

Medtronic

Medtronic International, Ltd. (Singapore Branch)

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www.medtronic.com

URGENT: Medical Device Recall

NIM Vital™ Nerve Monitoring System

NIM Vital™ Nerve Monitoring System Stimulus Artifact & Software Update Fix Availability

06 March 2025 | 16:09 SGT

**Attention: Risk Management Director and O.R Materials Management
CC: The Chairman Medical Board and relevant Head of Departments**

Dear Risk Manager/Customer,

The purpose of this letter is to advise you that Medtronic is issuing a voluntary recall notice for the NIM Vital™ Nerve Monitoring System (Part Number: NIM4CM01, NIM4CM01RF, NIM4CPB1, NIM4CPB1RF, NIM4SWU143, NIM4SWU154, and NIM4SWU164), due to the potential for increased stimulus artifact with 1.5.4 and 1.6.4 software versions.

At the issuance of this letter, Medtronic has developed NIM™ Vital Nerve Monitoring System software version 1.7.5 to address this issue.

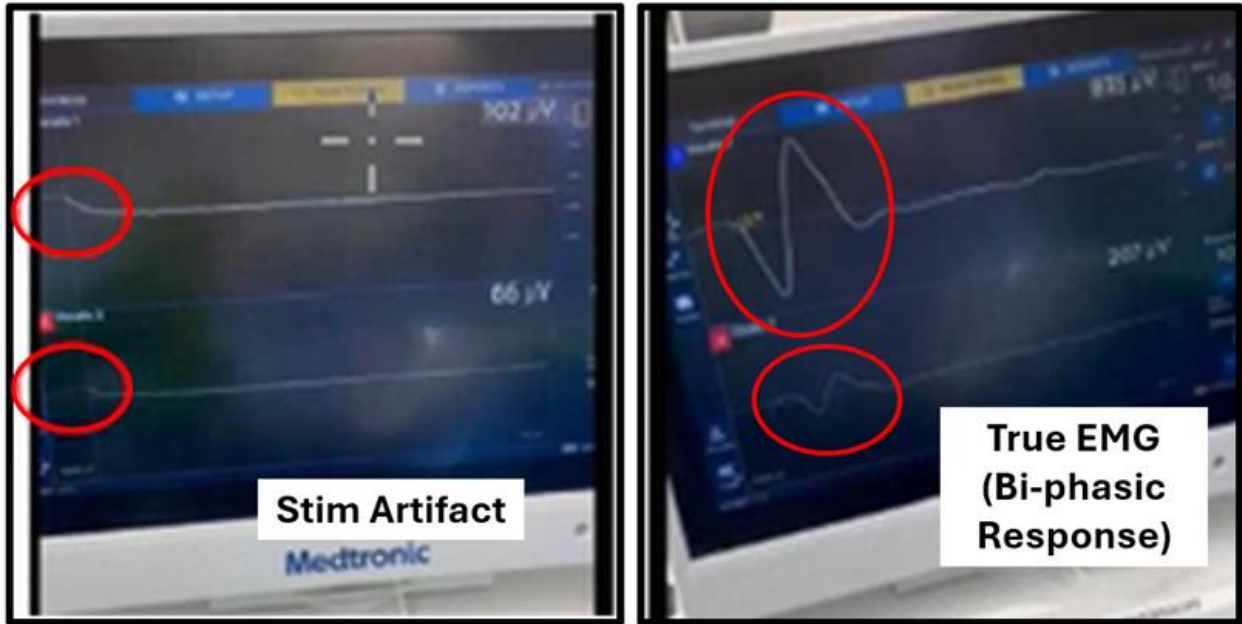
Medtronic records indicate that you may have one or more systems installed with an impacted version of the software.

The NIM Vital™ Nerve Monitoring System is intended for locating and monitoring, including stimulation, of cranial, spinal, peripheral motor and mixed motor-sensory nerves and registering electromyography (EMG) responses during surgery. The NIM Vital™ Nerve Monitoring System does not prevent the surgical severing of nerves. If monitoring is compromised, the surgical practitioner must rely on alternate methods, or surgical skills, experience, and anatomical knowledge to prevent damage to nerves. For more information, please refer to the Instructions for Use (IFU).

Issue Description:

This voluntary recall was initiated because customers reported experiencing increased stimulus artifact while using the NIM Vital™ Nerve Monitoring System. If this issue presents during a procedure, the system will sound an event tone even when stimulating non-neural tissue.

- Stimulus artifact is a monitoring term for an artifact created by stimulus voltage delivered to the patient, which is picked up as feedback either internally or externally to the monitoring equipment. It is normally small and does not impact monitoring but can, under certain conditions, be displayed and sounded on the monitor.
- The on-screen stimulus artifact, when it appears on the monitoring panel display, is seen as an event (above or below threshold) which starts directly after the stimulus on the left side of the screen and proceeds for a duration into the EMG waveform detection area. The level of the artifact is directly proportional to the stimulus delivery and cannot be EMG because nerve signals need time to propagate.



Potential Health Hazard(s):

Between June 26, 2024, and January 13, 2025, Medtronic received 18 reports of users potentially experiencing stimulus (stim) artifacts while using the NIM Vital Nerve Monitoring System with software versions 1.5.4 or 1.6.4. This issue may require troubleshooting as outlined in the IFU which would be expected to lead to a negligible delay to a procedure (less than 60 minutes) or unintended extubation. In rare circumstances, minor medical intervention (e.g extended anesthesia) may be required to attend to the patient during the delay.

Product Scope:

Product Name	Model/ Customer Facing Number(s) (CFN)	GTIN/UDI Number	Serial Number(s)
CONSOLE NIM4CM01 NIM 4.0	NIM4CM01	00763000002978, 00763000395896, 00763000401597, 00763000528577	All NIM Vital™ Nerve Monitoring System manufacture installed with
CONSOLE NIM4CM01RF NIM 4.0 REFURBISHED	NIM4CM01RF	00763000002992	

PATIENT INTERFACE NIM4CPB1 NIM 4.0	NIM4CPB1	0076300002985, 00763000401603, 00763000395902, 00763000528584	software version v1.6.4 or earlier
PATIENT INTFC NIM4CPB1RF NIM 4.0 REFURB	NIM4CPB1RF	0076300003005	
SOFTWARE NIM4SWU143 UPGRADE V1.4.3	NIM4SWU143	00763000709341 00763000869823	
SOFTWARE NIM4SWU154 UPGRADE V1.5.4	NIM4SWU154	00763000945398	
SOFTWARE NIM4SWU164 UPGRADE V1.6.4	NIM4SWU164	00763000974312	

Customer Actions:

- Identify affected products within your inventory. **The product is not required to be returned for this issue as Medtronic has deployed NIM Vital™ Nerve Monitoring System software version 1.7.5. which is readily available to fix this issue.**
- Your Medtronic representative will contact you to install the new software version 1.7.5 for correction of the impacted product in your possession.
- For patients who are currently being monitored with the NIM Vital Nerve Monitoring System (software version 1.6.4. or earlier), be aware of the possibility of increased stimulus artifact. Refer to the system instructions for use for instructions on how the stimulus artifact may be reduced or exacerbated through the adjustment of system settings including event threshold, stimulation current, and rejection period.
- Please complete and return the customer confirmation form enclosed with this letter acknowledging receipt of this information to your local Medtronic field representative even if you no longer have possession, custody or control over the affected product.
Note: Instructions on returning the acknowledgement form to Medtronic is located on the form itself.
- Please share this communication within your organization, with other organizations where impacted devices have been transferred, and any other associated organizations that may be impacted by this action. Maintain a copy of this letter for your records.
- Please discard any of the items below in your inventory.
 - a. SOFTWARE NIM4SWU143 UPGRADE v1.4.3
 - b. SOFTWARE NIM4SWU154 UPGRADE v1.5.4
 - c. SOFTWARE NIM4SWU164 UPGRADE v1.6.4

Additional Information:

Medtronic is communicating this information to the appropriate regulatory agency in your country.

We regret any inconvenience this may cause. 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 Field Representative.

Sincerely,

Signed by:

 Signer Name: Chloe Tan
Signing Reason: I approve this document
Signing Time: 06 March 2025 | 16:09 SGT
90D0724C9B1C402A99B286449A1644B8

Quality and Regulatory Affairs Director

Southeast Asia

Enclosure:

Customer Confirmation Form (*please complete and return upon receipt of this letter*)

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Customer Confirmation Form

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For completion by Medtronic Customers Only - Please complete all fields below and return all pages immediately

Customer Contact Details		Medtronic Contact Details	
Distributor/Hospital/Clinic/Patient name:		Name:	
		Contact:	
Address:		Email:	
Phone no:	Email:		

By signing this form, I confirm that I have read the Urgent Medical Device Recall Notification Letter, dated 06 March 2025 | 16:09 SGT from Medtronic regarding the NIM Vital™ Nerve Monitoring System and taken appropriate action.

Please complete all fields and sign the form as indicated below and hand or scan then email back to your local Medtronic representative.

Name (print): _____ Signature: _____ Stamp: _____ Date:

For questions, contact your Medtronic Field Representative.

Note: The addressee may continue to receive reminders of this notice until a response is received.