

# URGENT MEDICAL DEVICE RECALL MiniMed™ Remote Controller (MMT-500 or MMT-503)

October 2021

**Dear Valued Patient:** 

You are receiving this letter because our records indicate that you may be using an optional MiniMed<sup>™</sup> remote controller (model number **MMT-500** or **MMT-503**) with a Medtronic MiniMed<sup>™</sup> 508 insulin pump or the MiniMed<sup>™</sup> Paradigm<sup>™</sup> family of insulin pumps.

Medtronic first communicated this recall to some users in August 2018 with instructions on how to disable the remote bolus feature, when not in use, to protect the security of your insulin pump when using an optional remote controller which may be susceptible to a cybersecurity risk. At that time, only users whose pumps were under warranty received the recall notification. Medtronic is now expanding the notification to all users who Medtronic believes may still be using the MiniMed™ 508 insulin pump or the MiniMed™ Paradigm™ family of insulin pumps and have purchased a remote controller.

Additionally, after further review, Medtronic has determined that the potential risks associated with the MiniMed<sup>TM</sup> remote controller outweigh the benefits of its continued use. Therefore, we are providing updated instructions to further address this risk.

You should immediately stop using and disconnect the remote controller, disable the remote feature, and return the remote controller to Medtronic. See the Appendix attached to this letter for detailed instructions.

Please review the following issue description and instructions for disconnecting and returning your remote controller.

#### **ISSUE DESCRIPTION**

The Medtronic remote controller, which uses a wireless radio frequency (RF) to communicate with your insulin pump, helps to program a set amount of insulin (or bolus) into your Medtronic pump without pressing any insulin pump buttons.

In May 2018, an external cybersecurity researcher identified a potential risk related to the MiniMed™ Paradigm™ family of insulin pumps and corresponding remote controller. The researcher's report stated that an unauthorized individual in close proximity of an insulin pump user could potentially copy the wireless RF signals from the user's remote controller (for example, while the user is in the process of delivering a remote bolus) and play those back later to deliver an additional bolus of insulin to the pump user. This could lead to potential health risks such as hypoglycemia if additional insulin is delivered beyond the user's insulin requirements, or hyperglycemia if insulin delivery is suspended through a similar play back. To date, Medtronic has not received reports of any injuries resulting from this issue.

### Medtronic

#### Several Factors Must Occur for Your Pump to be Vulnerable

- 1. The remote option for the pump would need to be enabled. This is not a factory-delivered default, and a user must choose this option.
- 2. The user's remote controller ID needs to be registered to the pump.
- 3. The Easy Bolus<sup>™</sup> option would need to be turned on and a bolus step size programmed in the pump.
- 4. An unauthorized individual would need to be in close proximity of the user, with necessary equipment to copy the RF signals activated, when the user is delivering a bolus using the remote controller.
- 5. The unauthorized individual would need to be in close proximity of the user to play back the RF signals to deliver a malicious remote bolus.
- 6. The user would need to ignore the pump alerts, which indicates that a remote bolus is being delivered.

The following list shows the Medtronic remote controllers that are impacted by this issue. Medtronic is no longer manufacturing or distributing these remote controllers.

Remote controller	Model Number Location	Serial Numbers
MiniMed  Min	The model # is behind the remote under the barcode	All
MiniMed <sup>TM</sup> remote controller MMT-503	The model # is behind the remote under the barcode	All

#### **ACTIONS REQUIRED:**

#### 1. STOP USING AND DISCONNECT THE REMOTE CONTROLLER

 To disconnect the remote controller from your insulin pump, you must disable the radio frequency function and delete all remote controller IDs that are programmed



into your pump. Follow the instructions in the appendix attached to this letter. The steps to disconnect the remote controller will vary by insulin pump model.

#### 2. ACKNOWLEDGE NOTIFICATION

 Visit medtronicdiabetes.com/RemoteControl, call Medtronic 24-Hour Technical Support at 1-800-378-2292, or complete and return the enclosed Customer Confirmation Form to acknowledge that you have read and understood this notification and to indicate your decision regarding returning the remote controller.

#### 3. RETURN PRODUCT

 Prepaid return packaging will be provided for you to return the remote controller to Medtronic.

Until you disable your remote controller and disconnect it from your pump, refer to the safety precautions previously provided in the security bulletin at medtronic.com/security.

Please notify Medtronic of any adverse events or quality problems associated with your use of this product by calling Medtronic 24-Hour Technical Support at 1-800-378-2292.

Adverse reactions or quality problems experienced with the use of this product may also be reported to the FDA's MedWatch Adverse Event Reporting program either online, by regular mail or by fax.

- Complete and submit the report online: www.fda.gov/medwatch/report.htm
- Regular Mail or Fax: Download form www.fda.gov/MedWatch/getforms.htm or call

1-800-332-1088 to request a reporting form, then complete and return to the address on the pre-addressed form, or submit by fax to 1-800-FDA-0178.

At Medtronic, patient safety is our top priority, and we are committed to delivering safe and effective therapies. Thank you in advance for your patience as we work to support all our customers as quickly as possible. We appreciate your time and attention in reading this important notification.

Sincerely,

Chirag Tilara

Vice President, Quality Medtronic Diabetes Robert a. Vigersly, M.D.

**Robert Vigersky, M.D.** Chief Medical Officer Medtronic Diabetes Medtronic

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#### **APPENDIX**

#### INSTRUCTIONS TO DISCONNECT THE REMOTE CONTROLLER

The steps to disconnect the remote controller will vary by insulin pump model. Follow the instructions below according to which pump model you have. You can find your model number beginning with MMT- on your pump label located at the bottom or end of your pump.

## MiniMed<sup>™</sup> Paradigm<sup>™</sup> MMT-523/723, MMT-523K/723K, MMT-551/751, MMT-554/754 Insulin Pumps

#### Delete remote IDs programmed into your pump:

- 1. Go to the REMOTE OPTION screen: Main > Utilities > Connect Devices > Remotes
- 2. Select **On**, then press **ACT**.
- 3. Select **Delete ID**, then press **ACT**.
- 4. Select the **Remote ID** to be deleted, then press **ACT**.
- 5. If more than one remote ID is programmed, repeat steps 3 and 4 until all remote IDs are deleted.

#### Disable the remote feature:

- 1. Go to the REMOTE OPTION screen: Main > Utilities > Connect Devices > Remotes
- 2. Select **Off**, then press **ACT**.

## MiniMed<sup>™</sup> Paradigm<sup>™</sup> MMT-522/722, MMT-522K/722K, MMT-515/715, MMT-512/712 Insulin Pumps

#### Delete remote IDs programmed into your pump:

- 1. Go to the REMOTE OPTION screen: Main > Utilities > Remote Options
- 2. Select **On**, then press **ACT**.
- 3. Select **Delete ID**, then press **ACT**.
- 4. Select the remote ID to be deleted, then press **ACT**.
- 5. If more than one remote ID is programmed, repeat steps 3 and 4 until all remote IDs are deleted.

#### Disable remote feature:

- 1. Go to the REMOTE OPTION screen: Main > Utilities > Remote Options
- 2. Select **Off**, then press **ACT**.

#### MiniMed™ Paradigm™ MMT-511 Insulin Pump

#### Delete remote IDs programmed into your pump:

- 1. Go to the RF OPTIONS screen: Main > Utilities > RF Options
- 2. Select **On**, then press **ACT**.
- 3. Select **Delete ID**, then press **ACT**.
- 4. Select the remote ID to be deleted, then press ACT.
- 5. If more than one remote ID is programmed, repeat steps 3 and 4 until all remote IDs are deleted.

#### Disable remote feature:

- 1. Go to the RF OPTIONS screen: Main > Utilities > RF Options
- 2. Select Off, then press ACT.



#### MiniMed™ MMT-508 Insulin Pump

#### Delete remote IDs programmed into your pump:

- 1. Start at Main/Time of Day screen.
- 2. Press Sel until you see Set Up II, then press ACT.
- 3. Press Sel until you see RF DEV, then press ACT.
- 4. If not already done, scroll up/down using the up/down arrows to select **On**, then press **ACT**.
- 5. Scroll up/down using the up/down arrows until the screen displays **DELETE**, then press **ACT**.
- 6. Select the remote ID to be deleted, then press ACT.
- 7. Select **ACT** again to confirm the controller ID deletion.
- 8. If more than one remote ID is programmed, repeat steps 5 through 7 until all remote IDs are deleted.
- 9. Wait for the pump screen to time out and return to the Main/Time of Day screen.

#### Disable remote feature:

- 1. Start at Main/Time of Day screen.
- 2. Press Sel until you see Set Up II, then press ACT.
- 3. Press Sel until you see RF DEV, then press ACT.
- Scroll up/down using the up/down arrows until the screen displays OFF, then press ACT.