



## International Symposium on Surgery of the Spastic Upper Limb

Rochester, Minnesota, USA

June 4-6, 2024

All times noted are U.S. Central Time (CT)

Tuesday, June 4, 2024	
<b><u>Optional Precourse: Hands-on Cadaver Workshop in the <a href="#">Anatomy Lab</a></u></b> <b>(In-person Only)</b>	
6:00 a.m.	<b>Registration &amp; Breakfast (Stabile Building – 9th Floor Conference Room)</b>
7:00 a.m.	<b>Welcome and Lab Overview</b> <i>Peter C. Rhee, D.O., M.S.*</i>
7:10 a.m.	<b>Surgical Management of the Spastic Shoulder: Overview of Techniques</b> <b>Lecture</b> <i>Peter C. Rhee, D.O., M.S.*</i>
7:30 a.m.	<b>Live Surgery Demonstration</b> <b>Deltopectoral Approach, Muscle, and Nerve Based Procedures</b> <i>Bertrand Coulet, M.D., Ph.D.</i>
7:40 a.m.	<b>Walk to Anatomy Lab (Stabile Building – 9th Floor)</b>
7:50 a.m.	<b>Participation in Dissection</b> <b>Deltopectoral Approach, Muscle, and Nerve Based Procedures</b> <i>All Faculty</i>
8:35 a.m.	<b>Refreshment Break (Stabile Building – 9th Floor Conference Room)</b>
8:45 a.m.	<b>Surgical Management of the Spastic Flexed Elbow: Peripheral Nerve Based Procedures</b> <b>Lecture</b> <i>Nadine Sturbois-Nachef, M.D.</i>
9:00 a.m.	<b>Live Surgery Demonstration</b> <b>Biceps, Brachialis, and Brachioradialis Hyperselective Neurectomy</b> <i>Caroline Leclercq, M.D.</i>
9:15 a.m.	<b>Surgical Management of the Spastic Flexed Elbow: Muscle Based Procedures</b> <b>Lecture</b> <i>Grainne Colgan, M.D.</i>
9:30 a.m.	<b>Live Surgery Demonstration</b> <b>Biceps, Brachialis, and Brachioradialis Muscle Lengthening/Release and Osteocapsular Release</b> <i>Simon Pickard, M.D.</i>
9:45 a.m.	<b>Walk to Anatomy Lab (Stabile Building – 9th Floor)</b>

9:55 a.m.	<b>Participation in Dissection</b> <b>Elbow Flexor Hyperselective Neurectomy and Muscle Lengthening/Release</b> <i>All Faculty</i>
10:55 a.m.	<b>Refreshment Break (Stabile Building – 9th Floor Conference Room)</b>
11:05 a.m.	<b>Surgical Management of the Spastic Pronated Forearm and Flexed Wrist: Muscle Based Procedures</b> <b>Lecture</b> <i>Miryam Obdeijn, M.D.</i>
11:20 p.m.	<b>Live Surgery Demonstration</b> <b>Pronator Teres, Flexor Carpi Ulnaris, Flexor Carpi Radialis Lengthening, FCU and ECU to ECRB Transfer</b> <i>Wee Lam, M.D.</i>
11:35 p.m.	<b>Surgical Management of the Spastic Pronated Forearm and Flexed Wrist: Peripheral Nerve Based Procedures</b> <b>Lecture</b> <i>Caroline Leclercq, M.D.</i>
11:45 a.m.	<b>Live Surgery Demonstration</b> <b>PT and FCR HSN, FCU HSN</b> <i>Nadine Sturbois-Nachef, M.D.</i>
11:55 p.m.	<b>Walk to Anatomy Lab (Stabile Building – 9th Floor)</b>
12:05 p.m.	<b>Participation in Dissection</b> <b>PT and FCR HSN, PT Fractional Lengthening, FCU HSN, FCU and ECU to ECRB Transfer</b> <i>All Faculty</i>
12:50 p.m.	<b>Working Lunch (Stabile Building – 9th Floor Conference Room)</b>
1:05 p.m.	<b>Spastic Extrinsic Finger Flexors: Muscle-Tendon Lengthening Procedures</b> <b>Lecture</b> <i>Praveen Bhardwaj, MBBS, MS</i>
1:20 p.m.	<b>Live Surgery Demonstration</b> <b>Volar Forearm Approach, Exposure and Lengthening of FDS/FDP</b> <i>Raja Sabpathy, M.D.</i>
1:30 pm.	<b>Clenched Fist in the Non-functional Hand</b> <b>Lecture</b> <i>Simon Pickard, M.D.</i>
1:40 p.m.	<b>Live Surgery Demonstration</b> <b>Superficialis to Profundus Transfer</b> <i>Bertrand Coulet M.D., Ph.D.</i>
1:50 p.m.	<b>Walk to Anatomy Lab (Stabile Building – 9th Floor)</b>
2:00 p.m.	<b>Participation in Dissection</b> <b>Volar Forearm Approach, Exposure and Lengthening of FDS/FDP, STP Transfer</b> <i>All Faculty</i>

2:50 p.m.	<b>Refreshment Break (Stabile Building – 9th Floor Conference Room)</b>
3:00 p.m.	<b>Intrinsic Muscle Spasticity and Contracture: Overview of Techniques</b> <b>Lecture</b> <i>Raja Sabapathy, M.D.</i>
3:10 p.m.	<b>Live Surgery Demonstration</b> <b>Distal and Proximal Intrinsic Tenotomies, Deep Motor Branch of Ulnar Nerve Neurectomy</b> <i>Miryam Obdeijn, M.D.</i>
3:20 p.m.	<b>Management of the Thumb-in-Palm Deformity</b> <b>Lecture</b> <i>Wee Leon Lam, M.D.</i>
3:35 p.m.	<b>Live Surgery Demonstration</b> <b>FPL Fractional Lengthening, Adductor Pollicis HSN, FPB Origin Release vs Selective Neurectomy, AP Distal Tenotomy vs Origin Release, EPL Rerouting, FDI Origin Release</b> <i>Grainne Colgan, M.D.</i>
3:50 p.m.	<b>Walk to Anatomy Lab (Stabile Building – 9th Floor)</b>
4:00 p.m.	<b>Participation in Dissection</b> <b>Distal and Proximal Tenotomies, Ulnar and Recurrent Motor Neurectomies, FPL Lengthening, AP HSN and Lengthening and Release, FPB Origin Release vs Selective Neurectomy, EPL Rerouting, FDI Origin Release</b> <i>All Faculty</i>
5:00 p.m.	<b>Closing Remarks (in the Anatomy Lab)/Adjourn</b> <i>Peter C. Rhee, D.O., M.S.*</i>

<b>Wednesday, June 5, 2024</b> <b><a href="#">General Session</a> (In-person and Livestream)</b> <b>Leighton Auditorium – Siebens Building (2<sup>nd</sup> Floor)</b>	
6:30 a.m.	<b>Registration (Leighton Auditorium – Siebens 2)</b> <b>Breakfast and Exhibits (Rochester Marriott Mayo Clinic Area Hotel Ballroom – Connected to Siebens Building on the 2<sup>nd</sup> Floor)</b>
7:30 a.m.	<b>Welcome and Course Overview</b> <i>Peter C. Rhee, D.O., M.S.* and Michael C. Wainberg, M.D.*</i>
7:40 a.m.	<b>Setting the Tone for the Symposium: Pathophysiology of Spasticity versus Dystonia</b> <i>Geoffrey R. Smith II, M.D.*</i>
8:00 a.m.	<b>Pathoanatomy of Spastic Deformities: Spasticity, Muscle Contracture, and Joint Contracture</b> <i>Erica Bellamkonda, M.D.*</i>

8:10 a.m.	<b>Rehabilitation Techniques for the Spastic Upper Limb</b> <i>Staci L. Eischen, PT, NCS*</i>
8:25 a.m.	<b>Updates in the Pharmacologic Management of the Spastic Upper Limb</b> <i>Dmitry Esterov, D.O.*</i>
8:40 a.m.	<b>Panel Questions and Answers Session</b> <i>Moderators: Peter C. Rhee, D.O., M.S.* and Michael C. Wainberg, M.D.*</i>
8:50 a.m.	<b>The Role and Indication for Cryoneurotomy</b> <i>Marjorie Salga, M.D.</i>
9:05 a.m.	<b>Dynamic EMG and Motion Analysis for the Spastic Upper Limb</b> <i>Ray M. Lunasin PT, DPT, Ph.D.(c)*</i>
9:20 a.m.	<b>Pre-operative Counseling Prior to Upper Limb Reconstructive Surgery: What Patients Need to Know</b> <i>Anna Goff, CNP*</i>
9:30 a.m.	<b>Perioperative Anesthetic Management for Surgery on the Spastic Upper Limb</b> <i>Mitchell J. Kerfeld, M.D.*</i>
9:45 a.m.	<b>Panel Questions and Answers Session</b> <i>Moderators: Peter C. Rhee, D.O., M.S.* and Michael C. Wainberg, M.D.*</i>
9:55 a.m.	<b>Refreshment Break (In Front of the Leighton Auditorium – Siebens 2)</b>
10:10 a.m.	<b>Surgery for the Spastic Shoulder: My Approach</b> <i>Bertrand Coulet, M.D., Ph.D.</i>
10:30 a.m.	<b>Debate: Muscle versus Peripheral Nerve Based Procedures for the Spastic Shoulder</b> <i>Simon Pickard, M.D. (Muscle Based Procedures)</i> <i>Eugene Park, M.D. (Peripheral Nerve Based Procedures)</i>
10:50 a.m.	<b>A Physiatrist's Approach for Shoulder Spasticity Management</b> <i>Sheng Li, M.D., Ph.D.</i>
11:00 a.m.	<b>Peripheral Nerve Stimulation for Hemiplegic Shoulder Pain</b> <i>William D. Mauck, M.D.*</i>
11:10 a.m.	<b>Livestream Surgical Tips and Tricks: Spastic Shoulder Techniques</b> <i>Nadine Sturbois-Naschef, M.D.</i>
11:30 a.m.	<b>Case Presentations and Panel Discussions</b> <i>Peter C. Rhee, D.O., M.S.*</i> <i>Caroline Leclercq, M.D.</i> <i>Shai Luria, M.D.</i> <i>Miryam Obdeijn, M.D.</i> <i>Marjorie Salga, M.D.</i> <i>Teresa Jeardeau, CHT, OT*</i>
12:00 p.m.	<b>Lunch and Exhibits (Rochester Marriott Mayo Clinic Area Hotel Ballroom – Connected to Siebens Building on the 2<sup>nd</sup> Floor)</b>
13:00 p.m.	<b>Surgery for the Spastic Elbow: My Approach</b> <i>Caroline Leclercq, M.D.</i>

13:20 p.m.	<b>Debate: Chemical/Thermal Neurotomy vs Hyperselective Neurectomy</b> <i>Marjorie Salga, M.D. (Chemical/Thermal Neurotomy)</i> <i>Wee Leon Lam, M.D. (Hyperselective Neurectomy)</i>
13:40 p.m.	<b>Debate: Triceps Spasticity – Staged versus Single Event Approach</b> <i>Paolo Panciera, M.D. (Staged or Multi-Event)</i> <i>Kitty Wu, M.D.* (Single Event)</i>
14:00 p.m.	<b>Livestream Surgical Tips and Tricks: Spastic Elbow Techniques</b> <i>Grainne Colgan, M.D.</i>
14:20 p.m.	<b>Case Presentations and Panel Discussions</b> <i>Peter C. Rhee, D.O., M.S.*</i> <i>Praveen Bhardwaj, M.D.</i> <i>Dean Boyce, M.D.</i> <i>Simon Pickard, M.D.</i> <i>Sheng Li, M.D., Ph.D.</i> <i>Teresa A. Jeardeau, C.H.T., O.T.*</i>
14:50 p.m.	<b>Refreshment Break (In Front of the Leighton Auditorium – Siebens 2)</b>
15:05 p.m.	<b>Surgery for the Spastic Forearm and Wrist: My Approach</b> <i>Raja Sabapathy, M.D.</i>
15:25 p.m.	<b>Minimally Invasive Approach for the Flexed Wrist Deformity: Percutaneous Procedures</b> <i>Sheng Li, M.D., Ph.D.</i>
15:35 p.m.	<b>Debate: Flexed Wrist Deformity – Total Wrist Arthrodesis vs Soft Tissue Rebalancing</b> <i>Dean Boyce, M.D. (Soft Tissue Rebalancing)</i> <i>Eva Ponten, M.D. (Total Wrist Arthrodesis)</i>
15:55 p.m.	<b>Livestream Surgical Tips and Tricks: Spastic Wrist Techniques</b> <i>Andreas Gohritz, M.D.</i>
16:15 p.m.	<b>Case Presentations and Panel Discussions</b> <i>Peter C. Rhee, D.O., M.S.*</i> <i>Shai Luria, M.D.</i> <i>Vaikunthan Rajaratnam M.D.</i> <i>Wee Lam, M.D.</i> <i>Marjorie Salga, M.D.</i> <i>Stephanie Kannas, C.H.T, O.T., O.T.D.*</i>
17:00 p.m.	<b>Closing Remarks/Adjourn</b> <i>Peter C. Rhee, D.O., M.S.*</i>
18:00 p.m.	<b>Course Reception</b> <b>Dan Abraham Healthy Living Center (Downtown Location – 7<sup>th</sup> Floor Skyline Atrium)</b>

**Thursday, June 6, 2024**  
**General Session** (In-person and Livestream)  
**Leighton Auditorium – Siebens Building (2nd Floor)**

6:30 a.m.	<b>Breakfast and Exhibits (Rochester Marriott Mayo Clinic Area Hotel Ballroom – Connected to Siebens Building on the 2<sup>nd</sup> Floor)</b>
7:25 a.m.	<b>Welcome and Review Day 1</b> <i>Peter C. Rhee, D.O., M.S.*</i>
7:30 a.m.	<b>Heritage Lecture: History of Surgery for the Spastic Upper Limb</b> <i>Andreas Gohritz, M.D.</i>
8:00 a.m.	<b>Surgical Management for the Spastic Clenched Fist: My Approach</b> <i>Vaikunthan Rajaratnam, M.D.</i>
8:20 a.m.	<b>Intrinsic Spasticity and Contractures: Surgical Options</b> <i>Paolo Panciera, M.D.</i>
8:30 a.m.	<b>Swan Neck and Claw Deformities: What Should We Do?</b> <i>Praveen Bhardwaj, MBBS, MS</i>
8:40 a.m.	<b>Debate: Extrinsic Finger Flexor Spasticity [Volitional Control Present] – Hyperselective Neurectomy vs Muscle Lengthening</b> <i>Wee Lam, M.D. (Hyperselective Neurectomy)</i> <i>Andreas Gohritz, M.D. (Muscle Lengthening)</i>
9:00 a.m.	<b>Rehabilitation Techniques after Finger Flexor Lengthening</b> <i>Stephanie Kannas, C.H.T., O.T., O.T.D.*</i>
9:10 a.m.	<b>Livestream Surgical Tips and Tricks: Clenched Fist Deformities</b> <i>Raja Sabapathy, M.D.</i>
9:30 a.m.	<b>Case Presentations and Panel Discussions</b> <i>Peter C. Rhee, D.O., M.S.*</i> <i>Dean Boyce, M.D.</i> <i>Miryam Obdeijn, M.D.</i> <i>Nadine Sturbois-Nachef, M.D.</i> <i>Marjorie Salga, M.D.</i> <i>Jamie Hilker, C.H.T., O.T.*</i>
10:00 a.m.	<b>Refreshment Break (In Front of the Leighton Auditorium – Siebens 2)</b>
10:15 a.m.	<b>Surgical Management for the Thumb-in-Palm Deformity: My Approach</b> <i>Shai Luria, M.D.</i>
10:35 a.m.	<b>Adductor Pollicis Spasticity and Contracture: What Can We Do?</b> <i>Grainne Colgan, M.D.</i>
10:50 a.m.	<b>Is There a Role for Thumb CMC, MCP, or IP Arthrodesis</b> <i>Bertrand Coulet, M.D., Ph.D.</i>
11:00 a.m.	<b>Thumbs up: How to Assess and What Function is Needed?</b> <i>Miryam Obdeijn, M.D.</i>

11:10 a.m.	<b>Livestream Surgical Tips and Tricks: Thumb-in-Palm Deformity</b> <i>Steven Moran, M.D.*</i>
11:30 a.m.	<b>Case Presentations and Panel Discussions</b> <i>Peter C. Rhee, D.O., M.S.*</i> <i>Simon Pickard, M.D.</i> <i>Caroline Leclercq, M.D.</i> <i>Sheng Li, M.D., Ph.D.</i> <i>Jamie Hilker, C.H.T, O.T.*</i>
12:00 p.m.	<b>Lunch and Exhibits (Rochester Marriott Mayo Clinic Area Hotel Ballroom – Connected to Siebens Building on the 2<sup>nd</sup> Floor)</b>
13:00 p.m.	<b>Cerebral Palsy: When Should We Operate on the Growing Child?</b> <i>Eva Ponten, M.D., Ph.D.</i>
13:20 p.m.	<b>Debate: The Pediatric Spastic Flexed Wrist – Flexor Carpi Ulnaris vs Extensor Carpi Ulnaris Transfers</b> <i>Raja Sabapathy, M.D. (Extensor Carpi Ulnaris Based Transfer)</i> <i>Steven Moran, M.D.* (Flexor Carpi Ulnaris Based Transfer)</i>
13:45 p.m.	<b>Debate: Severe Flexed Wrist Posture in Children: Midcarpal Osteotomy versus Proximal Row Carpectomy and Soft Tissue Rebalancing</b> <i>Nadine Sturbois-Nachef, M.D. (Midcarpal Osteotomy)</i> <i>Shai Luria, M.D. (Proximal Row Carpectomy and Soft Tissue Rebalancing)</i>
14:10 p.m.	<b>Livestream Surgical Tips and Tricks: Pediatric Spastic Wrist/Hand</b> <i>Dean Boyce, M.D.</i>
14:30 p.m.	<b>Rehabilitation Approach and Techniques for the Pediatric Spasticity Patient</b> <i>Mary E. Lynch, M.D.*</i>
14:45 p.m.	<b>Refreshment Break (In Front of the Leighton Auditorium – Siebens 2)</b>
15:00 p.m.	<b>“Reset” Neurotomy of the Spastic Nerve: Will It Stay Spastic?</b> <i>Eugene Park, M.D.</i>
15:15 p.m.	<b>Nerve Transfers to the Spastic Upper Limb: Is It Feasible?</b> <i>Kitty Wu, M.D.*</i>
15:25 p.m.	<b>Contralateral C7 Transfer for Spasticity: Indications and Limitations (Recorded)</b> <i>Vaikunthan Rajaratnam, M.D.</i>
15:40 p.m.	<b>Hyperselective Neurectomy in the Patient with Dystonia: Pump the Brakes or Accelerate?</b> <i>Wee Lam, M.D.</i>
15:55 p.m.	<b>Role of Amputation and Prosthetic Fitting for the Severely Spastic and Non-functional Hand</b> <i>F. Clay Smither, M.D.*</i>
16:10 p.m.	<b>Spasticity in the Spinal Cord Injured Patient: Special Considerations for Reconstruction</b> <i>Andreas Gohritz, M.D.</i>

16:25 p.m.	<b>The Parkinsonian Hand Deformity: Classification and Treatment</b> <i>Bertrand Coulet, M.D., Ph.D.</i>
16:40 p.m.	<b>The Spastic Pronated Forearm: Can We Do Better?</b> <i>Simon Pickard, M.D.</i>
16:55 p.m.	<b>Spotlight Lecture: Current and Future of Surgical Innovation for the Spastic Upper Limb</b> <i>Caroline Leclercq, M.D.</i>
17:25 p.m.	<b>Wrap-up/Closing Remarks/Adjourn</b> <i>Peter C. Rhee, D.O., M.S.* and Michael C. Wainberg, M.D.*</i>

\*Mayo Clinic Faculty