MRGO6202 Rehabilitation Technology in Orthopedics: Spinal Cord Injuries, Amputation (3 credit units) (MR Stream/Elective)

骨科康復科學與技術:脊髓損傷(截癱)及截肢康復

Module Head: Dr. Ronald Wong

Last update: 21/1/25

Session	1	2	3	4	5	6	7	8	9	10	11	12	Exam
Date	21/2(F)	28/2(F)	7/3(F)	14/3(F)	21/3(F)	28/3(F)	11/4(F)	12/4(S)	15/4(Tue)	24/4(Thu)	26/4	(Sat)	24/5 (S)
Time	1830-2130	1830-2130	1830-2130	1830-2130	1830-2130	1830-2130	1830-2130	1400-1700	1830-2130	1830-2130	1000-1300	1400-1700	pm
Venue	OLC	OLC	OLC	OLC	9/F SR	OLC	Gait Lab / OLC	9/F SR	OLC	OLC	OACC PWH	P&O PWH	TBC

2024/25

Content	Speakers	Session	note
Introduction of Orthopaedic Principles of Limb Amputation, including Re-amputation, Phantom Limb and the Management of Phantom Pain and Sensation	Dr. SM LEUNG (O&T, TPH)	1	21/2/2025 (F) OLC
Spinal Cord Injury and Associated Medical Problems	Dr. John WONG (O&T, PWH)	- 2	28/2/2025 (F)
2. Seating and Pressure Management Skills (including Wheelchair transfer skills)	Dr. Brian AU (OT, TPH)		OLC
Psychosocial Problems of Amputees & SCI, and their Management	Dr. Jeffery LIU (Senior Clin. Psychologist, TPH)	3	7/3/2025 (F) OLC
Application of Posture Monitoring Systems and CAD/CAM Systems in Orthopaedics Rehabilitation	Prof. MS WONG (P&O, Poly U)	4	14/3/2025 (F) OLC
Deep Tissue Injury and Clinical Management	Dr. Samson LIU (O&T, PWH)	5	21/3/2025 (F)
2. Stages of Rehabilitation and SCI Rehabilitation Programme in Kowloon Rehabilitation Centre	s of Rehabilitation and SCI Rehabilitation Programme in Kowloon Rehabilitation Centre Mr. Eddy CHEUNG (PT, KH)		9/F SR
SCI Orthoses and Robotic Exoskeleton Orthoses	Mr. KW CHEN (P&O, QMH)	6	28/3/2025 (F) OLC
Gait Laboratory Demonstration at PWH (1 hour) (Gait Lab, Rm 124007, 10/F, LCWCSB, PWH)	Dr. Joe LIANG (O&T, CUHK)	7	11/4/2025 (F)
Biomechanics of Ambulation & Gait Analysis (2 hours)	Prof. Kevin KWONG (PT, HKMU)		Gait Lab / OLC
<ol> <li>Transferring, Turning, Skin, Bowel and Bladder Care for Spinal Cord Injury Patients</li> <li>Overview of a Spinal Centre</li> </ol>	Ms. Annie HAU (APN, TPHDOR)	8	12/4/2025 (S) 9/F SR
Principle of Care of the Amputation Stump and Wound Management	Ms. WY KWOK (APN, PWH)	9	15/4/2025 (Tue) OLC
Rehabilitation for the Amputees: From the Basic to Advanced Technology	Prof. SW LAW (O&T, CUHK)	10	24/4/2025 (Thu) OLC
<ol> <li>Specialized Seating and Advanced Wheelchair Technology</li> <li>Wheelchair Practicum and Prescription</li> </ol>	Mr. Ajax LAU (P&O, PWH)	11	26/4/2025 (S) OACC PWH
<ol> <li>Prosthetics applications and Myoelectric Prosthesis (UL, LL and Hands)</li> <li>Assessment and Management of Amputation Stump (including stump caring for Prosthetic fitting)</li> </ol>	Mr. Giant TSE (P&O, AHNH)	12	P&O PWH
Written Examination			25/5/24 (S)

### Venue:

OLC: Orthopaedic Learning Center, 1/F, Li Ka Shing Specialist Clinic (North Wing), Prince of Wales Hospital, Shatin

9/F SR Seminar Room, 9/F, Main Block and Trauma Center, Prince of Wales Hospital

Gait lab: Gait Lab, Room 124007, 10/F, Lui Che Woo Clinical Sciences Building, Prince of Wales Hospital, Shatin

OACC PWH: (Wheelchair bank) Orthopaedic Ambulatory Care Center (Ward 5K), Day Treatment Block and Children Wards, Prince of Wales Hospital, Shatin

P&O PWH: P&O Department, G/F, Day Treatment Block and Children Ward, Prince of Wales Hospital, Shatin

#### **Brief Description:**

The applications of rehabilitation technology in spinal cord injury and amputation for musculoskeletal disorders.

康復技術在脊髓損傷、肌肉骨骼疾病和截肢中的應用。

#### **Learning Outcome:**

Students should be able to understand and apply:

- 1. Advances and developments of assistive devices for ambulation and daily activities;
- 2. Environmental design and modifications;
- 3. Causes and management of Spinal Cord Injury;
- 4. Causes of amputation and prosthetic needs.

## Attention: University policy and regulations on honesty in academic work

Attention is drawn to University policy and regulations on honesty in academic work, and to the disciplinary guidelines and procedures applicable to breaches of such policy and regulations. Details may be found at <a href="http://www.cuhk.edu.hk/policy/academichonesty/">http://www.cuhk.edu.hk/policy/academichonesty/</a>.

With each assignment, students will be required to submit a signed declaration that they are aware of these policies, regulations, guidelines and procedures.

- In the case of group projects, all members of the group should be asked to sign the declaration, each of whom is responsible and liable to disciplinary actions, irrespective of whether he/she has signed the declaration and whether he/she has contributed, directly or indirectly, to the problematic contents.
- For assignments in the form of a computer-generated document that is principally text-based and submitted via VeriGuide, the statement, in the form of a receipt, will be issued by the system upon students' uploading of the soft copy of the assignment.

Assignments without the properly signed declaration will not be graded by teachers.

Only the final version of the assignment should be submitted via VeriGuide.

The submission of a piece of work, or a part of a piece of work, for more than one purpose (e.g. to satisfy the requirements in two different courses) without declaration to this effect shall be regarded as having committed undeclared multiple submissions. It is common and acceptable to reuse a turn of phrase or a sentence or two from one's own work; but wholesale reuse is problematic. In any case, agreement from the course teacher(s) concerned should be obtained prior to the submission of the piece of work.

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## **Assessment:**

# 1. Written Examination (100%)

The written Examination is to prepare students for qualifying for Basic Concepts of Spinal Cord Injury and Amputation. A good attendance is prerequisite.

Date of Assessment: 24/5/2025 (Sat) Format: Face-to-Face Examination Time: to be confirmed

# **Speakers:**

Prof. Ronald Wong MB ChB (CUHK), MRCSEd, PhD (CUHK), FHKCOS, FHKAM (Orthopaedic Surgery), FRCSEd (Orth)	эреакегэ.	
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