

# St George Sacral Neuromodulation Workshop



## Date

Saturday, 15 Nov 25



## Time

8:30 am – 4:30 pm



## Location

Medtronic Skills Centre  
Level 8, 11 Khartoum Rd Macquarie Park

## Faculty

- Dr Zhuoran Chen (urogynaecology)
- A/Prof Emmanuel Karantanis (urogynaecology)
- Dr Dominic Lee (urology)
- Prof David Lubowski (colorectal)
- Prof Bill Lynch (urology)
- A/Prof Kim-Chi Phan-Thien (colorectal)
- Gareth Queenin (Medtronic)

## Program:

### Common auditorium

- Welcome and introductions

A/Prof Kim-Chi  
Phan-Thien

8:45 am –  
9:00 am

### Room A: Colorectal

- Mechanism of action – bowel dysfunction
- Presenter: A/Prof Kim-Chi Phan-Thien
- Clinical results – bowel dysfunction
- Presenter: A/Prof Kim-Chi Phan-Thien
- Patient selection – bowel dysfunction
- Algorithms for patient management
- Presenter: Prof David Lubowski

### Room B: Urology & Urogynaecology

- Mechanism of action – bladder dysfunction
- Presenter: A/Prof Emmanuel Karantanis
- Clinical results – bladder dysfunction
- Presenter: A/Prof Emmanuel Karantanis
- Patient selection – bladder dysfunction
- Algorithms for patient management
- Presenter: Prof Bill Lynch

9:00 am –  
9:15 am

9:15 am –  
9:30 am

9:30 am –  
10:00 am

### Morning tea

10:00 am –  
10:20 am

### Common auditorium

#### Insertion of the full implant

- Insertion of the tined lead
- Insertion of the implanted pulse generator
- Insertion of the implanted pulse generator
- Postoperative complications and management

Dr Dominic Lee

10:20 am –  
10:40 am

### Common auditorium

#### Options for trialing sacral neuromodulation – basic evaluation with a peripheral nerve electrode

- Insertion of the peripheral nerve electrode
- Patient management of the basic evaluation with a peripheral nerve electrode
- Troubleshooting the peripheral nerve electrode
- Removing the peripheral nerve electrode

Prof David  
Lubowski

10:40 am –  
11:00 am

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| Common auditorium                                                                                                                                                                                                   | Options for trialing sacral neuromodulation – advanced evaluation with a tined lead (stage I)                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                             | Dr Zhuoran Chen           | 11:00 am – 11:20 am |
|                                                                                                                                                                                                                     | <ul style="list-style-type: none"><li>• Patient management during the advanced evaluation with a tined lead</li><li>• Troubleshooting the advanced trial</li><li>• Converting stage I into stage II</li><li>• Converting stage I into stage II</li></ul>                                                                                                                                   |                                                                                                                                                                                                             |                           |                     |
|                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                             |                           |                     |
| Practical A (Group 1):                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                            | Practical B (Group 2):                                                                                                                                                                                      |                           | 11:30 am – 12:30 pm |
| <ul style="list-style-type: none"><li>• Hands-on training with image intensifier</li><li>• Simulation model</li><li>• Facilitators: Dr Zhuoran Chen, Dr Dominic Lee, Prof Bill Lynch, Prof David Lubowski</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"><li>• Troubleshooting intraoperative difficulties</li><li>• Anatomical variations</li><li>• Facilitators: A/Prof Kim-Chi Phan-Thien, A/Prof Emmanuel Karantanis</li></ul> |                           |                     |
|                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                             |                           |                     |
| Lunch                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                             |                           |                     |
| Local anaesthetic infusion for pudendal nerve block after haemorrhoidectomy                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                             | Prof David Lubowski       | 12:30 pm – 1:30 pm  |
|                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                             |                           |                     |
| Practical A (Group 2):                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                            | Practical B (Group 1):                                                                                                                                                                                      |                           | 1:30 pm – 2:30 pm   |
| <ul style="list-style-type: none"><li>• Hands-on training with image intensifier</li><li>• Simulation model</li><li>• Facilitators: Dr Zhuoran Chen, Dr Dominic Lee, Prof Bill Lynch, Prof David Lubowski</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"><li>• Troubleshooting intraoperative difficulties</li><li>• Anatomical variations</li><li>• Facilitators: A/Prof Kim-Chi Phan-Thien, A/Prof Emmanuel Karantanis</li></ul> |                           |                     |
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| Common auditorium                                                                                                                                                                                                   | Programming                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                             | Gareth Queenin            | 2:30 pm – 3:30 pm   |
|                                                                                                                                                                                                                     | <ul style="list-style-type: none"><li>• Electric theory: positive and negative electrodes</li><li>• Electrode configuration and electrical field shapes</li><li>• Standard programs: the electrodes used and how the field is shaped</li><li>• Amplitude, pulse width and rate: how they impact on clinical outcomes, and battery life</li><li>• When and how to change programs</li></ul> |                                                                                                                                                                                                             |                           |                     |
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| Afternoon tea                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                             |                           | 3:30 pm – 4:00 pm   |
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| Common auditorium                                                                                                                                                                                                   | Updates in technology                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                             | Medtronic team            | 4:00 pm – 4:20 pm   |
|                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                             |                           |                     |
| Common auditorium                                                                                                                                                                                                   | Conclusion                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                             | A/Prof Kim-Chi Phan-Thien | 4:20 pm – 4:30 pm   |

# Sacral Neuromodulation Workshop – Skills Stations (sponsored by Medtronic)

## Practical A

Hands on with image intensifier

### Objectives:

By the end of the session, trainees will be able to:

1. Identify and use the equipment required for a basic evaluation of sacral neuromodulation (peripheral nerve electrode).
2. Identify and use the equipment required for advanced evaluation of sacral neuromodulation with a tined lead.
3. Describe and demonstrate insertion of a peripheral nerve electrode, using a model, under image intensifier guidance.
4. Describe and demonstrate insertion of a tined lead, using a model, under image intensifier guidance.

### Tasks:

1. Insert a peripheral nerve electrode, using a model, under image intensifier guidance.
2. Insert a tined lead, using a model, under image intensifier guidance.

## Practical B

Troubleshooting intraoperative difficulties

### Objectives:

By the end of the session, trainees will be able to:

1. Describe operative theatre setup.
2. Describe options for skin preparation and draping.
3. Interpret relevant radiology and troubleshoot use of image intensifier.
4. Describe clinical and radiological markers for optimal lead placement.

### Tasks

1. Discuss operative theatre setup.
2. Consider and discuss options for skin preparation and draping.
3. Review examples of images obtained during cases.
4. Consider and discuss clinical and radiological markers for optimal lead placement.