



# INTEGRATED NEUROLOGY

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## SAFETY CONSIDERATIONS IN PATIENTS WITH MEDTRONIC DEEP BRAIN STIMULATION (DBS) DEVICES IMPLANTED AT NORTH SHORE PRIVATE HOSPITAL REQUIRING SUBSEQUENT:

### 1. MEDICAL AND DENTAL IMAGING (RADIOLOGIC INVESTIGATIONS)

This information is designed for Medtronic DBS patients to share with their treating doctor/ dentist team as part of the preparation for any future dental or surgical treatment.

***The information is directed to the treating dental/medical team***

#### **Key Contacts:**

- Hayley Need: 0484 126 870
- Leandro Street: 0436 957 151
- Medtronic Helpline: 1800 652 972

#### **X-rays and CT Scans:**

- No specific precautions are required in patients with DBS systems.
- System components may result in imaging artefact

#### **Ultrasound:**

- Special safety precautions are required
- Please contact Medtronic for further information

#### **MRI Scans:**

- MRI scans can be performed in some, but not all patients with Medtronic DBS systems.
- Special MRI precautions are required, and specific stimulation configurations (programmed by the treating neurologist) are required in instances where MRI can proceed.
- Generally, this needs to be arranged in advance and a Medtronic representative must be present at the time of the MRI.
- Due to the specific protocols required for MRI scans in DBS patients, MRIs are only available at certain radiology practices in Sydney. NSW Medtronic representatives can provide information about these centres and scanning protocols.
- For any questions about MRI safety precautions, please contact Medtronic (contacts above).

Yours sincerely,

**Dr Paul Silberstein (Provider # 2120948B)**

***Version: August 2026. Next review: August 2027***

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**Neurologists:** Dr Paul Silberstein | Dr Christina Liang | Dr Jason Gu  
Dr Michal Lubomski | Dr Natalie Palavra | Dr Hoang-Mai Dinh | Dr Christopher Coppin  
**Neurophysiologist:** Dr Joseph Nogajski | **Geriatrician:** Dr Giselle Bennett



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## SAFETY CONSIDERATIONS IN PATIENTS WITH MEDTRONIC DEEP BRAIN STIMULATION (DBS) DEVICES IMPLANTED AT NORTH SHORE PRIVATE HOSPITAL REQUIRING SUBSEQUENT:

### 2. DENTAL TREATMENT, INVASIVE MEDICAL PROCEDURES OR SURGERY

This information is designed for DBS patients to share with their treatment team as part of the preparation for any future dental or surgical treatment.

***The information is directed to the treating dental/medical team***

#### Key Contacts:

- Hayley Need: 0484 126 870
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#### 1. Diathermy Use

If diathermy (cautery/electrosurgery) or peripheral electrical stimulation is anticipated, it is recommended that the surgeon/dentist contact the device manufacturer for safety information prior to planned surgery.

- Before any procedure involving diathermy/cautery, the DBS stimulator must be turned off. This can be performed by the anaesthetist or surgeon using the patient's handheld programmer.
- To minimise discomfort, it is recommended that the stimulator be switched off after anaesthesia induction and turned on before waking patients from anaesthesia.
- Patients will need to take their personal programmer with them to hospital to facilitate the stimulator management recommended above.
- Patients may or may not be able to tolerate procedures under local anaesthesia or sedation only. Consultation with the patient's usual treating Neurologist is recommended prior to surgery if regional anaesthesia/ sedation **only** are considered.

#### 2. Prophylactic Antibiotics

Prophylactic antibiotics are recommended as per the cardiac valve guidelines. Please note this applies to routine dental checkups and cleaning.

#### 3. Muscle Relaxation

If muscle relaxation is required, consider using Sugammadex for reversal. This non-cholinergic agent may reduce the risk of postoperative confusion, particularly in patients with Parkinson's disease.

Yours sincerely,

**Dr Paul Silberstein (Provider # 2120948B)**

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