



Medtronic

20+  
years

of MRI  
research

1.2  
million

scanning  
scenarios\*†

10  
million

simulated  
patient scans†

## MRI Check-list

Broad MRI access.  
Simplified workflow.

InterStim™ SNM systems with SureScan™ technology give your patients expanded imaging possibilities.

# The Medtronic InterStim™ MRI access advantage

InterStim™ is the only portfolio of sacral neuromodulation systems offering unimpeded MRI access.

## Medtronic InterStim™ systems†,1

1.5T and 3T full-body MRI eligibility for low impedance



3T full-body MRI eligibility for out-of-range impedance



No impedance check required prior to full-body MRI



Digital display clearly confirms MRI mode activation



1.5T and 3T full-body scans allowed within first level controlled operating mode at or above cervical vertebrae C7



1.5T and 3T full-body scans with InterStim™ systems are supported in cases where a lead fragment is left behind provided conditions are met.†



**NEW**

1.5T head-only scans supported after End of Service for InterStim™ II InterStim™ X, and InterStim (eligible models)‡



**18.6%**  
of patients may have  
an impedance issue  
during the life of an  
implant<sup>2</sup>

## What is impedance?

Impedance is a measurement of the effective resistance of an electrical circuit. An out-of-range impedance can indicate a source of electrical abnormality with the lead or connections.

Low impedances can result from a short circuit (can occur from a crush injury or fluid leak). High impedance can indicate an open circuit (can occur from a lead fracture or loose connection).

† Under certain conditions; see approved labeling for details. Full-body eligibility of intact systems applies to patients with InterStim™ SureScan™ MRI Leads only. Lead fragment conditions include Medtronic lead models 3093, 3889, 978A1, 978B1.

‡ Under certain conditions; see approved labeling for details. Requires clinician confirmation that neurostimulator is fully depleted or at End-of-service (considered off). No patient control device is required.

# Patient safety and technician convenience for MRI scans

## InterStim™ systems with SureScan™ MRI technology

Please refer to the InterStim™ MRI Guidelines for comprehensive labeling on conducting an MRI scan at [medtronic.com/mri](https://www.medtronic.com/mri). If the patient is found to have a lead fragment left behind from a previous explant, they may be eligible for an MRI if the fragment meets certain conditions as described in the labeling guidelines.<sup>1</sup>

Patients must bring their programmer and communicator to the MRI appointment. Use the applicable My Therapy app to determine MRI eligibility information.

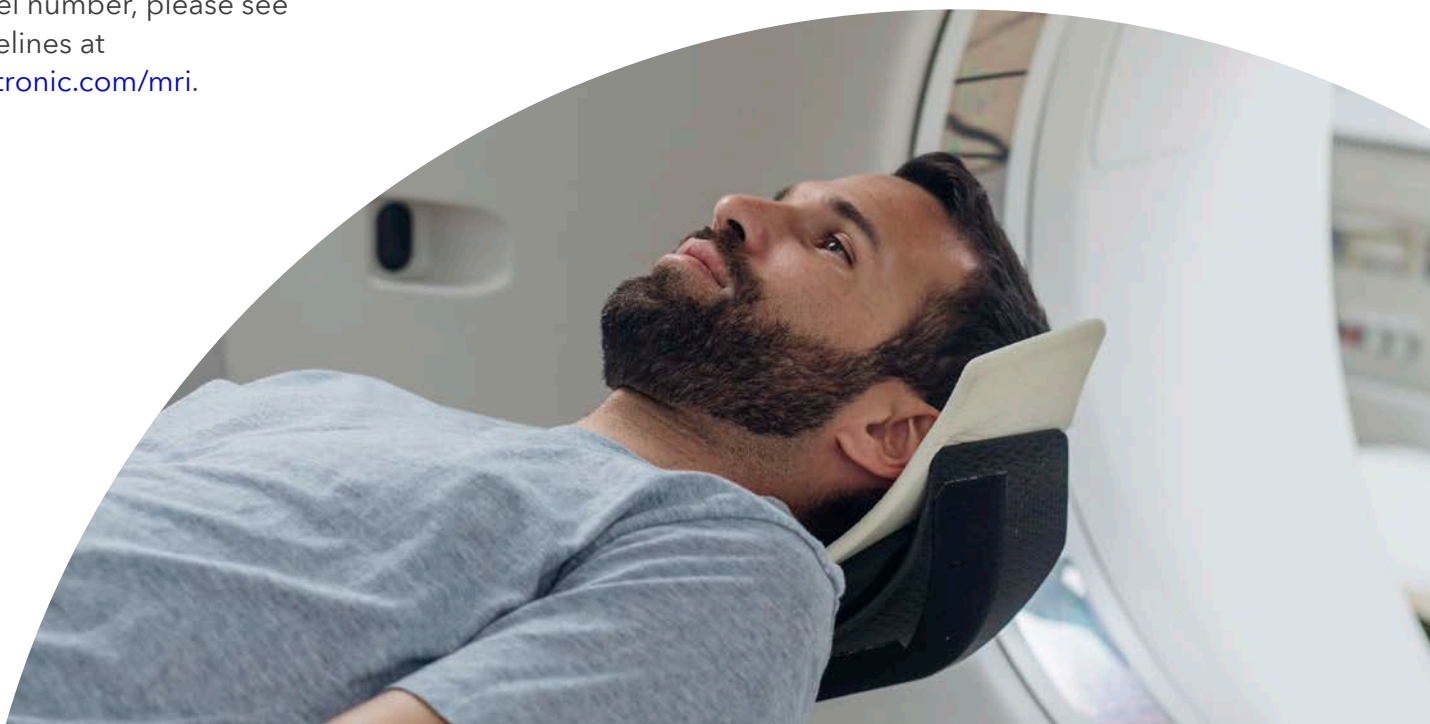


In cases where the implanted system is depleted or at the end of service, the patient may be eligible for a 1.5T head only scan even if they are not carrying a programmer. Please refer to the InterStim™ MRI guidelines for more details.

### These instructions<sup>1</sup> apply to:


- Model 97810 InterStim™ Micro neurostimulator with Model 978A1 SureScan™ MRI lead
- Model 3058 InterStim™ II neurostimulator with Model 978B1 SureScan™ MRI lead
- Model 97800 InterStim X™ neurostimulator with Model 978B1 SureScan™ MRI lead

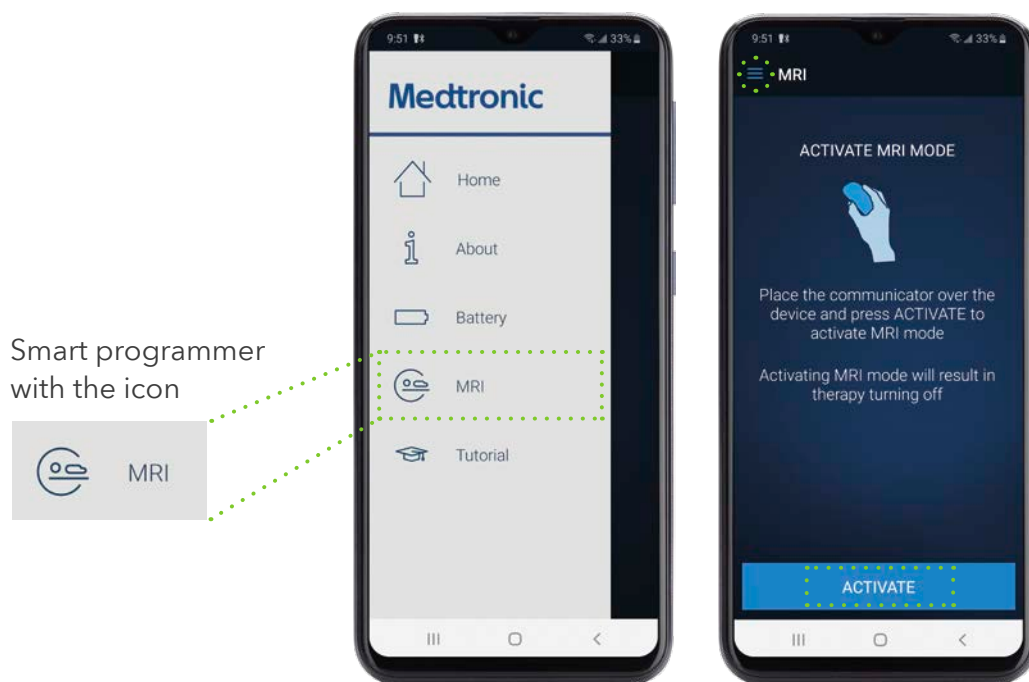
**Note:** If the patient has a different model number, please see guidelines at [medtronic.com/mri](https://www.medtronic.com/mri).



# MRI checklist<sup>1</sup>

## 1 Eligibility identification checklist - 1 step

1. Ask the patient to tap in the corner of the patient therapy app Home screen. 
  - Select **MRI ELIGIBILITY ICON** and from the MRI Eligibility screen, ask the patient to place the communicator over the device and tap **ACTIVATE** to activate MRI mode (following the indication on the screen).



MR Conditional Full Body Scan Eligible

### Placing the device in MRI mode turns therapy off

The text and all of the symbols above denote full-body MRI scan eligibility and indicate that the implanted system is in MRI mode.

## 2 MRI system checklist

There are no restrictions on MRI manufacturers - 7 steps

### 1. Check the Neurostimulator and lead model numbers on the smart programmer:

- Model 97810 InterStim™ Micro neurostimulator with Model 978A1 SureScan™ MRI lead.
- Model 97800 InterStim X™ neurostimulator with Model 978B1 SureScan™ MRI lead.

### Lead fragment eligibility\*:

- Total length of lead fragment  $\leq 6$  cm.
- Distance to other metallic components  $\geq 2$  cm.
- Lead fragment location is sacral.
- Lead fragment is eligible model: Medtronic tined leads 3093, 3889, 978A1, 978B1.

### 2. Check the Battery status (Model 97810 InterStim™ Micro neurostimulator only):

- Confirm the neurostimulator is charged to a minimum of 30% before scanning. Do not proceed if the neurostimulator is not sufficiently charged.

### 3. Check the MRI system types:

- 3-T horizontal cylindrical system.
- 1.5-T horizontal cylindrical system.

### 4. Check the MRI field specifications:

- Max Gradient Slew Rate  $\leq 200$  T/m/s per axis.
- Max Spatial Field Gradient: 20 T/m (2000 gauss/cm).

### 5. Check Scan Time limit:

- Maximum 30 minutes of continuous scan time is allowed, followed by a wait time of 5 minutes if this limit is reached.

### 6. Check patient body temperature:

- Confirm that the patient's body temperature is  $\leq 38$  °C (100 °F). Do not use blankets.

### 7. Check patient position:

- Position the patient in a prone or supine position in the MRI bore.

\* A lead fragment that meets all of the four criteria will not be considered an abandoned component.

# MRI checklist<sup>1</sup>

## 3 Scan preparation checklist - 1 step

### 1. Check the Scan Region and the RF exposure level:

- At or superior to the C7 vertebra (2):

#### Check the RF coil:

- RF Whole Body Transmit Coil (Integrated Transmit Coil) with Receive coil: any type.

RF exposure level with both 3-T & 1.5-T Machines:

- Normal Operating Mode.
- First Level Controlled Operating Mode.

- Detachable Head Transmit/Receive Volume Coil.

RF exposure level with both 3-T & 1.5-T Machines:

- Normal Operating Mode.
- First Level Controlled Operating Mode.

- Inferior to the C7 vertebra (3):

#### Check the RF coil:

- RF Whole Body Transmit Coil (Integrated Transmit Coil) with Receive coil: any type.

RF exposure level:

- 3-T Machines:  $B1+rms \leq 2.0 \mu T$  Values before scanning;  
For MRI scanners that do not report  $B1+rms$ , limit SAR to  $\leq 1.4 W/kg$ .
- 1.5-T Machines:  $B1+rms \leq 4.0 \mu T$  Values before scanning;  
For MRI scanners that do not report  $B1+rms$ , limit SAR to  $\leq 2.0 W/kg$ .

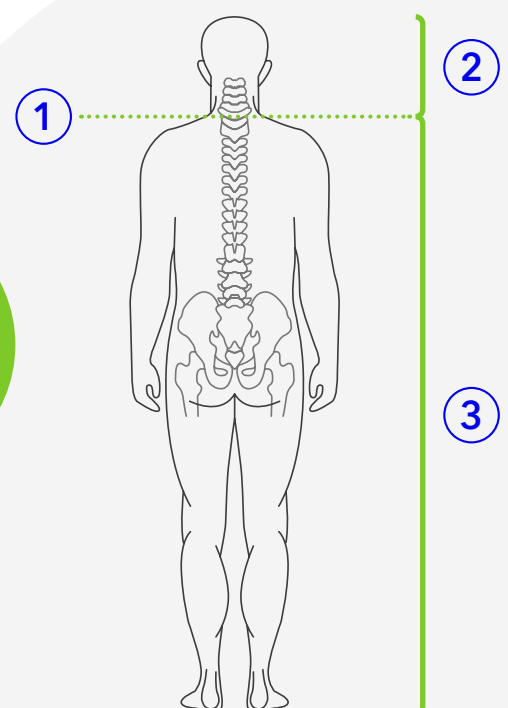
- Detachable Lower Extremity Transmit/Receive Volume Coil.

RF exposure level with both 3-T & 1.5-T Machines:

- Normal Operating Mode.
- First Level Controlled Operating Mode.

#### Please note:

**3-T RF Whole Body Transmit Coil** - MRI systems using two transmit channels (or fewer) may operate in Multichannel-2 (MC-2) or Circularly Polarized (CP) modes. Systems that use more than two transmit channels have not been studied, but such systems could be operated in CP or MC-2 modes, if available.

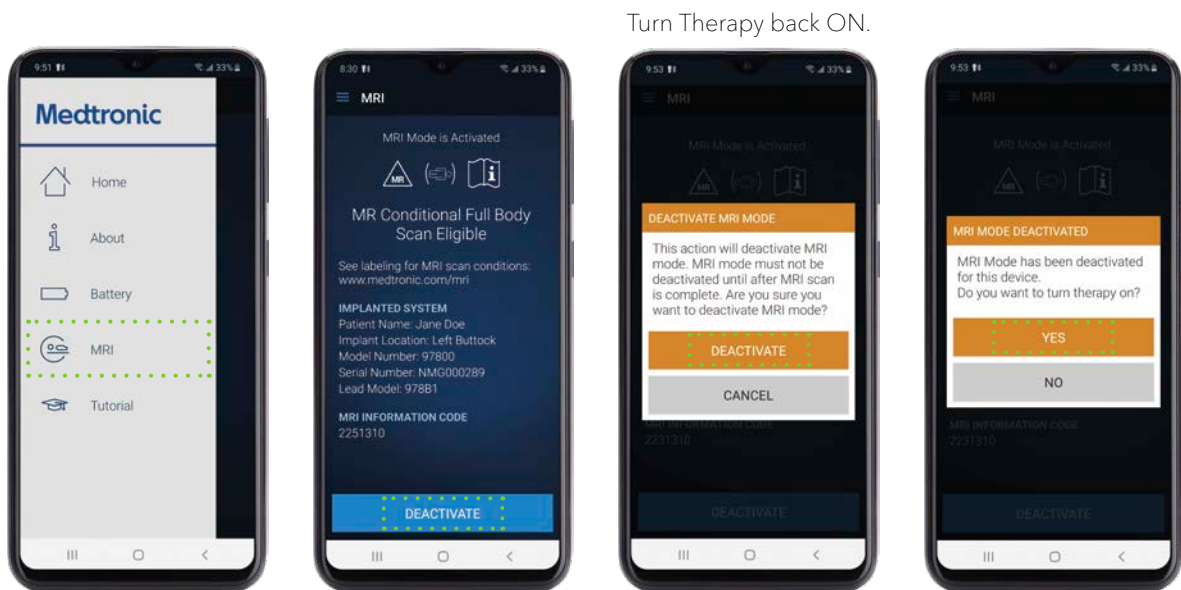


## 4 After the scan checklist

- 2 steps

### 1. Instruct the patient (outside of the scanner room) to turn the therapy back on.

- From the MRI Eligibility screen, ask the patient to place the communicator over the device and tap **DEACTIVATE** when prompted to deactivate MRI mode, then tap **YES** to return to previous therapy settings.



### 2. Verify that the patient has not experienced adverse effects as a result of the MRI.

Contact Medtronic to report any adverse effects.

#### Please note:

Instruct the patient to see the implanting physician or managing physician if any of the following instances are applicable:

- The patient has any questions about neurostimulator function.
- Assistance is required to return program parameters to pre-MRI scan settings.
- The patient control device displays a power-on-reset (POR) screen.

# Notes

A series of horizontal dotted lines for writing notes, spanning the width of the page.



[Find more information here](#)



\* Combination of body model, MRI manufacturer, implant location, lead length, and scan type.

† Medtronic data on file – result of animal studies combined with lab data, computational modeling, and statistical methods.

NDHF1559-186167v4.0 - INS Model 97810 and Lead Model 978A1 Design Verification Report - MRI RF Lead Heating, NDHF1567-186848v2.0 - Design Verification Report - MRI RF Lead Heating - INS Model 3058 and Lead Model 978B1.

## References

1. Medtronic MRI Guidelines for InterStim™ Systems, 2025-04-15 M980291A040 Rev A.
2. Fascelli M, Rueb J, Derisavifard S, et al. Mp31-06 Prevalence of Abnormal Impedance in Sacral Neuromodulation Device and Implication for Practice. J Urol 2020;203 (Supplement 4): e476-e477.3.

This material should not be considered the exclusive source of information, it does not replace or supersede information contained in the device manual(s).

Please note that the intended use of a product may vary depending on geographical approvals.

See the device manual(s) for detailed information regarding the intended use, the (implant) procedure, indications, contraindications, warnings, precautions, and potential adverse events.

For a MRI compatible device(s), consult the MRI information in the device manual(s) before performing a MRI.

If a device is eligible for eIFU usage, instructions for use can be found at Medtronic's website manuals.medtronic.com.

Manuals can be viewed using a current version of any major internet browser. For best results, use Adobe Acrobat® Reader with the browser.

Medtronic products placed on European markets bear the CE mark and the UKCA mark.

For any further information, contact your local Medtronic representative and/or consult Medtronic's websites.



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