## Advances in Brachial Plexus Reconstruction: A Surgical Skills Course American Society for Surgery of the Hand April 13-15, 2017 Program Schedule

Thursday, April 13, 2017		
7:00 a.m.	Registration	
	Marriott Ballroom	
	Brachial Plexus: The Basics	
8:00 a.m.	Brachial Plexus and Spinal Nerve Anatomy	
	Milan V. Stevanovic, M.D.	
8:15 a.m.	Injury: Mechanisms and Pathoanatomy: Common Patterns of Injury	
	Amy M. Moore, M.D.	
8:30 a.m.	Birth-Related Plexus Injury: Demographics, Risk Factors, Incidence	
	Robert J. Spinner, M.D.	
8:40 a.m.	Physiology of Lower Motor Neuron Injury: Nerve and Muscle Changes	
	Brian Crum, M.D.	
	Adult Brachial Plexus Injury	
8:50 a.m.	Functional Anatomy of Brachial Plexus: Common Patterns of Adult Injury: Motor and	
	Sensory Loss: Global, Upper, Terminal Branches	
	Scott Wolfe, M.D.	
9:05 a.m.	Case Examples: Video Recordings of Upper Trunk, Global Injury Exam	
	Alexander Y. Shin, M.D.	
9:10 a.m.	Patterns of Injury in OBBP: Frequency, Factors Affecting Outcome	
	Scott H. Kozin, M.D.	
9:15 a.m.	OBBP Case Examples	
	Scott H. Kozin, M.D.	
9:20 a.m.	Associated Injuries in Traumatic Plexus (Polytrauma): Chest Wall/Pneumo; Vascular;	
	Cervical FX; UE and LE fractures, Abdominal Injury, Soft Tissue Loss	
0.00	TBD	
9:30 a.m.	Vascular Injury in Adult BP: Acute Physical Exam, Role of Vascular Reconstruction at Injury,	
	or with Delay in Management	
0.40	Allen T. Bishop, M.D.	
9:40 a.m.	Pain: Etiology (Deafferentation, Joint Subluxation); Quality, Severity, Location, Aggravating	
	Factors, Time Course	
9:50 a.m.	Allan Belzberg, M.D., FRCSC  Break and Exhibits	
	Marriott Ballroom	
	Diagnosis of Brachial Plexus Injury	
10:45 a.m.	History and Physical Exam of Adult BPI: Motor and Sensory Exam with Emphasis on Root	
10.45 a.III.	Avulsion Diagnosis, BMRC and Other Measures, Serial Assessments and Record Keeping	
	Robert J. Spinner, M.D.	
11:00 a.m.	Examination of the Baby and Young Child: Role of Serial Assessments	
	Howard M. Clarke, M.D., Ph.D., FRCS, FACS, FAAP	

Imaging of Brachial Plexus		
11:10 a.m.	Neuroradiology Controversy: MRI vs CT Myelography; Role for MRI Neurography Below	
	Nerve Roots	
	TBD	
11:25 a.m.	Ultrasound: Diagnosis of Root Avulsion; Other Uses	
	Jay Smith, M.D.	
11:35 a.m.	Preoperative Electrophysiology	
	Brian Crum, M.D.	
11:55 a.m.	Other Evaluation: Pulmonary Function Studies, INSP/EXP Views; X-Rays for Associated	
	Injury	
	Allen T. Bishop, M.D.	
12:00 p.m.	Role of the Therapist in adult BP and OBBP Management Preoperatively	
	Kimberly N. Jensen, P.T., C.H.T.	
12:10 p.m.	Lunch and Exhibits	
	Marriott Ballroom	
	Adult Surgical Management	
	Surgical Decision-Making in Adult Plexus	
1:30 p.m.	Timing of Surgical Intervention: When to Refer Your Patient, When to Operate	
	Alexander Y. Shin, M.D.	
1:45 p.m.	Exploration and Open (Intraoperative) Electrophysiology: Techniques, Significance and	
	Value of SSEP, MEPs, Nerve-to-Nerve and Neuromuscular Stimulation	
2.00	Robert J. Spinner, M.D.	
2:00 p.m.	Exploration Findings: Nerve and Vessel Appearance. Scar, Soft Tissues	
	Milan V. Stevanovich	
2:05 p.m.	What Can We Do? Define and Inform Re: Initial Nerve Management Options: Nerve Graft,	
	Nerve Transfer (Extra and Intraplexal), FFMT, Tendon and Joint Procedures in Adults	
2:20 n m	Amy M. Moore, M.D.  Indications/Contraindications/Priorities in the Adult	
2:20 p.m.	Peter M. Murray, M.D.	
2:30 p.m.	Adult patient's expectations and goals versus realistic outcomes: Patient education:	
2.30 μ.π.	teaching tools and methods –	
	Allan Belzberg, M.D., FRCSC	
	Panel Discussion: Adult cases	
2:40 p.m.	Upper Trunk – Scott Wolfe, M.D. /Allen T. Bishop, M.D.	
2110 p	Global case 1: no vascular injury	
	Global case 2: vascular injury	
	Delayed treatment case	
3:00 p.m.	Break with Exhibits	
5.00 μ.m.	Marriott Ballroom	
	Operative Treatment of OBBP	
3:45 p.m.	Indications for surgical reconstruction in OBBP: when to observe and when to operate –	
<b>,</b> -	Howard M. Clarke, M.D., Ph.D., FRCS, FACS, FAAP	
4:00 p.m.	Priorities and reconstructive options in children with Erbs palsy	
	Scott H. Kozin, M.D.	
4:10 p.m.	Erbs' case study	
	Howard M. Clarke, M.D., Ph.D., FRCS, FACS, FAAP	
4:20 p.m.	Priorities and reconstructive options in children with global palsy: Group discussion: grasp	
	reconstruction in child with global palsy	
	Scott H. Kozin, M.D. (10 min)	
	Howard M. Clarke, M.D., Ph.D., FRCS, FACS, FAAP (10 min)	

4:40 p.m.	Nerve graft of viable root vs. nerve transfer: Case presentation with discussion
	Howard M. Clarke, M.D., Ph.D., FRCS, FACS, FAAP and Scott H. Kozin, M.D.
4:55 p.m.	Adjourn
	Friday, April 14, 2017
6:45 a.m.	Breakfast: Stump the Professor - 3 cases from participants
	Marriott Ballroom
6:45 a.m.	Exhibits
	Marriott Ballroom Foyer
7:45 a.m.	Move to Stabile 9 Lab/Classroom
	Adult Brachial Plexus
	Group 1: 8:00 – 9:30 AM
	Group 2: 10:00-11:30 AM
	Classroom – Stabile 9
8:00 a.m11:30 a.m.	Classroom Session:
	<ul> <li>Outcomes of Nerve grafting: issues and nuances (20 Minutes)</li> </ul>
	o Amy M. Moore, M.D.
	Outcome of nerve transfers for elbow function (20 Minutes)
	Alexander Y. Shin, M.D.
	Outcome of nerve transfers for shoulder function (20 Minutes)
	o Peter M. Murray, M.D.
	Surgical Planning: Case scenarios (60 Minutes)  Application Additional A
	<ul> <li>Amy M. Moore, M.D. Alexander Y. Shin, M.D., Peter M. Murray, M.D.</li> <li>Adult Brachial Plexus</li> </ul>
	Adult Bidcillal Flexus
	Group 1: 10:00-11:30 AM
	Group 2: 8:00 – 9:30 AM
	Hands-On Lab – Stabile 9
8:00 a.m11:30 a.m.	Hands-On Skills Laboratory
	Supraclavicular Approach: Demonstration and Lab – Robert J. Spinner, M.D.
	Infraclavicular Approach: Demonstration and Lab – Scott Wolfe, M.D.
	Cable Graft Fabriaction with Fibrin Glue and Grafting Methods –  Allan T. Bishan M.D.
	Allen T. Bishop, M.D.
	Moderator: Scott Wolfe, M.D.
	Woderator. Scott Worle, Wild.
9:30 a.m. – 10:00 a.m.	Break – Stabile Break Room
20.00 0	Group 1 Transition to Lab
	Group 2 Transition to Classroom
11:30 a.m.	Lunch and Exhibits
	Marriott Ballroom
12:45 p.m.	Return to Stabile Facilities (Lab & Classroom)

Group 1: 1:00 – 2:30 PM Group 2: 3:30-5:00 PM  Classroom – Stabile 9  Distal nerve transfers -  a) Radial Nerve (10 Minutes) – Amy M. Moore, M.D.  b) Ulnar Nerve (10 Minutes) – Amy M. Moore, M.D.  c) Median Nerve (10 Minutes) – Amy M. Moore, M.D.  Free Muscle Techniques and Results (20 Minutes) – Alexander Y. Shin, M.D.  Amputation? When is it a surgical option? (15 Minutes) –  Allan Belzberg, M.D., FRCSC  Late reconstruction in OBBP: Shoulder, elbow, forearm and wrist (20 Minutes) –  William J. Shaughnessy, M.D.  Proximal Nerve Transfer Techniques  Group 1: 3:30-5:00 PM  Group 2: 1:00 – 2:30 PM  Hands-On Lab – Stabile 9
<ul> <li>Distal nerve transfers -         <ul> <li>a) Radial Nerve (10 Minutes) – Amy M. Moore, M.D.</li> <li>b) Ulnar Nerve (10 Minutes) – Amy M. Moore, M.D.</li> <li>c) Median Nerve (10 Minutes) – Amy M. Moore, M.D.</li> </ul> </li> <li>Free Muscle Techniques and Results (20 Minutes) – Alexander Y. Shin, M.D.</li> <li>Amputation? When is it a surgical option? (15 Minutes) –</li></ul>
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Group 1: 3:30-5:00 PM Group 2: 1:00 – 2:30 PM Hands-On Lab – Stabile 9
Group 2: 1:00 – 2:30 PM  Hands-On Lab – Stabile 9
<ul> <li>Harvest of SPA and transfer to SSN: Demonstration and Lab –</li> </ul>
<ul> <li>Peter M. Murray, M.D.</li> <li>ICN motor and sensory: Demonstration and Lab – Allen T. Bishop, M.D.</li> <li>Biceps motor branch, lateral cord contribution to median nerve: Oberlin transfer, double fasicular transfer: Demonstration and Lab – Milan V. Stevanovich, M.D.</li> <li>Triceps to Axillary (Leechavengvong): Demonstration and lab – Scott Wolfe, M.D.</li> </ul>
eak  • Exhibits  • Case Presentations Presented by Faculty arriott Ballroom
ove back to Stabile 9 Classroom and Lab
ourse Reception cation: TBD
Saturday, April 15, 2017
eakfast: Stump the Professor - 3 cases from participants arriott Ballroom
hibits arriott Ballroom Foyer
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Controversies in Brachial Plexus Reconstruction				
	Group 1: 8:00-9:30 AM			
Group 2: 10:00-11:30 AM				
Classroom – Stabile 9				
8:00 a.m9:30 a.m.	Controversies in BP reconstruction (20 Minutes) – Robert J. Spinner, M.D.			
	<ul> <li>Grasp: Should we even try (20 Minutes) – Allen T. Bishop, M.D.</li> </ul>			
10:00 a.m11:30 a.m.	<ul> <li>Case Presentations: grasp (20 Minutes) – Allen T. Bishop, M.D.</li> </ul>			
	Pain in BPI			
	<ul> <li>Pharmacologic Management of Pain (15 Minutes) -</li> </ul>			
	Keith A. Bengston, M.D.			
	<ul> <li>Surgical Management of Pain (15 Minutes) – Allan Belzberg, M.D., FRCSC</li> </ul>			
Recons	structive Procedures: Distal Nerve Transfers Muscle/Tendon Transfers			
	Group 1: 10:00-11:30 AM			
	Group 2: 8:00-9:30 AM			
	Hands-On Lab – Stabile 9			
8:00 a.m9:30 a.m.	Distal radial nerve transfers: Demonstration and Lab – Amy M. Moore			
	Median Nerve Transfers – Scott Wolfe, M.D.			
10:00 a.m11:30 a.m.	Ulnar Nerve Transfers –Amy M. Moore			
	Grasp with Brachialis or ECRL to FDP - Alexander Y. Shin, M.D.			
	Pinch: BR to FPL, IP Fusion - Peter M. Murray, M.D.			
	Elbow flexorplasty with Latisimmus – Milan V. Stevanovich, M.D.			
	<ul> <li>Latissimus dorsi +/- Teres major Tendon Transfer for Shoulder Motion – Scott H.</li> </ul>			
	Kozin, M.D.			
9:30 a.m.	BREAK			
9:30 a.m.				
	Group 3 Transition to Classroom			
	Group 2 Transition to Classroom     Stabile Break Room			
	Stabile Dieak (OOIII			
11:30 a.m.	Closing discussion/Q&A			
11.50 u.iii.	Stabile 9 Classroom			
12:00 p.m.	Adjourn			