

WORLD TETRAHAND CONGRESS



Stoke Mandeville Hospital and



22-23 September 26, Waterside Theatre, Aylesbury, UK

PROGRAMME | TUESDAY 22 SEPTEMBER

08:45	Registration		
09:30	WATERSIDE THEATRE	NORMAN BRAGG STUDIO	
	Opening Chair: Wee Lam		
	Patient opening Jonathan Fogerty and Mr Wail Ahmed		
	The IFSSH Fellows		
10:00	Guttmann Memorial Lecture 1 Tetraplegia, reconstructing upper limb function in the cervical spinal injury Jayme Bertelli		
10:30	Refreshment break and exhibition		
11:00	Biomechanics and tendon transfers Chairs: Simon Pickard & Caroline Leclercq	Free papers: Innovation	
	Non-traumatic SCI etiologies Kim Seidel-Miller	11:00	Development and initial evaluation of the cylinder test for assessing hand opening in neurological conditions Therese Ramström
		11:06	Recipient nerve evaluation for nerve transfers in tetraplegia: Is surface electrical stimulation a reliable alternative to electrodiagnostics in determining the presence of lower motor neuron injury preoperatively? Dominique Tremblay
	Therapist-led planning: from assessment to action Jennifer Dunn	11:12	From forearm to upper arm: Expanding motor point mapping for precision in surgical and conservative rehabilitation strategies Ines Bersch
		11:18	Upper limb lower motor neuron assessment in cervical SCI: an implementation study Anne Bryden
	The Kiwi Split: 36 years of thumb IPJ stabilisation Jeremy Simcock	11:24	An innovative model for long-term support of individuals with implanted neuroprostheses Anne Bryden
		11:30	Discussion
	Discussion	11:40	A simple neuroprosthesis for hand grasp in cervical SCI: implant technique and acute outcomes Megan Moynahan
	Proximal to distal? Mr Simon Pickard	11:46	Improving information and instructions concerning tetrahand surgery for patients and therapists by open access videos Richarda Boettcher
		11:52	A novel rowing ergometer with potential for: post surgical training in Tetrahand rehabilitation Brian Andrews
	Extremes Hannes Granberg	11:58	Comparing upper extremity function with nerve and tendon transfer intervention vs networked neuroprosthesis device: a case study Matthew Boberek
		12:04	Bilateral alphabet procedure in Tetraplegia: a case report on functional outcomes, assistive device and quality of life Anders Kjoerup

	WATERSIDE THEATRE	NORMAN BRAGG STUDIO	
	Most effective transfer for elbow/wrist, what is the best way to reconstruct the intrinsic? Carina Reinholdt	12:10	Discussion
		12:20	Close
13:00	Lunch and Exhibition		
14:00	Nerve transfers Chair: Ida Fox & Jayme Bertelli	Free papers: Tendon	
	Nerve regeneration in SCI: why nerve transfers work – and why they sometimes don't Sami Tuffaha	14:00	Posterior deltoid-to-triceps transfer in tetraplegia: evaluation of a shortened rehabilitation protocol Lina Bunketorp Käll
		14:06	The development of an individualised posterior deltoid to triceps tendon transfer rehabilitation pathway Quinn McNaughtan
	The power of combined techniques: nerve and tendon transfer Carina Reinholdt	14:12	A novel concept for preoperative evaluation of ECRL and ECRB function for tendon transfer in tetraplegia Kyle Chepla
		14:18	Should we still build on the "House" procedure for intrinsic reconstruction? Armin Pallaver
	Long term outcomes Natasha Van Zyl	14:24	Bilateral single-stage posterior deltoid-to-triceps transfer for elbow extension restoration in tetraplegia: Outcomes and surgical considerations Silvia Schibli
	Brachialis to ulnar nerve transfer for selective ulnar sided flexor digitorum profundus reinnervation: a cadaveric and early clinical series James Ledgard	14:30	Discussion
		14:40	Functional goals of individuals with cervical spinal cord injury undergoing surgical reconstruction for elbow extension and their representation in standard assessments Sabrina Koch-Borner
	Predictors for unsuccessful motor recovery following nerve transfer to restore upper limb movement in individuals with tetraplegia Jefferson Dorneles	14:46	Outcomes of the alphabet procedure: A prospective evaluation Renata Paulos
		14:52	A novel technique for intrinsic reconstruction in grip reconstruction in tetraplegic patients; Outcome and comparisons with the House procedure Johan Berg
	Discussion	14:58	Symptomatic ulnar nerve compression after biceps-to-triceps tendon transfer for elbow extension reconstruction in Tetraplegia: a case report Noah Oiknine
	High SPINS: making the best use of the nerve to supinator in high level spinal cord injuries Jeremy Simcock	15:04	Discussion
	Tetrahand Care in kids Eugene Park	15:12	Close

	WATERSIDE THEATRE		NORMAN BRAGG STUDIO		
16:00	Refreshment break and exhibition				
16:30	Technology and research Chair: Sami Tuffaha		Free papers: Nerve 1		
	The relation between innervation status and electrical stimulation-induced muscle force Maria Alberty		16:30	Delayed SPIN transfer in patients with Tetraplegia: a case series Renata Paulos	
	Optimising upper limb diagnostics: Motor point mapping and ultrasound for clinical decision-making Ines Bersch		16:36	Nerve transfer enhance surgical access and timeliness of upper limb reconstruction in cervical spinal cord injury Jennifer Dunn	
	High-density EMG - improved diagnostics of motor unit viability in tetraplegia? Taian Martins		16:42	Outcomes after nerve transfer for tetraplegia: does upper versus lower motor neuron injury and time to surgery matter? Kyle Chepla	
	Implantable technologies in tetrahand care: An update/ direct spinal cord stimulation Sebastian Gomez-Pena		16:48	Beyond the 12-month rule: a review of timing on motor recovery after nerve transfer in tetraplegia Arum Sudanti	
	Lived experience with implanted upper extremity neurotechnology: how individuals with spinal cord injury make meaning of technology use and clinical trial participation Anne Bryden		16:54	Beyond the 12-month rule: a meta-analysis of early versus delayed nerve transfer on motor recovery in tetrahand surgery Arum Sudanti	
	Leveraging transcutaneous spinal stimulation to improve upper extremity function in chronic cervical spinal cord injury Rebecca Martin		17:00	Discussion	
	Cortical reorganisation following cervical spinal cord injury Rowan Boyles		17:10	Close	
17:30	Free papers				
	17:30	Supinator to AIN nerve transfer, outcomes for grasp and pinch reconstruction Justin Easton paper			
	17:36	Nerve versus tendon transfers for elbow extension restoration: a systematic review Kyle Chepla			
	17:42	Is time since injury relevant to strength gains in reinnervated muscles with preserved lower motor neuron after nerve transfer in tetraplegia? Jefferson Dorneles			
	17:48	When upper limb reconstructive surgery is worth it in high-level tetraplegia: A 24-month longitudinal case series Josée Dubois			
	17:53	Discussion			
18:00	Close				

08:30	Registration		
09:00	WATERSIDE THEATRE	NORMAN BRAGG STUDIO	
	Pre-congress day 1 updates Rhaguv Bhasin		
09:30	Spasticity Chairs: Wee Lam & Kitty Wu		
	Guttmann Eva Loeffler and Mark Loeffler		
	From vision to reality: journey to the World Tetrahand Congress at Stoke Mandeville Andreas Gohritz		
	Spasticity in SCI: current understanding and contemporary management Caroline Leclercq		
	Rehabilitation approaches to spasticity management in SCI		
	Functional reconstruction of the spastic hand in tetraplegia Austin Hembd		
	Discussion		
11:00	Refreshment break and exhibition		
11:30	Extremes Chair: Sabrina Koch-Borner	Free papers: General	
	Management of higher level injuries: IC0-2 Simon Pickard	11:30	Expected outcomes and influencing factors after reconstructive hand surgery in tetraplegia Therese Ramström
		11:36	Understanding non-eligibility for surgery: an interdisciplinary perspective Geraldine Jacquemin

	WATERSIDE THEATRE	NORMAN BRAGG STUDIO	
	Updating the ICSHT to ICSHT 2 Hannes Granberg	11:42	The changing face of cervical SCI: What early upper limb function really looks like today Johanna Wangdell
		11:48	A systematic review of outcome measures for upper extremity reconstructive surgery in tetraplegia: building a framework for standardised outcomes reporting Noah Oiknine
	Great expectations: barriers to nerve generation and how we might overcome them Akira Wiberg	11:54	Functional reconstruction surgeries of the upper limbs in individuals with tetraplegia after traumatic spinal cord injury - tetrahand: epidemiological profile of the SARAH network rehabilitation hospitals/ Brazil Ana Cláudia Garcia Lopes
		12:00	Discussion
	When things don't go according to plan István Turcsány	12:10	Lived experience with implanted upper extremity neurotechnology: how individuals with spinal cord injury make meaning of technology use and clinical trial participation Kimberley Walsh
		12:16	Alternative for intrinsic muscle reconstruction: a case report Renata Paulos
		12:22	Usability evaluation of the T-GRIP thumb exoskeleton to support lateral pinch grasp in patients with tetraplegia Ellen Maas
		12:28	Lived experience partners and improving a nerve transfer tetrahand program Emily Krauss
		12:34	Discussion
13:00	Lunch and exhibition		
14:00	WATERSIDE THEATRE	NORMAN BRAGG STUDIO	
	Guttmann Memorial Lecture 2: The Biomechanics behind successful Tetrahand surgery Jan Fridén		
14:30	Round the World Chairs: Geraldine Jacquemin & Jeremy Simcock	Free papers: Nerve 2	
	Expanding knowledge and information delivery around improving upper extremity function after cervical spinal cord injury Jana Dengler	14:30	Pronator teres to flexor digitorum superficialis nerve transfer Hannes Granberg
	European perspective Sylvia Schibli	14:36	Results of 69 Supinator to Posterior Interosseus nerve transfers Hannes Granberg
	Challenges in tetrahand surgery in a developing country - an experience report: Belo Horizonte , Brazil Eliana Takahashi	14:42	What happens if you review all patients with a cervical spinal cord Injury? A review of the first 1000 patients reviewed by our service Sairah Naseem
	North American perspective Dominique Tremblay	14:48	Nerve transfers in tetraplegic hand surgery: innovation ahead of evidence? Richarda Boettcher
		14:54	Nerve and tendon transfer for elbow extension, technique and results in 6 cases Jose Manuel Mendez-Lopez

15:15	WATERSIDE THEATRE	
	Free papers	
	15:15	Reachable workspace in persons with cervical spinal cord injury and its relationship to scapular dyskinesia Sabrina Koch-Borner
	15:21	Grip and pinch strength following tendon-based reconstruction in tetraplegia: A systematic review Xinchen Gu
	15:27	Quantifying wrist extension donor deficits following the extensor carpi radialis brevis to anterior interosseous nerve (ECRB-to-AIN) nerve transfer in tetraplegia: What is the risk of compromising wrist tenodesis? Elie Boghossian
	15:33	Development and initial psychometric testing of the tetraplegic hand opening and closing (THOC) scale: A novel tool for clinical and research assessment Johanna Wangdell
	15:38	Discussion
15:45	Refreshment and exhibition	
16:15	Closing	
	Mystery discussion (audience vote)	
	Conclusions	
	Prize presentations	
	Announcement of World Tetrahand 2030	
	Closing remarks Wee Lam	