

Mayo Clinic: Stimulation Therapies for Epilepsy

October 21, 2021

Hilton Rochester Mayo Clinic Area, Rochester, MN

Thursday, October 21, 2021

7:15 a.m. — Registration and Breakfast

7:50 a.m. — Welcome & Introductory Remarks — BRIAN LUNDSTROM, M.D., PH.D.

Session 1: Stimulation Introduction

8:00 a.m. — History and Ethical Considerations — GREG WORRELL, M.D., PH.D.

8:40 a.m. — Patient Selection — WILLIAM TATUM, D.O.

9:00 a.m. — Physiology and Electricity — KEITH STARNES, M.D.

Session 2: Vagus Nerve Stimulation for Epilepsy

9:20 a.m. — Surgical Approach — SANJEET GREWAL, M.D.

9:40 a.m. — Programming and Cases — WILLIAM TATUM, D.O.

10:20 a.m. — *Refreshments*

Session 3: Responsive Neurostimulation for Epilepsy

10:40 p.m. — Surgical Approach — RICHARD ZIMMERMAN, M.D.

11:00 p.m. — Programming and Cases — VIKRAM RAO, M.D., PH.D.

12:00 p.m. — *Lunch*

Session 4: Deep Brain Stimulation for Epilepsy

1:20 p.m. — Surgical Approach — JAMIE VAN GOMPEL, M.D.

1:40 p.m. — Programming and Cases — NICHOLAS GREGG, M.D.

2:20 p.m. — *Refreshments*

Session 5: Small group cases

2:40 p.m. — Cycle 1

3:20 p.m. — Cycle 2

4:00 p.m. — Cycle 3

VNS programming — WILLIAM TATUM, D.O., KEITH STARNES, M.D.

RNS programming — AMY CREPEAU, M.D., VIKRAM RAO, M.D., PH.D.

DBS programming — NICHOLAS GREGG, M.D., GREGG WORRELL, M.D., PH.D.

4:40 p.m. — *Conclusions/Wrap-up* — JAMIE VAN GOMPEL, M.D.

5:00 p.m. — *Social Hour-Hilton Rooftop*

Mayo Clinic: Stimulation Therapies for Epilepsy

October 22, 2021

Hilton Rochester Mayo Clinic Area, Rochester, MN

Friday, October 22, 2021

7:15 a.m. — Breakfast

7:55 a.m. — Announcements — JAMIE VAN GOMPEL, M.D.

Session 1: Novel Stimulation Approaches

8:00 a.m. — Trial Stimulation and Novel Targets — BRIAN LUNDSTROM, M.D., PH.D.

8:20 a.m. — Integrating Imaging and Stimulation — BEN BRINKMANN, PH.D.

8:40 a.m. — Novel Electrode Placement and Cases — JAMIE VAN GOMPEL, M.D.

9:00 a.m. — Non-invasive Brain Stimulation with Cases — ALEX ROTENBERG, M.D., PH.D.

10:00 a.m. — *Refreshments*

10:30 a.m. — Next Generation Epilepsy Stimulation — GREG WORRELL, M.D., PH.D.

11:00 a.m. — Psychiatry and Stimulation — PAUL CROARKIN, D.O., M.S.

11:30 a.m. — Future Stimulation, Imaging, & Epilepsy — KAI MILLER, M.D., PH.D.

12:00 p.m. — *Lunch*: Panel Discussion with Invited Faculty (12:15-12:45)

VIKRAM RAO, M.D., PH.D.

ALEX ROTENBERG, M.D., PH.D.

Session 2: Small Group Cases

1:20 p.m. — Cycle 1

2:00 p.m. — Cycle 2

2:40 p.m. — Cycle 3

Electrode Planning — SANJEET GREWAL, M.D., KAI MILLER, M.D., PH.D., AND JAMIE VAN GOMPEL, M.D.

Trial Stimulation — NICHOLAS GREGG, M.D., GREGG WORRELL, M.D., PH.D.

Non-invasive Brain Stimulation — ALEX ROTENBERG, M.D. PH.D.

3:20 p.m. — Choosing Which Stimulation Modality to Use — JAMIE VAN GOMPEL, M.D.

3:40 p.m. — *Wrap-up and Adjourn*

4:00 p.m. — **Optional: Mayo Clinic Tour**— MATTHEW DACY, ASSISTANT PROFESSOR OF HISTORY OF MEDICINE