line, Microstream<sup>™</sup> Luer Adult-Pediatric Intubated CO<sub>2</sub> Filter Line and Microstream<sup>™</sup> Luer Adult-Pediatric Airway Adapter Sampling Line devices.
- Pass and post this notice for all those who need to be aware within your organization or to any organization where the potentially affected product has been transferred or distributed.
- Please complete and return the enclosed Customer Acknowledgement Form to Medtronic even if you **do not** have unused inventory.

#### Additional Information:

Medtronic has notified the Competent Authority of your country of this action.

We are committed to patient safety and appreciate your prompt attention to this matter. If you have any questions regarding this communication, please contact your Medtronic Representative.

Sincerely,

Local / OU Manager

Enclosures: Attachment A: List of affected product codes Customer Acknowledgement Form

### Attachment A: List of Affected Products

CFN	GTIN	Product Description	Instructions For Use	Note
006324	20884521551692	MICROSTREAM FilterLine® H Set	006147 Rev N	*
	10884521551695	Infant/Neonatal CO <sub>2</sub> Sampling Line and Airway	FilterLine H Set &	
		Adapter for Humid Environments	VitaLine H Set	
007738	20884521216010	MICROSTREAM FilterLine® H Set Long	Infant/Neonatal	
		Infant/Neonatal CO2 Sampling Line and Airway		
		Adapter for Humid Environments		
010807	20884521551920	MICROSTREAM VitaLine™ H Set Infant/Neonatal	-	
	10884521551923	CO <sub>2</sub> Sampling Line and Airway Adapter for		
		Humid Environments		
007737	20884521551784	MICROSTREAM FilterLine® H Set Long Adult-	MQ04616 Rev N	*
		Pediatric CO <sub>2</sub> Sampling Line and Airway Adapter	FilterLine Sets &	
		for Humid Environments	VitaLine Sets	
007768	10884521554023	MICROSTREAM FilterLine® Set Long Adult-	Adult/Pediatric	
		Pediatric CO <sub>2</sub> Sampling Line and Airway Adapter		
010579	10884521551985	MICROSTREAM FilterLine® Set Adult-Pediatric	-	
		CO2 Sampling Line and Airway Adapter		
010580	10884521551992	MICROSTREAM FilterLine® H Set Adult-Pediatric	-	
	10884521184770	CO <sub>2</sub> Sampling Line and Airway Adapter for		
		Humid Environments		
010787	10884521554085	MICROSTREAM VitaLine™ H Set Adult-Pediatric	-	
	10884521552029	CO <sub>2</sub> Sampling Line and Airway Adapter for High		
		Ambient Humidity X25		
015016	10884521552296	MICROSTREAM FilterLine® Set Adult-Pediatric	-	
		CO <sub>2</sub> Sampling Line and Airway Adapter for		
		Humid Environments		
015021	10884521552340	MICROSTREAM FilterLine® Set Adult-Pediatric	-	
		CO <sub>2</sub> Sampling Line and Airway Adapter		
XS04620	30884521551989	MICROSTREAM FilterLine® Set Adult-Pediatric		
	20884521551982	CO <sub>2</sub> Sampling Line and Airway Adapter		
XS04624	30884521551996	MICROSTREAM FilterLine® H Set Adult-Pediatric		
	20884521551999	CO <sub>2</sub> Sampling Line and Airway Adapter for		
		Humid Environments		

CFN	GTIN	Product Description	Instructions For Use	Note
006324COV	10884521531574	CapnoLine <sup>™</sup> Neonatal-Infant Intubated Filter	10129497 Rev B	*
		Line with Microstream™ Technology H, Length	Filter Line Sets	
		7′ (2.0 m)	Adult/Pediatric &	
XS04620COV	10884521531529	CapnoLine <sup>™</sup> Adult-Pediatric Intubated Filter	Infant/Neonatal	
		Line with Microstream™ Technology Length 7′		
		(2.0 m)		
XS04624COV	10884521531536	CapnoLine <sup>™</sup> Adult-Pediatric Intubated Filter		
		Line with Microstream™ Technology H, Length		
		7′ (2.0 m)		
010989	20884521762159	Microstream™ Luer Adult-Pediatric Airway	PT00156356 Rev A	**
	20884521552033	Adapter	Microstream <sup>™</sup> Luer	
	10884521762152		Adult-Pediatric	
			Airway Adapter	
			Sampling Line	
010991	10884521554092	Omnistream™ CO₂ Sampling Line X25	011582 Rev E	*
			Omnistream™	
			Airway Adapter and	
			CO2 Sampling Line	
012495	10884521554122	OmniVentLine™ Set Adult-Pediatric CO2	012808 Rev E	*
		Sampling Line and Airway Adapter	OmniVentLine Set	
QMVAI	10884521762329	Microstream™ Advance Adult-Pediatric	PT00134333 Rev A	*
		Intubated CO <sub>2</sub> Filter Line 2m/6.5ft Short-term	Microstream Adv.	
		use: Procedural/Emergency	Adult-Pediatric	
QMVAIH	10884521762336	Microstream™ Advance Adult-Pediatric	Intubated	
		Intubated CO <sub>2</sub> Filter Line 2m/6.5ft Extended		
		Duration		
QMVIIH	10884521762374	Microstream™ Advance Neonatal-Infant	PT00134354 Rev A	*
		Intubated CO <sub>2</sub> Filter Line 2m/6.5ft Extended	Microstream Adv.	
		Duration	Infant Intubated	
MLAI	10884521762145	Microstream™ Luer Adult-Pediatric Intubated	PT00156355 Rev A	**
		CO <sub>2</sub> Sampling Line 2m/6.5ft Short-term use:	Microstream Luer	
		Procedural/Emergency	Intubated Adult	
			Pediatric	

MVAI	20884521761886	Microstream™ Advance Adult-Pediatric	PT00156254 Rev A	**
	10884521761889	Intubated CO <sub>2</sub> Filter Line 2m/6.5ft Short-term	Microstream	
		use: Procedural/Emergency	Advance Intubated	
MVAI100U	20884521761893	Microstream™ Advance Adult-Pediatric	Adult-Pediatric	
	10884521761896	Intubated CO <sub>2</sub> Filter Line 2m/6.5ft Short-term		
		use: Procedural/Emergency		
MVAIH	10884521761919	Microstream™ Advance Adult-Pediatric		
		Intubated CO <sub>2</sub> Filter Line 2m/6.5ft Extended		
		Duration		
MVAIH100U	10884521761926	Microstream™ Advance Adult-Pediatric		
		Intubated CO <sub>2</sub> Filter Line 2m/6.5ft Extended		
		Duration		
MVAIHH	10884521762008	Microstream™ Advance Adult-Pediatric		
		Intubated CO <sub>2</sub> Filter Line 2m/6.5ft High Humidity		
MVAIHL	10884521761933	Microstream™ Advance Adult-Pediatric		
		Intubated CO <sub>2</sub> Filter Line 4m/13ft Extended		
		Duration		
MVAIL	20884521761909	Microstream™ Advance Adult-Pediatric		
	10884521761902	Intubated CO <sub>2</sub> Filter Line 4m/13ft Short-term		
		use: Procedural/Emergency		
MVAMSK	10884521783997	Microstream™ Advance Air Military Sample Kit		
		CO <sub>2</sub> Oral-Nasal Filter Line with O2 Tubing		
		(MVAO) and Adult-Pediatric Intubated Filter		
		Line, High Humidity (MVAIHH) 2m/6.5ft		
MVASK	10884521783980	Microstream™ Advance Adult Sample Kit CO₂		
		Intubated Filter Line (MVAI) and $CO_2$ Oral-Nasal		
		Filter Line with O2 Connector (MVA) 2m/6.5ft		
ZMVAIH	20884521762258	Microstream™ Advance Adult-Pediatric		
		IntubatedCO2 Filter Line 2m/6.5ft Extended		
		Duration		
ZMVAIHH	20884521762265	Microstream™ Advance Adult-Pediatric		
		IntubatedCO2 Filter Line 2m/6.5ft High Humidity		
ZMVAI	20884521771762	Microstream™ Advance Adult-Pediatric		
		IntubatedCO2 Filter Line 2m/6.5ft Short-term		
		use: Procedural/Emergency		

MVIIH	20884521761985	Microstream™ Advance Neonatal-Infant	PT00156250 Rev A	**
	10884521761988	Intubated CO <sub>2</sub> Filter Line 2m/6.5ft Extended	Microstream	
		Duration	Advance Intubated	
MVIIHH	10884521762015	Microstream™ Advance Neonatal-Infant	Infant	
	20884521762012	Intubated CO <sub>2</sub> Filter Line 2m/6.5ft High Humidity		
MVIIHL	10884521761995	Microstream™ Advance Neonatal-Infant		
		Intubated CO <sub>2</sub> Filter Line 4m/13ft Extended		
		Duration		
ZMVIIH	10884521762275	Microstream™ Advance Neonatal-Infant		
		Intubated CO <sub>2</sub> Filter Line 2m/6.5ft Extended		
		Duration		

#### Notes:

- \* These products are no longer being manufactured. The IFU will not be updated.
- **\*\*** These IFUs are being updated to add the Adverse Events Section.