MRGO5101: Principles, Current Diagnosis & Management for Musculoskeletal Disorders, Aging and Degeneration (4 credit units) **2026/27**

骨骼肌肉疾病、老年化及退化原則、診斷及治療

Module Head: Dr. Michael Ong ***Last update: 12/8/2026***

Session	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Exam
Date	9/9(W)	16/9(W)	19/9(S)	23/9(W)	30/9(W)	7/10(W)	14/10(W)	21/10(W)	28/10(W)	4/11(W)	6/11(F)	11/11(W)	13/11(F)	18/11(W)	20/11(F)	25/11(W)	12/12(S)
Time	1830-2130		AM/PM		1830-2130												PM
Venue	WNY406	WNY406	A Lab	WNY406	WNY406	WNY406	WNY406	WNY406	WNY406	WNY406	YIA402	WNY406	YIA402	WNY406	YIA402	WNY406	(Tbc)

Theme	Content	Speakers	Session	Date
Current Diagnosis of Ortho Problems	Biophysical interventions: vibration, LIPUS, and Shock Wave	Prof. Louis CHEUNG	1	9/9/2026 (W)
	Radiological investigations	Dr. Kenneth CHEUNG	2	16/9/2026 (W)
	Functional anatomy in Orthopaedic rehabilitation (with anatomy lab visiting)	Dr. Josephine LAU	3	19/9/2026 (S) CUHK Anatomy Lab 1000-1300 / 1400-1700
	Application of Bone Densitometry in Bone Health Research Osteoporosis and Assessment of Bone density: DEXA, pQCT, ultrasound bone densitometry	Ms. Vivian HUNG	4	23/9/2026 (W)
	Principles of Physical Diagnosis of musculoskeletal problems; and Clinical Diagnostic Skills for Common MSK problems	Dr. Ashley WONG	13	13/11/2026 (F)
MSK Disorders, Special conditions, Aging and Degeneration	Sarcopenia, Osteoporosis and Aging	Dr. N ZHANG	5	30/9/2026 (W)
	Upper limb	Dr. WL TSE	6	7/10/2026 (W)
	Arthritis	Dr. Dennis WONG	7	14/10/2026 (W)
	Arthroscopy & Minimal invasive surgery for Joint Injuries and Soft tissue Injuries and Healing	Dr. Michael ONG	8	21/10/2026 (W)
	Injuries and fragility fractures	Dr. N TANG	9	28/10/2026 (W)
	Infection, Tumor and other bone diseases	Dr. WK CHIU	10	4/11/2026 (W)
	Foot and Ankle	Dr. Esther MW CHOW	11	6/11/2026 (F)
	Spine	Dr. YC WONG	14	18/11/2026 (W)
Principles of Rehab.	Assessment of Function & Impairment, and Assessment of Satisfaction & Outcomes	Dr. Brian AU	12	11/11/2026 (W)
	Models of Rehabilitation for Musculoskeletal Disorders	Mr. Alexander WOO	15	20/11/2026 (F)
	Student Presentation (Group Presentation)	Assessors: Dr. Raymond NG Dr Adam LAU	16	25/11/2026 (W)
	Written Examination			12/12/2026 (S)

Venue:

A Lab	Anatomy Laboratory, LG/F, Choh-Ming Li Basic Medical Sciences Building, CUHK
WMY406	Room WMY406, Wu Ho Man Yuen Building, CUHK Campus, Shatin
YIA402	YIA402, Yasumoto International Academic Park, CUHK Campus, CUHK

Brief Description:

An introduction to the current techniques and technologies for diagnosis of musculoskeletal disorders and the principles of management, with coverage over non-operative means, alternative medicine, and also principles of surgical intervention especially for arthritis and aged problems.
介紹診斷和治療骨骼肌肉疾病的最新科技和技術，包括非手術治療、另類醫學療法，與及手術治療原理，尤其針對骨關節炎和老化疾病。

Learning Outcome:

The student should be able to understand and apply:
1. Current techniques and technologies for diagnosis of musculoskeletal disorders
2. The principles of management, with coverage over non-operative means and alternative medicine
3. Principles of surgical intervention especially for arthritis and aged problems.

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 http://www.cuhk.edu.hk/policy/academichonesty/.

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.

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Assessment:

1. Student Presentation (20%)

Students will be assigned into groups of 5-6 students, with more than 2 professionals in each group.

Group	Topic	Students					
1		AU Audris Shun Kiu	CHAN Kin Hei Ken	KWONG Tin Nok Desmond	WU Jiaye Evelyn	YU Hiu Laam Jessica	
2		CHAN Cheuk Ling Tree	CHAN Yuet Ning Chloe	CHAU Lok Tao Rachel	LAM Chi Chuen Jacky	LEE Ka Yau Viena	SUN Ruoyu
3		CHAN Yuet Tung	LEUNG Man Fung Matthew	LI Chak Sum Sam	MA Hin Ting Claire	TAM Anthony Yu Hei	
4		CHI Ho Tin Leo	LIU Hongrui	WONG Lok Yin Gabriel	WONG Yan Hang Viola	YEUNG Sau Ling Sharon	
5		YU Wing Yan Samuel	CHU Wai Ki Nicole	LAM Ka Ki Lynn	SIN Wing Ki Miki	WANG Ki Ki Kiki	YUNG Jeff Laurent
6		CHAN Shu Ching Casey	GUAN Huici	LO Chiu Yui Tody	PAN Guwei Celine	WAI Yeuk Ying Hazel	
7		LI Zhenjie Jeffery	LO Kok Fung Benny	TSUI Dylan Ethan	WAI Kei Chun Adrian	YUEN Wai Yan Vivian	
8		CHU Hoi Ning Marie	LAU Yan Hei Gordon	TAM Nok Hin Alvin	TANG Wai Kei Vicky	YE Yurui Rachel	
9		CHENG Ngai Long	CHIU Sum Yu Lily	LAU Lok Man Anson	TO Ka Yi Fiona	WU Cindy	
10		CHENG Hiu Wa Eunice	CHENG Wing Shan Ashley	HO Chi Long Gordon	LEE Chor Huen Janice	WONG Wai Laam Tammy	

Each group will present for 10 minutes (plus 5 minutes Q&A) in session 15. Here below are the topics for your preview:

	Topics
I.	Radiological investigation used in musculoskeletal medicine
II.	Biophysical intervention in musculoskeletal medicine
III.	Current guideline in the management of fragility hip fractures
IV.	Overview of patient reported outcome measurements (PROM)
V.	Current guideline in the management of osteoporosis
VI.	Scoliosis exercise - what's the evidence
VII.	Application of 3D printing in Orthosis
VIII.	Tele rehabilitation - current practice and guideline
IX.	Application of MSK ultrasound in rehabilitation
X.	Sports injury: the pathway to return to play

More details and the topics will be released in session 1 ***Presentation date: 25/11/2026 (Wed)***

2. Written Examination (80%)

The written Examination covers all the contents of the lectures.

Date: 12/12/2026 (Sat) Time: 14:00 – 16:00 (*tbc*)

Venue: CUHK Campus *(tbc)*

Speakers:

Dr. Michael ONG (module head)	MBChB, MRCS, FRCS (Orth) Clinical Associate Professor, Department of Orthopaedics and Traumatology, The Chinese University of Hong Kong
Professor Louis CHEUNG	BSc, PhD, Postgrad Cert (Biostatistics) Professor (non-clinical), Department of Orthopaedics & Traumatology, The Chinese University of Hong Kong
Dr. Kenneth CHEUNG	BSc, MB BS, PhD (UCL), FRCR Radiologist, Department of Interventional Imaging and Radiology, Prince of Wales Hospital / North District Hospital
Ms. Vivian HUNG	M.Phil (CUHK), B.Sc (Hon)(University of Toronto) Research Associate, Department of Orthopaedics and Traumatology, The Chinese University of Hong Kong
Dr. Josephine LAU	BSc (Human Biology), MPhil (Anatomy), PhD (Ophthalmology and Visual Sciences) Lecturer, Department of Biomedical Sciences, The Chinese University of Hong Kong
Dr. Ashley WONG	MBChB Resident, Department of Orthopaedics and Traumatology, Prince of Wales Hospital
Dr. WL TSE	MBChB(CUHK), FRCSEd, FRCSEd(Orth), FHKCOS, FHKAM (Orthopaedic Surgery) Consultant, Department of Orthopaedics and Traumatology, Prince of Wales Hospital
Dr. N ZHANG	BSc (SDU), MSc (SJTU), PhD (CUHK) Assistant Professor, Department of Orthopaedics and Traumatology, The Chinese University of Hong Kong
Dr. YC WONG	MBChB(CUHK), FRCS(Edin), FRCS Ed (Orth), FHKCOS, FHKAM (Ortho Surg) Consultant, Department of Orthopaedics and Traumatology, Prince of Wales Hospital
Dr. Dennis WONG	MBBS (H.K.), MRCSEd, FRCSEd (Ortho.), FHKCOS, FHKAM (Orthopedic Surgery) Specialist, Department of Orthopaedics and Traumatology, Prince of Wales Hospital
Dr. N TANG	MBChB(CUHK), FRCS(Edin), FRCSEd(Orth), FHKCOS, FHKAM (Orthopaedic Surgery) Consultant, Department of Orthopaedics and Traumatology, Prince of Wales Hospital.
Dr. Esther MW CHOW	MBChB (CUHK), FHKAM (Ortho Surg) Associate Consultant, Department of Orthopaedics and Traumatology, Prince of Wales Hospital
Dr. WK CHIU	MB BS (HKU); MRCSI, FRCSEd(Orth), FHKCOS, FHKAM (Orthopaedic Surgery) Staff Consultant, St. Paul Hospital
Professor Brian AU	PhD (Rehab Sciences), MSc (Health Care), PDOT, FCHSE (Australia) Professor of Practice, Department of Rehabilitation Sciences, The Hong Kong Polytechnic University
Mr. Alexander WOO	MBA in Health Care (CUHK), MMedSc. (HKU), BSc. Physiotherapy (PolyU), Prof. Dip. Acupuncture (HKBU) Principal Physiotherapist, CUHK Medical Centre
Dr. Raymond NG	MBChB, FHKAM (Orthopaedic Surgery) Associate Consultant, Department of Orthopaedics Rehabilitation, Tai Po Hospital
Dr. Adam LAU	MBBS, BSc, MRCSEd, FRCSEd (Orth), FHKCOS, FHKAM (Orth) Clinical Assistant Professor, Department of Orthopaedics and Traumatology, The Chinese University of Hong Kong