

THE HONG KONG 香港醫訊 MEDICAL DIARY

VOL.26 NO.7 July 2021

Sports Medicine



Reach more

repair more

FAST-FIX FLEX enables all-zone all-inside meniscal repairs empowering surgeons to treat previously inaccessible tears*1-3

Enhance Accessibility with needle and shaft modifications to access mid-body and anterior zones accounting for over 40% of tears*1,2,4.

Preserve Anatomy with a ~25% smaller needle insertion area and a ~20% stronger repair*^5,6

Increase Reliability with implant deployment you can hear, feel and see¹. Go to AllTearsAllRepairs.com.

SmithNephew



FAST-FIX FLEX Meniscal Repair System





*Compared to predicate device +in stable adult knees ^as demonstrated in biomechanical testing References 1. Smith+Nephew 2021.Validation, FAST-FIX FLEX. Internal Report. 15010267 Rev A. 2. Smith+Nephew 2021.Validation, FAST-FIX FLEX. Attachment B. Internal Report. 15010267 Rev A. 3. Smith+Nephew 2021.FAST-FIX FLEX. Surgeon Surveys. Internal Memo. 4. Metcalf MH, Barrett GR. Prospective evaluation of 1485 meniscal tear patterns in patients with stable knees. Am J Sports Med. 2004;32(3):675-680. 5. Smith+Nephew 2021.Competitive, FAST-FIX FLEX Dimensional Analysis. Internal Report. 15010919 Rev A. 6. Smith+Nephew 2020. Biomechanical Testing, FAST-FIX FLEX. Internal Report. 15010180 Rev A.

Contents

Editorial	
Out of Your Comfort Zone in Sports Medicine: The Facts & Fictions Prof Patrick Shu-hang YUNG	2
Medical Bulletin	
■ Why is My Wrist Painful after Sports? Dr Clara Wing-yee WONG CME	4
■ MCHK CME Programme Self-assessment Questions	11
■ Dance Injuries in the Foot and Ankle Dr Samuel KK LING	12
Injection Therapy in Sports Injuries, Where Are We? Where Are We Headed? Dr George YK LAW	15
■ Taking Your Practice on to the Field Dr Jonathan YUEN	19
■ The Revelation: Myths of a Doctor's Daily Routine at the HKSI Dr Bryan Siu-fung LAU	22

Dermatology Quiz	
■ Dermatology Quiz Dr Chi-keung KWAN	9
Medical Diary of July	29
Calendar of Events	30



Scan the QR-code

To read more about The Federation of Medical Societies of Hong Kong

Disclaimer

Dr Lobo HT LOUIE

The Health Benefits of Great Outdoors

All materials published in the Hong Kong Medical Diary represent the opinions of the authors responsible for the articles and do not reflect the official views or policy of the Federation of Medical Societies of Hong Kong, member societies or the publisher.

26

Publication of an advertisement in the Hong Kong Medical Diary does not constitute endorsement or approval of the product or service promoted or of any claims made by the advertisers with respect to such products or services.

The Federation of Medical Societies of Hong Kong and the Hong Kong Medical Diary assume no responsibility for any injury and/or damage to persons or property arising from any use of execution of any methods, treatments, therapy, operations, instructions, ideas contained in the printed articles. Because of rapid advances in medicine, independent verification of diagnoses, treatment method and drug dosage should be made.

The Cover Shot



The bird has for centuries fascinated mankind for its ability to fly, as if serving as a messenger between earth and heaven. The phoenix was a royal emblem during the Shang and Zhou Dynasty. The Eagle is used by many countries as a national logo! Some birds possess amazing athletic abilities. For instance, the peregrine falcon can fly at a speed up to 270 miles/hour while swooping down on its prey.

The bird shown here is the Lilac Breasted Roller (Caracas Caudatus) which is the national bird of Botswana, although it is found in many African countries like Tanzania, Zambia, etc.

Despite its small size, weighing no more than 4 oz, this roller is considered one of the most beautiful birds in the world, owing to its pastel plumage, striking marks and long tail streamers. This bird is strikingly colourful with a total of 10 colours.

A tiny bird like this roller perching on a tree branch is not difficult to capture in a photo, but to 'freeze' it in flight showing its intricately colourful ventral side and fully spread wings requires the right moment, patience, quite a bit of luck, and of course, the right kind of camera and telephoto lens. To have the opportunity to see and to take photos of such wildlife in their natural habitat is the reason why many people are so fond of making trips to Africa, over and over again!



MD (Alberta, Canada), FRCP (C), FHKAM(MED), DABIM, DABIM(CV) Specialist in Cardiology

Published by

The Federation of Medical Societies of Hong Kong

EDITOR-IN-CHIEF

Dr CHAN Chun-kwong, Jane 陳真光醫生

GUEST ISSUE CHIEF EDITOR

Prof CHEUNG Man-yung, Bernard 張文勇教授

EDITORS

Prof CHAN Chi-fung, Godfrey 陳志峰教授 (Paediatrics) Dr CHAN Chi-kuen

(Gastroenterology & Hepatology) 陳志權醫生

Dr KING Wing-keung, Walter (Plastic Surgery) 金永強醫生

Dr LO See-kit, Raymond 勞思傑醫生 (Geriatric Medicine)

EDITORIAL BOARD

Dr AU Wing-yan, Thomas

區永仁醫生 (Haematology and Haematological Oncology)

Dr CHAK Wai-kwong

翟偉光醫牛 (Paediatrics) Dr CHAN Hau-ngai, Kingsley

陳厚毅醫牛

(Dermatology & Venereology) Dr CHAN, Norman

陳諾醫生 (Diabetes, Endocrinology & Metabolism)

Dr CHEUNG Fuk-chi, Eric (Psychiatry)

張復熾醫生

Dr CHIANG Chung-seung

蔣忠想醫生 (Cardiology)

Prof CHIM Chor-sang, James 詹楚生教授 (Haematology and Haematological Oncology)

Dr CHONG Lai-yin

莊禮腎醫生 (Dermatology & Venereology)

Dr CHUNG Chi-chiu, Cliff 鍾志超醫生 (General Surgery)

Dr FONG To-sang, Dawson

方道牛醫牛 (Neurosurgery)

Dr HSUE Chan-chee, Victor

(Clinical Oncology) 徐成之醫生

Dr KWOK Po-yin, Samuel 郭寶賢醫生 (General Surgery)

Dr LAM Siu-keung

林兆強醫生 (Obstetrics & Gynaecology)

Dr LAM Wai-man, Wendy 林慧文醫生 (Radiology)

Dr LEE Kin-man, Philip

李健民醫生 (Oral & Maxillofacial Surgery)

Dr LEE Man-piu, Albert 李文彪醫生 (Dentistry)

Dr LI Fuk-him, Dominic

(Obstetrics & Gynaecology) 李福謙醫生

Prof LI Ka-wah, Michael, BBS 李家驊醫牛

(General Surgery) Dr LO Chor Man

盧礎文醫生 (Emergency Medicine)

Dr LO Kwok-wing, Patrick

盧國榮醫生 (Diabetes, Endocrinology & Metabolism) Dr MA Hon-ming, Ernest

馬漢明醫生 (Rehabilitation)

Dr MAN Chi-wai

文志衛醫生 (Urology) Dr NG Wah Shan

伍華山醫生 (Emergency Medicine)

Dr PANG Chi-wang, Peter

彭志宏醫生 (Plastic Surgery) Dr TSANG Kin-lun

曾建倫醫生 (Neurology)

Dr TSANG Wai-kay 曾偉基醫生

(Nephrology) Dr YAU Tsz-kok

游子覺醫生 (Clinical Oncology)

Prof YU Chun-ho, Simon

余俊豪教授 (Radiology)

Dr YUEN Shi-yin, Nancy 袁淑賢醫生 (Ophthalmology)

Design and Production

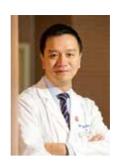
A-PRO MULTIMEDIA LTD www.apro.com.hk

Out of Your Comfort Zone in Sports Medicine: The **Facts & Fictions**

Prof Patrick Shu-hang YUNG

Chairman, Department of Orthopaedics & Traumatology, Faculty of Medicine, CUHK President, Hong Kong Association of Sports Medicine & Sports Science (HKASMSS)

President, Asian Federation of Sports Medicine (AFSM)



WHAT IS SPORTS MEDICINE?

Sports Medicine is a subspecialty in medicine that deals with exercise & physical fitness, as well as treatment and prevention of injuries related to exercise and sports participation. The scope of service already highlights the characteristics of Sports Medicine, which is indeed involving skills and knowledge from multidiscipline to work for the best benefit of human beings in sports participation, and not just limited to dealing with sports injuries.

In some developed countries, Sports Medicine is a recognised medical specialty (with similar training and standards to other medical specialties), whereas, in many other countries/regions, including Hong Kong, it is a special interest area but not an actual specialty. It can broadly also refer to doctors and many other paramedical practitioners who very often work together as a team to ensure the best fitness, performance, injury prevention, treatment & recovery for those who participate in sports and exercise. Very often, for a well-established Sports Medicine team, members should include Sports Physicians, Orthopedic Surgeons, Certified Sports/Athletic Trainers, Sports Physiotherapists, Sports Scientist (e.g. Sports Dietitians, Psychologist, Physiologist, Bio-mechanists.....). Usually, the medical doctor is the leader and chief coordinator to lead the team to excel for the athletes and

DEVELOPMENT OF SPORTS MEDICINE IN HONG KONG & AROUND THE WORLD

Sports Medicine societies were first established in Switzerland (1922) followed by Germany (1924), France (1929) and Italy (1929). Hong Kong Association of Sports Medicine & Sports Science (HKASMSS)² was established in 1988 and registered under the Sports Federation & Olympic Committee of Hong Kong as one of the National Sports Association. The Association is also a member of The International Federation of Sports Medicine (FIMS) and the Asian Federation of Sports Medicine (AFSM). HKASMSS aims to promote and advance the practice, education and research of medicine and science in relation to sports and exercise, and has undertaken much promotional work including organising conference, seminars and practical workshops to train more medical practitioners and to equip them with relevant knowledge and skills in different areas of Sports Medicine. HKASMSS also publishe its own journal and promote scientific research on Sports Medicine and provide medical service to the sporting, medical and scientific communities. It is important to note that Sports Medicine is not yet a medical specialty in Hong Kong; Sports Medicine has remained a special interest area with different medical professionals contributing their own strength and expertise in the development of this science.

Sports Medicine was first established as a medical specialty in Italy, the first country, in 1958. After more than 60 years of development, Sports Medicine is now a recognised medical specialty in over 30 countries worldwide and a recognised subspecialty in some other countries/cities.¹ The European Union of Medical Specialists has defined necessary training requirements for establishing the specialty of Sports Medicine in specific European countries. It is a goal of the European Federation of Sports Medicine Associations (EFSMA) to eventually establish Sports Medicine as a specialty in all European countries.1 For example, European templates for Sports Medicine specialisation generally involve four years of specialist training, including internal medicine, with special emphasis on Cardiology, Emergency medicine and clinical nutrition, Orthopedics and Traumatology, as well as Physical and Rehabilitation medicine. Fellowship programmes were impletemented all over Europe in recognised Sports Medicine centres for training. Similarly, in Australia and New Zealand, Sport and Exercise Medicine is a standalone medical specialty, with the Australasian College of Sport and Exercise Physicians being one of Australia's 15 recognised medical specialty Colleges.¹

However, not necessaily all the developed countries offer a recognised Sports Medicine Specialty. Such recognition has not yet occurred in some of the countries with very strong pedigrees in academic publication in the Sports Medicine field, including the U.K., Sweden, Norway, South Africa or even the U.S.A..1 Sports Medicine indeed is only a subspecialty field rather than a standalone specialty in the U.S.A. and Canada, very much similar to Hong Kong. Taiwan, Singapore, Thailand, India and Iran have been working on the development of a distinct Sports Medicine specialty for years, but until now, there is no country in Asia with well established and standalone medical specialty in Sports Medicine, which largely functions as a subspecialty field. There are quite a number of Asian countries/cities (India, Taipei, Singapore, Tehran...) providing different postgraduate education programmes for the training of Sports Medicine practitioners, including the Master of Science programme in Sports Medicine & Health Science run by The Chinese University of Hong Kong (CUHK) since 2004. The CUHK programme is one of the oldest and most reputable post-graduate programmes in the world, having already nurtured over 800 graduates.

WALKING OUT OF THE COMFORT ZONE FOR MODERN DAY SPORTS MEDICINE DOCTORS!

As already pointed out earlier, in Hong Kong right now, Sports Medicine is not a medical specialty, but a special interest area with doctors mainly coming from Orthopaedics, Cardiology, Emergency medicine, family doctors or other specialties, along with a sizeable group of physiotherapists regularly contributing to this field. The majority of this group of experts have had in-depth training and knowledge acquisition in Musculoskeletal medicine, particularly in the treatment, rehabilitation, and prevention of sports injuries; they regularly take care of sports injuries of individual players or teams. Some other experts, a relative minority, are dealing with illnesses, such as cardiac disease, asthma or diabetes, that may affect the health and physical performance of individual players during sports participation.

As mentioned earlier, most of the doctors with interests in Sports Medicine in Hong Kong are focusing on dealing with musculoskeletal injuries, particularly those injuries involving common areas such as the knee, ankle, and shoulder. However, along the rapid development of "fashions" of different kinds of new sports activities in Hong Kong in recent years, there are more and more

sports injuries involving those "No man's land" areas, such as the fingers, wrists, elbows, feet and toes. The increasing incidents of this new group of injuries have required our Sports Medicine practitioners to be equipped with the appropriate knowledge and skills to handle and to provide the best optimal and appropriate care. There is also an increasing trend in application of alternative therapies or application of biologics in tackling sports injuries; in particular, the different types of injection therapies have become one of the hottest topics in Sports Medicine in recent years. I do believe that there is a need to explore new science for tackling some difficult sports injuries. Nevertheless, we definitely need to understand and to be able to differentiate all the "Facts" from the "Fictions", demanding vigorous backing up with scientific evidence and evidence-based medicine, whenever we consider new treatment regimes.

In addition to managing sports injuries, modern-day Sports Medicine doctors should also work to improve the performance of the athlete, as well as ensuring their safety while performing the sports activity. The latter work includes assessment of medical fitness before participating in sports, injury risk assessment, implementation of sports-specific injury prevention programmes, as well as taking their practice from the consultation room on to the sports field. Moreover, Sports Medicine doctors should also very often promote the benefits of regular physical activities by delivering concepts of "Exercise is Medicine" and physical activities interventions, including a healthy life style and diet, to prevent chronic illness such as hypertension & diabetes, minimising the burden of disease directly attributable to physical inactivity.

FUTURE DEVELOPMENT OF SPORTS MEDICINE IN HONG KONG

Sports Medicine, in itself as a specialty in medicine, is yet to be realised in Hong Kong. We have good models from other countries, particularly from Europe, to learn and take reference from. But to be able to do so in Hong Kong in response to to the increasing demands and needs, relevant training, accreditation, career prospect and most importantly, government policies are all very important elements to be established or enhanced. To prepare for the upcoming challenges and opportunities, Sports Medicine doctors in the modern era should also be multi-talented and prepared to walk out of their current comfort zone with focus mainly on taking care of sports injuries. They should ideally be all rounded, with comprehensive skills and knowledge in Sports Medicine and having very good communication skills. To steer the Sports Medicine team, they should also be well connected to others including doctors of other specialties, physiotherapists, sports dietitians and psychologists, and other sports scientists, so as to work out the best advice for their clients, inclusive of both professional sportsmen and amateur folks who are participating in sports just for wellness.

References

- WikiMD's free health, diet & wellness encyclopedia http://www.wikimd.org/wiki/Sports_medicine
- Hong Kong Association of Sports Medicine & Sports Science (HKASMSS) https://www.hkasmss.org.hk/
- 3. Exercise is Medicine Hong Kong http://www.eim.hk/

Why is My Wrist Painful after Sports?

Dr Clara Wing-yee WONG

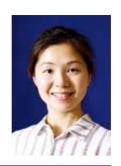
MB ChB(CUHK), MRCSEd, FRCSEd(Orth), FHKCOS, FHKAM(Orthopaedic Surgery)

Consultant Orthopaedic Surgeon, CUHK Medical Centre

Clinical Professional Consultant, Department of Orthopaedics and Traumatology, Faculty of Medicine,

The Chinese University of Hong Kong Associate Professor of Practice, Department of Orthopaedics and Traumatology, Faculty of Medicine, The Chinese University of Hong

The Chinese University of Hong Kong
Commission Member, Hong Kong Association of Sports Medicine and Sports Science



Dr Clara Wing-vee WONG

This article has been selected by the Editorial Board of the Hong Kong Medical Diary for participants in the CME programme of the Medical Council of Hong Kong (MCHK) to complete the following self-assessment questions in order to be awarded 1 CME credit under the programme upon returning the completed answer sheet to the Federation Secretariat on or before 31 July 2021.

INTRODUCTION & EPIDEMIOLOGY

The wrist is a complex joint. It consists of 15 pieces of bone, more than 25 articulations, and more than 40 named ligaments. There are 24 tendons, two major blood vessels, two major nerves and numerous cutaneous nerves crossing and sophistically constituting the wrist. Injury to any of the above structures commonly happens in sports.

There are no epidemiological data on sports injuries related only to the wrist region. Previous studies revealed that approximately 25% of all sports-related injuries involve the hand and wrist^{1,2}. The present incidence should be higher as a result of the increased activity level of the general population, and as wrist injuries are better understood and identified in recent years. Among all the sports-related wrist injuries, distal radius fracture is the most easily recognised disease. It accounts for 23% and 17% of all sports-related fractures in adolescents and adults, respectively.3 Fall on an outstretched hand or high energy collisions in any sport explains the fractures. They are common with badminton, basketball, gymnastics and ice-skating, while soccer contributes to 20% to 50% of distal radius fractures sustained during the sport.4-6 In Hong Kong, soccer has made up the majority of emergency attendance with sports injury.7 Distal radius fracture produces acute pain, swelling, bruising and even deformity, which prompts the sports players to seek medical attention immediately. X-ray appearance is usually obvious. A delay in treatment from missed diagnosis is therefore rare.

However, many players are annoyed by various kinds of wrist pain for which the diagnosis is not as obvious. Many wrist problems are initially disregarded and result in a delay in treatment with consequential impacts and complications. Although the epidemiology of sports-related wrist injuries is lacking, the high prevalence rate of up to 73% for wrist pain and 28% for overuse wrist injury, and the incidence rate of up to 9% for wrist pain and 26% for overuse wrist injury in young athletes shown in a systemic review published in 2015 signify that wrist problem in sports should be a notable issue for the whole population.⁸

CAUSES OF WRIST PAIN AFTER SPORTS

Causes of wrist pain after sports are numerous, as shown in Table 1. Wrist pain that has happened after sports could have resulted from (1) a direct impact during an acute injury, e.g. fall, collision, sudden forceful twisting/rotation/extension/flexion/radial deviation/ulnar deviation, or from (2) an overuse injury, e.g. repetitive wrist loading in different directions. The following is an overview of the common causes of wrist pain (besides distal radius fracture) sustained in sports.

RADIAL WRIST PAIN

A. Scaphoid Fracture

Scaphoid fracture is the commonest carpal fracture, accounts for 60 - 90% of all carpal fractures. ^{9,10} It has been estimated that nearly 1% of college football players will sustain a scaphoid fracture per year. ¹¹ Falling onto an outstretched hand, usually with the wrist in extension and radial deviation such that the scaphoid becomes more prominent and hits onto the floor, would result in a fracture. A direct blow to the wrist, such as being hit by a baseball, can also fracture the scaphoid.

Approximately 75% of the surface of the scaphoid is covered with cartilage. 12,13 70 - 80% of the scaphoid, and the whole proximal pole vascularity are supplied from branches of the radial artery entering through the distal dorsal ridge.14 The large volume of bone dependent on a single intra-osseous vessel poses a high risk of avascular necrosis and fracture nonunion. 15 Since the vascularity of the scaphoid is tenuous, bruising and pain after the fracture may not be obvious enough to prompt the players to seek care. It is not uncommon to find a scaphoid fracture developed into nonunion with a remote history of a wrist sprain. An acute scaphoid fracture is sometimes not easily visualised on X-rays because of its peculiarly twisted peanut-like shape. Missing a diagnosis poses a devastating injury to athletes and even ends the sports career for the combat sports players. 16

Exquisite tenderness in the anatomical snuffbox or in axial loading of the thumb should raise the suspicion of a scaphoid fracture. X-rays of the wrist include



Table 1: Examples of the causes of wrist pain from sports. (Developed by author)				
REGION OF WRIST PAIN	Structure	Type of Injury	Examples of Related Sports	
RADIAL	Bone	Distal radius fracture	- Fall/Direct collision/Axial loading in any sports	
		Scaphoid fracture	- Combat sports	
		Metacarpal base fracture/Subluxation		
		Bennett's fracture, Rolando fracture	- Fall/Direct collision/Axial loading in any sports	
		Trapezium fracture, Trapezoid fracture	- Combat sports - Handlebar injury	
	Joint/ Ligament	Radiocarpal ligament tear (usually with ganglia at the volar radial wrist)	- Gymnastics, Yoga, Pilates	
		Radial styloid Impingement Syndrome	- Golf, Gymnastics	
	Tendon	DeQuervain's disease	- Bowling, Golf, Rowing, Racket sports, Rope skipping	
		Intersection syndrome (Oarsman's wrist)	- Rowing, Weight lifting, Weight pulling, Rope skipping	
		Flexor Carpi radialis tendonitis	- Golf, Tennis, Volleyball, Water polo	
	Nerve	Wartenberg's syndrome		
	TVCTVC	warenberg's syndronic	 Direct contusion just proximal to the protective gloves in Hockey, Lacrosse, American football Rowing, Table tennis 	
ULNAR	Bone	Triquetral fracture	- Fall in any sports	
		Ulnar styloid fracture		
		Hook of hamate fracture	- Golf, Squash, Gymnastics, Under-water rugby, other racket sports	
		Pisiform fracture	- Fall in any sports, in-line skating, Racket sports, Volleyball	
	Ligament	TFCC (Triangular Fibrocartilage Complex)	- Racket sports, Golf, Baseball, Gymnastics, Yoga, Karate, Kendo, Kickboxing, Martial arts and other combat sports	
		Lunotriquetral instability	- Fall in any sports	
	Joint	Ulnar impaction syndrome	- Weight lifting, Push-up, Gymnastics, Racket sports	
		Ulnar styloid impaction syndrome	- Hockey, Ice-hockey, Gymnastics	
		DRUJ (Distal Radioulnar Joint) Arthritis		
			- Gymnastics, Tennis, Golf, Combat sports, Weight lifting	
		Pisotriquetral arthritis	- Golf, Tennis, Volleyball, Racket sports	
		Tirquetrohamate impingement	- American football, Hockey, Gymnastics, Weight lifting, Racket sports, Yoga	
	Tondon	Lunohamate impingement		
	Tendon	ECU (extensor carpi ulnaris) tendonitis	- Tennis, Golf, Rugby, Hockey	
		FCU (flexor carpi ulnaris) tendonitis	- Rugby, Squash, Badminton, Golf	
	Nerve	Guyon's canal syndrome	- Cycling, Weight Lifting, Hockey, Rock-climbing, Rowing, Swimming, Wheelchair athletics	
	Artery	Hypothenar hammer syndrome	- Tennis, Golf, Badminton, Hockey	
CENTRAL	Bone	Capitate fracture	- Fall in any sports	
		Lunate fracture		
		Kienbock's disease	- Gymnastics, Handball, American football, Push-ups	
	Ligament	Scapholunate dissociation	- Fall in any sports, American Football, Rugby, Kickboxing, Karate, other combat sports	
		DCSS (dorsal capsule scapholunate septum) injury	- Weight lifting, Gymnastics, Yoga, Pilates, Push-ups	
	Nerve	Carpal tunnel syndrome	- Cycling, Weight lifting, Hockey, Rock-climbing, Rowing, Swimming, Wheelchair athletics	
		Distal posterior interosseous nerve impingement syndrome	- Gymnastics, Weight lifting, American football, Yoga	





Dual LocksReliable Protection



Qinlock: the FIRST switch-control kinase inhibitor indicated for 4th-line treatment of advanced GIST*1



Now Recommended

by the National Comprehensive Cancer Network® (NCCN®)²

- Category 1

GIST=gastrointestinal stromal tumor

*Advanced GIST can be locally advanced or metastatic3

Reference: 1. QINLOCK Abbreviated Prescribing information. Jun 2020 2. NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) for Gastrointestinal Stromal Tumors (GISTs) V.1.2021. ©National Comprehensive Cancer Network, Inc. 2020. Accessed October 30, 2020. 3. Understanding Advanced and Metastatic Cancer. American Cancer Society. https://www.cancer.org/treatment/understanding-your-diagnosis/advanced-cancer/what-is.html. Accessed on May 5, 2021.

Abbreviated Prescribing Information

Ginlock is indicated for the treatment of adult patients with advanced gastrointestinal stromal tumor (GIST) who have received prior treatment with imatini

DOSAGE AND ADMINISTRATION
150mg (three 500mg toblets) token orally once daily. Dosage reduction for adverse reaction is 100mg orally once daily. Permanently discontinue QINLOCK and tented to the full prescribing information for recommended describe modifications for adverse the full prescribing information for recommended describe modifications for adverse.

Unlock is not indicated in pediatrics (<18 years de). No dose objustment is required for periodirics (<56 years old).

Renal impoliment. An dose objustment is encommended to proteins with mild and moderate need impoliment (renalising eleganose (CiCl) 30 to 89 mL/min estimated by Cockcroti-Goull). The pharmacokinetics and sotiety of Olinlock in patients with end-stage, send of discose (CiCl) 4-15mL/min estimated by Cockcroti-Goull). The pharmacokinetics and sotiety of Olinlock in patients with end-stage, send of discose (CiCl) 4-15mL/min estimated by Cockcroti-Goull or maintening discosing a voice send and control of CiCl 15 to 92 mL/min have not been cludded.

nepuis impuriment – no obsequipament is recommended in politicity with moderate or severe hepatic impuriment door obsequipament is cut and as it is vicin, or root on 1,0 to 1,5 x U.N. The pharmacokinetics and safety of Cinicok in patients with moderate or severe hepatic impuriment have not been studied.

CONTRAINDICATIONS

Hypersensitivity to ripretinib or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container.

The following are similarly againstant adverse events: 1) Cardiac dystunction, Cardiac follow and Grost 3 decreased operation based to be designated intensitive proceedings on MOIAS and is incommended in the control of the Cardiac objects of the Cardia

PREGNANCY AND BREAST-FEEDING

Pregnancy – unlock should not be daministered to pregnant women. Advise tendles of reproductive potential and moles with tendle partners of reproductive polantial to use effective contraception to commence 2 weeks prior to treatment, during treatment and for at least one complete uterine cycle after the final dose or Qinlock,

ADVERSE REACTIONS The most common adver

The most common deverse verified (20%) observed in clinical sold yet depocing, longing, evil opposition, process, proces

Does reduction due to an odever event occurred in 612% of political voice events resultance to the control of political voice events resultance in 612% of political voice events resultance in present event decreased verification of the 612% of political voice events resultance in preminent discontinuation in 212% of elitical voice events resultance in preminent discontinuation in 212% of elitical voice events resultance in preminent discontinuation in 212% of elitical voice events resultance in preminent discontinuation in 212% of elitical voice events resultance in preminent discontinuation in 212% of elitical voice events resultance in preminent discontinuation in 212% of elitical voice events resultance in preminent discontinuation in 212% of elitical voice events resultance in preminent discontinuation in 212% of political voice events resultance in preminent discontinuation in 212% of political voice events resultance in preminent discontinuation in 212% of political voice events resultance in preminent discontinuation in 212% of political voice events resultance in preminent discontinuation in 212% of political voice events resultance in preminent discontinuation in 212% of political voice events resultance in preminent discontinuation in 212% of political voice events resultance in preminent discontinuation in 212% of political voice events resultance in preminent and resultance in 212% of political voice events resultance in 212%

RUG INTERACTIONS

In vitro data suggested that (1978.A/F is the major metabolizer of righerint). Potential interactions may occur with drugs/foodsheets that or enhabitors or induces of this exprase system. Monitor patients more frequently for downers reactions (16 includes kig layer concernently with a strong (1978.4 inhibitors. Avoid concomitant use of direck with strong (1978.4 inhibitors. Monitor patients who ingest grapeful juiced while faxing Gintock. Avoid concomitant use with St. John's worf.

Please after to he full prescribing inhimitoria batter prescribing or the strong of the prescribed production before prescribed and the prescribed production before prescribed.

HK-QIN-202104-03





posteroanterior (PA), lateral, scaphoid long profile views, semi-supination and semi-pronation views. A high-resolution CT scan should be arranged for fracture identification or alignment in suspicious cases where fracture cannot be visualised on X-rays. MRI may be needed sometimes to confirm an occult fracture.

B. Radial Sided Tendinopathies

1. DeQuervain's Disease

It is the commonest wrist tendinopathy in sports. Repetitive thumb extension and abduction, or repeating gripping, grasping, pinching or wring actions irritate the sheath (first extensor compartment retinaculum) around the two tendons (abductor pollicis longus (APL) and extensor pollicis brevis (EPB)), causing thickening and swelling that restricts their motion. Swelling and tenderness localised at the first extensor compartment (Fig. 1), limited thumb abduction and extension action, pain at resisted thumb abduction, marked pain when the wrist is bent ulnar-wards while the player is grabbing the thumb within a fist (modified Eichoff's test) (Fig. 1), and pain when the thumb is grasped and being pulled ulnar-wards (Finkelstein's test) make the diagnosis.



Fig. 1: Modified Eichoff's test (Photo from personal collection)



Fig. 2. Painful area in intersection syndrome (Photo from personal collection)

2. Intersection Syndrome (Oarsman's Wrist)

It is tenosynovitis at the crossing point between the first (APL and EPB) and second (extensor carpi radialis longus and brevis) extensor compartment tendons, resulted from repetitive resisted wrist extension. Players typically experience tenderness at around 4-8 cm proximal to the Lister's tubercle (Fig. 2) and pain at resisted wrist extension and radial deviation. MRI of the wrist and distal forearm is useful to confirm the diagnosis.

3. Flexor Carpi Radialis (FCR) Tendonitis

FCR travels from the medial elbow across the radial wrist through a fibro-osseous tunnel adjacent to the trapezium towards its insertion on the second metacarpal. This deviated course predisposes the tendon to irritation by repetitive wrist flexion or acute over-stretching. Radial wrist pain courses from the radial palmar wrist crease towards the base of the second metacarpal, and is aggravated on resisted wrist flexion and radial deviation.

ULNAR WRIST PAIN

A. Triquetral Fracture

Fracture of the dorsal cortex of triquetrum is the second most common carpal fracture resulting from impaction, avulsion or shear force. A fall with the wrist extended and ulnar deviated, causing impaction of the ulnar styloid on the dorsum of the triquetrum, is the commonest mechanism. There is swelling and pain at the dorsal ulnar wrist. Tenderness is localised on the dorsum of triquetrum (Fig. 3). Because of overlapping carpal bone shadows, this fracture may be missed on a PA or lateral X-ray. A semi-pronation view makes the fracture fragment more apparent.



Fig. 3. Triquetrum is located by palpating the pisiform where triquetrum is situated directly dorsal to it (Photo from personal collection)

B. TFCC (Triangular Fibrocartilage Complex) Tear

TFCC is a ligament-fibrocartilage complex that consists of the triangular fibrocartilage, surrounding ligamentous tissues, including the radioulnar ligament, and the sheath floor of the extensor carpi ulnaris (ECU) (Fig. 4). It stabilises the ulnocarpal and distal radioulnar joints (DRUJ), distributes load between the ulna and



ulnar carpus and introduces smooth forearm rotation. TFCC is torn following a fall or excessive loading onto the pronated hyperextended wrist, hyper-rotational injuries to the forearm, or repetitive forceful forearm rotation and wrist ulnar deviation. Players experience ulnar wrist pain with forearm rotation, gripping, wrist ulnar deviation, and feeling slacking at the ulnar wrist in carrying heavyweights, twisting doorknob or wringing towel. There is tenderness at the volar base of the ulnar styloid (foveal sign), pain on passive forearm rotation and ulnocarpal grinding, and DRUJ laxity in the ballottement test. Gradient echo sequence T2-weighted image and fat suppression T1-weighted MRI images help delineating detailed TFCC structure and the tear.

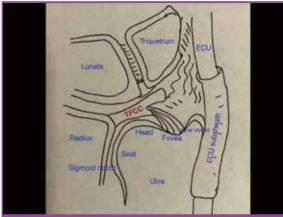
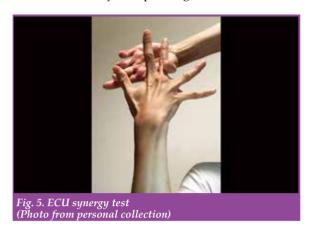


Fig. 4. Anatomy of TFCC and ECU (Photo from personal collection)

C. ECU Tendonitis and Instability

ECU travels from the lateral elbow across the ulnar wrist through a fibro-osseous tunnel embraced by the ECU subsheath for about 1.5 cm within the ECU groove (Fig. 4), and attaches on the dorsal aspect of the base of the fifth metacarpal. With the wrist in supination, the tendon exits the subsheath at around 30°. Increased ulnar-negative variance (ulna is shorter than the radius at the level of the articular surface), and shallower and shorter ECU groove have been shown to be associated with ECU pathologies. With hypersupination, ulnar deviation and wrist flexion forces, the tension on the ECU and subsheath is greatest, which leads to ECU tendonitis, subluxation, dislocation and even traumatic or attritional rupture. Athletes involved in racket or stick-handling sports are often affected, and ECU injuries accounted for 76% of wrist injuries in male tennis players.¹⁷ They experience pain and sometimes snapping over the course of the ECU tendon at forceful gripping, supination, wrist flexion/extension, or ulnar deviation, such as the non-dominant hand in double-handed backhand in tennis, or leading hand in the downward phase of a golf stroke. There are tenderness and swelling along the ECU tendon, pain with resisted wrist extension and ulnar deviation, and weakness of ECU action. ECU tendon subluxation or dislocation may be found with wrist extension, ulnar deviation and supination. ECU synergy test (Fig. 5) is positive - painful in the resisted thumb and middle finger abduction with the forearm in full supination. Ultrasound gives a dynamic evaluation to compare

the stability of ECU with the contralateral side. MRI is sensitive to identify ECU pathologies.



CENTRAL WRIST PAIN

A. Scapholunate Ligament (SLL) & Dorsal Capsulo-Scapholunate Septum (DCSS) Injury

SLL is the most important ligament maintaining the strength and stability of the wrist. The dorsal part of the SLL is the most important part for the stability of the scapholunate joint. Its insertion into the dorsal capsule and dorsal intercarpal ligament creates the DCSS (Fig. 6). DCSS injury represents the earliest (pre-dynamic) stage of the scapholunate instability and usually arises from a sudden or repetitive wrist hyperextension or hyperflexion loading force. It is common to encounter players complaining of dorsal central wrist pain during pushups and power grips without X-ray or MRI evidence. It is sometimes misdiagnosed for a long time.

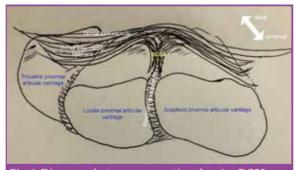


Fig. 6. Diagram of a transverse section showing DCSS (Photo from personal collection)

Complete SLL tear creates scapholunate widening when stress is applied (dynamic stage). Additional injury to the surrounding secondary stabilisers results in static widening of the scapholunate joint (static stage). SLL tear is the commonest cause of carpal instability and most commonly following a fall onto an extended, ulnar deviated wrist. Contact or combat sports which place the athlete in a position of impact with hyperextension, ulnar deviation and supination of the wrist can also lead to SLL tear.



Players experience pain, and mild swelling over the dorsal central wrist aggravated by heavy use, weak grip strength, and sometimes reduced mobility. Tenderness is easily found distal to the Lister's tubercle with the wrist at mild flexion. Pain is elicited at extreme passive wrist flexion or extension. Watson's test is positive in SLL complete tear. It is performed with the examiner's thumb pressed onto the scaphoid tuberosity to prevent the scaphoid from flexing while the wrist is moved passively from ulnar to radial deviation. Dorsoradial wrist pain is induced as the proximal pole of the scaphoid is subluxed dorsally. Clunking is produced when the thumb pressure is released. Standard X-rays may appear normal, only showing increased flexion of the scaphoid. Anteroposterior clenched fist view may show scapholunate widening. MRI is helpful, and arthroscopy is the gold standard in the diagnosis.

CONCLUSION

Sports injuries in the wrist can be a complex issue. Good knowledge of these entities minimises the incidence of missing a diagnosis and delaying proper treatment, and helps the players to prevent further damage while returning to sports in a smart manner.

References

- Amadio PC. Epidemiology of hand and wrist injuries in sports. Hand Clin.1990;6:379-81.
- Kreisfeld R, Harrison J, Pointer S. Australian sports injury hospitalisations, 2011–12. Inj Res Stat Ser 2014;92.

- Wood AM, Robertson GA, Rennie L, et al. The epidemiology of sports-related fractures in adolescents. Injury 2010;41(8):834–8. Rettig AC. Athletic injuries of the wrist and hand. Part 1. Traumatic injuries of the wrist. Am J Sports Med. 2003;31:1038-48.
- Court-Brown CM, Wood AM, Aitken S. The epidemiology of acute sports-related fractures in adults. Injury 2008;39(12):1365–72.
- 5. Robertson GA, Wood AM, Bakker-Dyos J, et al. The epidemiology morbidity, and outcome of soccer-related fractures in a standard population. Am J Sports Med 2012;40(8):1851–7.
- Lawson GM, Hajducka C, McQueen MM. Sports fractures of the distal radius: epidemiology and outcome. Injury 1995;26(1):33–6.
- Tsui, CT, Leung, M, Chow, CP, Chan, KH, and Lit, ACH. A One-Year Hospital-Based Analysis of Sports Injuries. Hong Kong Journal of Emergency Medicine 14.4 (2007): 204-14. Web.
- Kox, Laura S, Kuijer, P Paul F M, Kerkhoffs, Gino M J, Maas, Mario, and Frings-Dresen, Monique H W. "Prevalence, Incidence and Risk Factors for Overuse Injuries of the Wrist in Young Athletes: A Systematic Review." British Journal of Sports Medicine 49.18 (2015): 1189-196. Web.
- Kozin SH. Incidence, mechanism, and natural history of scaphoid fractures. Hand Clin 2001;17:515-24.
- 10. Phillips TG, Reibach AM, Slomiany WP. Diagnosis and management of scaphoid fractures. Am Fam Physician 2004;70:879-84.
- 11. Riester JN, Baker BE, Mosher JF, Lowe D. A review of scaphoid fracture healing in competitive athletes. Am J Sports Med. 1985;13(3):159-62.
- 12. Munk PL, Lee MJ, Logan PM, Connell DG, Janzen DL, Poon PY, et al. Scaphoid bone waist fractures, acute and chronic: imaging with different techniques. AJR Am J Roentgenol 1997;168:779-86.
- 13. Marai GE, Crisco JJ, Laidlaw DH. A kinematics-based method for generating cartilage maps and deformations in the multi-articulating wrist joint from CT images. Conf Proc IEEE Eng Med Biol Soc 2006:1:2079-82.
- 14. Gelberman RH, Gross MS. The vascularity of the wrist. Identification of arterial patterns at risk. Clin Orthop Relat Res 1986;202:40-9.
- 15. Handley RC, Pooley J. The venous anatomy of the scaphoid. J Anat 1991;178:115-8.
- Luchetti, Riccardo, Pegoli, Loris, and Bain, Gregory I. Hand and Wrist Injuries in Combat Sports. Cham: Springer International AG, 2018. Web.
 Montalvan B, Parier J, Brasseur JL, Le Viet D, Drape JL. Extensor carpi
- ulnaris injuries in tennis players: a study of 28 cases. Br J Sports Med.

Dermatology Quiz



Dermatology Quiz

Dr Chi-keung KWAN

MBBS(HK), FRCP(Lond, Glasg, Edin), Dip Derm(Glasg), FHKCP, FHKAM(Medicine)

Specialist in Dermatology and Venereology





Fig.1: Thick and scaly dandruff on the scalp.

This 48-year-old lady complained of increasing dandruff, which was thick and sticky on the scalp, especially at the vertex region. The onset was insidious and the condition had been increasing in severity over several months. There was a mild itch on the scalp, but not painful. Physical examination revealed multiple thick and sticky scaling and dandruff on the scalp, especially over the vertex region. The underlying scalp was erythematous; however, no other area of skin was involved (Fig. 1).

Ouestions

- 1. What is the diagnosis of her skin lesion?
- What investigations are you going to order?
 - How do you treat this patient?

(See P.32 for answers)

Course No. C369
 CME/CNE Course

Certificate Course on

Respiratory Medicine 2021

(Video Lectures)

Jointly organised by



The Federation of Medical Societies of Hong Kong 青浜聚學紅纖珠會



Hong Kong Thoracic Society Limited 香港胸部學會



Objectives:

To enhance understanding and provide recent updates in various aspects of Respiratory medicine

Date	Topics	Speakers
1 Sept 2021	Airway diseases	Dr. Maureen Wong cos (MG/ICU)/CMC
8 Sept 2021	Radiological investigation for Pulmonary disease	Dr. CM Wong AC (Med)/ NDH
45.0-40004	Lung cancer - Pulmonologist's prospective	Dr. HC Fan Consultant (M&G)/ RTSKH
15 Sept 2021	Lung cancer - Oncologist's prospective	Dr. YK Lam Consultant (M&G) / UCH
29 Sept 2021	Management of Pleural Diseases	Dr. CF Choy AC (MED) TKOH
6 Oct 2021	Indication, monitoring and troubleshooting for CPAP therapy	Ms. Maggie Lit KCC NC(Respiratory) / QEH NC(Respiratory)

Date: 1, 8, 15, 29 September & 6 October 2021 (Wednesday, skip 22 September, public holiday)

Time: 7:00 p.m. - 9:00 p.m. (2 hours per session)

Course Feature: Video lectures (with Q&A platform for participants to post the questions)

Quiz for doctors: To tie in with the CME requirements for video lectures, DOCTORS are required to complete a quiz after

the completion of each lecture

Language Media: Cantonese (Supplemented with English)

Course Fee: HK\$1,200 (5 sessions)

Certificate: Awarded to participants with a minimum attendance of 70%

Deadline: 24 August 2021

Enquiry: The Secretariat of The Federation of Medical Societies of Hong Kong

Tel.: 2527 8898 Fax: 2865 0345 Email: vienna.lam@fmshk.org



MCHK CME Programme Self-assessment Questions

Please read the article entitled "Why is My Wrist Painful after Sports?" by Dr Clara Wing-yee WONG and complete the following self-assessment questions. Participants in the MCHK CME Programme will be awarded CME credit under the Programme for returning completed answer sheets via fax (2865 0345) or by mail to the Federation Secretariat on or before 31 July 2021. Answers to questions will be provided in the next issue of The Hong Kong Medical Diary.

Ouestions 1-10: Please answer T (true) or F (false)

- 1. Distal ulnar fracture is the most easily recognised condition among all sports-related wrist injuries.
- 2. If a complete scaphoid fracture was initially not noticed five weeks ago, it could usually heal easily with subsequent casting for four weeks.
- 3. Scaphoid fracture is a rare carpal fracture its diagnosis is easily recognised at presentation.
- 4. In some cases, CT scan or MRI should be arranged for particular fracture identification or alignment in suspicious cases where fracture cannot be visualised in X-rays.
- 5. DeQuervain's disease is the commonest wrist tendinopathy in sports.
- 6. DeQuervain's disease, Intersection syndrome and triquetral fracture can cause radial wrist pain.
- 7. MRI of the wrist and distal forearm is not useful to confirm the diagnosis of Intersection syndrome.
- 8. If a patient has ulnar wrist pain with wrist ulnar deviation and forearm supination, TFCC (triangular fibrocartilage complex) injury or ECU (extensor carpi ulnaris) tendon problem can be the diagnosis.
- 9. In triquetral fracture, tenderness is localised on the dorsum of triquetrum.
- 10. TFCC (triangular fibrocartilage complex) stabilises the ulnocarpal and distal radioulnar joints (DRUJ), distributes load between the ulna and ulnar carpus, and introduces smooth forearm rotation.

ANSWER SHEET FOR JULY 2021

Please return the completed answer sheet to the Federation Secretariat on or before 31 July 2021 for documentation. 1 CME point will be awarded for answering the MCHK CME programme (for non-specialists) self-assessment questions.

Why is My Wrist Painful after Sports?

Dr Clara Wing-yee WONG

MB ChB(CUHK), MRCSEd, FRCSEd(Orth), FHKCOS, FHKAM(Orthopaedic Surgery)

Consultant Orthopaedic Surgeon, CUHK Medical Centre
Clinical Professional Consultant, Department of Orthopaedics and Traumatology, Faculty of Medicine, The Chinese University of Hong Kong
Associate Professor of Practice, Department of Orthopaedics and Traumatology, Faculty of Medicine, The Chinese University of Hong Kong
Commission Member, Hong Kong Association of Sports Medicine and Sports Science

1 3 4 5	6 7 8	9 10
Name (block letters):	HKMA No.:	CDSHK No.:
HKID No.: X X (X)	HKDU No.:	HKAM No.:
Contact Tel No.:	MCHK No. / DCHK No.:	(must fill in)
Answers to June 2021 Issue		

The Use of Integrative Medicine for Treatment of COVID-19

1. F 2. F 3. F 4. T 5. F 6. T 7. T 8. T 9. T 10. T

Dance Injuries in the Foot and Ankle

Dr Samuel KK LING

MBChB, ChM, MRCSEd, FHKCOS, FRCSEd, FHKAM

Specialist in Orthopaedics and Traumatology, Clinical Assistant Professor, Department of Orthopaedics and Traumatology, Faculty of Medicine, The Chinese University of Hong Kong (CÜHK) Commission Member, Hong Kong Association of Sports Medicine and Sports Science



Dr Samuel KK LING

INTRODUCTION

Dance involves graceful artistry coupled with powerful physicality. In fact, "Dance" has been rated as the most physically demanding job by the Occupational Information Network. Dance-related injuries are quite prevalent, with the foot and ankle region being the most common, followed by knee and spine problems.¹

ANKLE INSTABILITY

Ankle sprains are definitely one of the most common injuries.² When we speak of ankle sprains, we refer to an injury to the lateral ankle ligament complex most of the time. This complex consists of the anterior talofibular ligament, calcaneal-fibular ligament and the posterior talofibular ligament. They act as static stabilisers of the ankle joint and are important for daily and recreational activities. Around 30% of patients suffering from an ankle sprain will develop chronic ankle instability with symptoms of recurrent sprains, impingement and pain. Contrary to the hips and knees, the ankle is relatively resistant to primary osteoarthritis, and evidence suggests that ankle osteoarthritis may be a late-stage sequela of maltreated ankle instability.3,4 Secondary arthritis, especially post-traumatic arthritis, makes up 70 - 80% of all ankle arthritis, with inflammatory arthritis making up most of the remaining cases.⁵ Clinically, we can perform stress tests on physical examination or x-ray/ultrasound to make a diagnosis.^{6,7} The acronym of PEACE and LOVE can guide the treatment of soft tissue injuries; it stands for protection, elevation, avoidance of NSAIDS, compression, education, loading, optimism, vascularisation and exercise.8 If conservative treatment fails, surgical repair has well documented outcomes.9 This is typically performed in conjunction with an ankle arthroscopy for the management of intraarticular pathologies. Some papers report that even in ankle instability patients already complicated with early osteoarthritis, they would still benefit from ligamentous repair/reconstruction.¹⁰ However, when the diseases progress into end-stage arthritis, ankle arthrodesis and total ankle replacement may be the only options.5

TALUS OSTEOCHONDRAL DEFECTS

Talar osteochondral defects can be present, even in the absence of instability. X-rays and MRI are often sufficient, but diagnostic arthroscopy is still the gold standard.¹¹ Treatment starts with physiotherapy and intraarticular injections. Intra-articular steroids, hyaluronic acid and platelet-rich plasma have all been reported with positive outcomes; some trials suggest that platelet-rich plasma is most superior; however, that is still debated. ^{12,13} Chondroplasty surgery with various marrow stimulation techniques such as microfractures/nano-drilling all have encouraging results and are options when conservative treatment fails. ¹⁴ Biological augmentation during arthroscopy is currently a hotly researched topic with surgeons using plateletrich plasma, bone marrow aspirate, 3D scaffolds, etc. However, there is hitherto no clear superiority shown. ¹⁵ Osteochondral grafting is also an option, and studies have shown autograft from the knee vs fresh cadaveric allograft yield comparable results; nonetheless, these procedures are less often performed. ¹⁶

ANKLE IMPINGEMENT

Impingement of the ankle is another commonly encountered problem; it is categorised into anterior and posterior impingement.¹⁷ Anterior ankle impingement happens in end-range dorsiflexion, commonly seen in contemporary styles of dance. Different osseous and soft-tissue structures can be the culprit of this impingement, and arthroscopic debridement with cheilectomy are decent measures if physiotherapy is ineffective. 18 Posterior ankle impingement typically presents with deep posterior ankle pain, frequently seen in ballet dancers when they go en-pointe. An os trigonum or an elongated posterior talar tubercle (Steida process) can be culprits of the impingement, in addition to soft tissues such as post-traumatic fibrosis. Endoscopic/arthroscopic excision of the impinging structures is an effective solution and yields better outcomes than open surgery. 19

ACHILLES TENDINOPATHY

Achilles tendon pathology is another important differential diagnosis of posterior ankle/heel pain.²⁰ It is useful to classify Achilles tendinopathy into insertional or pre-insertional aetiologies since the treatment can be significantly different.²¹ In general, the term tendinopathy is very broad and non-specific; some believe in an element of degeneration in tendinosis while others feel the role of inflammation, such as in tendonitis is more important.²² Prescribing heel lifts have been shown to reduce Achilles strain and are often a simple and effective treatment modality.²³ Physiotherapy, specifically eccentric training, has also been shown to improve tendinopathy.²¹ Injections such as high volume distension therapy and plateletrich plasma are popular treatments, but the published



papers only show equivocal results.²⁴ A formal surgical debridement is an option that often requires concomitant reattachment of the Achilles using suture anchors. The diseased tendon segment is often quite extensive, and a tendon transfer (e.g. harvesting the flexor hallucis longus) is also frequently necessary. Neglect of Achilles tendinopathy sometimes ends with an acute-on-chronic Achilles tendon rupture after a trivial injury. It is best managed surgically but is more complicated than a simple repair following traumatic ruptures of healthy tendons. Most Achilles tendon surgery are now done via minimally-invasive techniques which reduce wound-related complications.²⁵ Most patients are usually able to resume dancing recreationally, but it is often a careerending injury for professional dancers.

METATARSAL STRESS FRACTURE

In dancers presenting with unexplained foot pain, especially if there is a history of recent changes in training regime and rehearsal schedules, always consider the possibility of a stress fracture. 26-28 One can imagine that a teenage girl who dances multiple hours in front of a mirror is prone to be very bodyconscious and may embark on various dieting regimes. They are at risk of developing the "female athletic triad" of amenorrhoea with low energy (with or without an eating disorder) and low bone mineral density, predisposing them to stress fractures. Treatment is activity modification, psychological intervention and the education of a healthy balanced diet; full resumption of dancing can only be expected after 12 weeks.

CONCLUSION

Dance is an art form requiring tremendous physicality; as a result, the injury prevalence is very similar to those in sports. Foot and ankle problems are the predominant pathology, and dancers should be considered with the same scale as athletes; their physical needs are much greater than the average person, and treatment should be tailored to help meet those demands. Dance medicine is still in its infancy, but significant amounts of research have been going into this area within the past decade, allowing us more insight into how to properly help this special group of patients.

References

- Hincapie CA, Morton EJ, Cassidy JD. Musculoskeletal injuries and pain in dancers: a systematic review. Archives of physical medicine and rehabilitation. 2008;89(9):1819-29.
- Lai JH-C, Ling SKK, Cacho P, Mok SW, Yung PSH. The effects of shoe collar height on ankle sprain mechanics in athletes: A review of literature. Journal of Orthopaedics, Trauma and Rehabilitation. 2020;27(2):221-30.
- Tonogai I, Sairyo K. A case of ankle osteoarthritis associated with lateral premalleolar bursitis caused by chronic ankle instability. Int J Surg Case Rep. 2021;80:105671.
- Wikstrom EA, Song K, Tennant JN, Dederer KM, Paranjape C, Pietrosimone B. T1rho MRI of the talar articular cartilage is increased in those with chronic ankle instability. Osteoarthritis Cartilage. 2019;27(4):646-9.
- Lee GW, Santoso A, Lee KB. Comparison of Intermediate-term Outcomes of Total Ankle Arthroplasty in Primary and Ligamentous Post-traumatic Osteoarthritis. Foot Ankle Int. 2019;40(11):1273-81.
- Li Q, Tu Y, Chen J, Shan J, Yung PS, Ling SK, et al. Reverse anterolateral drawer test is more sensitive and accurate for diagnosing chronic anterior talofibular ligament injury. Knee Surg Sports Traumatol Arthrosc. 2020;28(1):55-62.

- Bamber ZA, Wheeler PC, He X, Ling SKK, Yung PSH, Fong DTP. Screening for laterally deviated plantar pressure during stance using the Cumberland ankle instability tool and anthropometric measures. Research in Sports Medicine. 2020:1-13.
- Dubois B, Esculier JF. Soft-tissue injuries simply need PEACE and LOVE. British journal of sports medicine. 2020;54(2):72-3.
- Kim SW, Jung HG, Lee JS. Ligament stabilization improved clinical and radiographic outcomes for individuals with chronic ankle instability and medial ankle osteoarthritis. Knee Surg Sports Traumatol Arthrosc. 2020;28(10):3294-300.
- Takao M, Komatsu F, Naito K, Uchio Y, Ochi M. Reconstruction of lateral ligament with arthroscopic drilling for treatment of earlystage osteoarthritis in unstable ankles. Arthroscopy: the journal of arthroscopic & related surgery: official publication of the Arthroscopy Association of North America and the International Arthroscopy Association. 2006;22(10):119-25.
- Takao M, Uchio Y, Naito K, Fukazawa I, Ochi M. Arthroscopic assessment for intra-articular disorders in residual ankle disability after sprain. The American journal of sports medicine. 2005;33(5):686-92
- Mei-Dan O, Carmont MR, Laver L, Mann G, Maffulli N, Nyska M. Platelet-rich plasma or hyaluronate in the management of osteochondral lesions of the talus. The American journal of sports medicine. 2012;40(3):534-41.
- 13. Gormeli G, Karakaplan M, Gormeli CA, Sarikaya B, Elmali N, Ersoy Y. Clinical Effects of Platelet-Rich Plasma and Hyaluronic Acid as an Additional Therapy for Talar Osteochondral Lesions Treated with Microfracture Surgery: A Prospective Randomized Clinical Trial. Foot & Ankle International. 2015;36(8):891-900.
- Choi JI, Lee KB. Comparison of clinical outcomes between arthroscopic subchondral drilling and microfracture for osteochondral lesions of the talus. Knee Surg Sports Traumatol Arthrosc. 2016;24(7):2140-7.
- Yasui Y, Wollstein A, Murawski CD, Kennedy JG. Operative Treatment for Osteochondral Lesions of the Talus: Biologics and Scaffold-Based Therapy. Cartilage. 2017;8(1):42-9.
- Ahmad J, Jones K. Comparison of Osteochondral Autografts and Allografts for Treatment of Recurrent or Large Talar Osteochondral Lesions. Foot Ankle Int. 2016;37(1):40-50.
- 17. Lavery KP, McHale KJ, Rossy WH, Theodore G. Ankle impingement. Journal of orthopaedic surgery and research. 2016;11(1):97.
- Nery C, Baumfeld D. Anterior and Posterior Ankle Impingement Syndromes: Arthroscopic and Endoscopic Anatomy and Approaches to Treatment. Foot and ankle clinics. 2021;26(1):155-72.
- Georgiannos D, Bisbinas I. Endoscopic Versus Open Excision of Os Trigonum for the Treatment of Posterior Ankle Impingement Syndrome in an Athletic Population: A Randomized Controlled Study With 5-Year Follow-up. The American journal of sports medicine. 2017;45(6):1388-94.
- Siu R, Ling SK, Fung N, Pak N, Yung PS. Prognosis of elite basketball players after an Achilles tendon rupture. Asia Pac J Sports Med Arthrosc Rehabil Technol. 2020;21:5-10.
- 21. Beyer R, Kongsgaard M, Hougs Kjaer B, Ohlenschlaeger T, Kjaer M, Magnusson SP. Heavy Slow Resistance Versus Eccentric Training as Treatment for Achilles Tendinopathy: A Randomized Controlled Trial. The American journal of sports medicine. 2015;43(7):1704-11.
- Jomaa G, Kwan CK, Fu SC, Ling SK, Chan KM, Yung PS, et al. A systematic review of inflammatory cells and markers in human tendinopathy. BMC musculoskeletal disorders. 2020;21(1):78.
- Lee KKW, Ling SKK, Yung PSH. Controlled trial to compare the Achilles tendon load during running in flatfeet participants using a customized arch support orthoses vs an orthotic heel lift. BMC musculoskeletal disorders. 2019;20(1):535.
- Liu CJ, Yu KL, Bai JB, Tian DH, Liu GL. Platelet-rich plasma injection for the treatment of chronic Achilles tendinopathy A meta-analysis. Medicine. 2019;98(16).
- Ling SKK, Slocum A, Lui TH. 5-year results of the 1.5cm incision Achilles tendon repair. Foot (Edinb). 2017;33:35-8.
- 26. J. WM, Hayes T, Pastides P, Khan W, Rudge. Stress Fractures of the Foot and Ankle. Injury. 2017;48(8).
- High-Risk Stress Fractures: Diagnosis and Management McInnis -2016 - PM&R - Wiley Online Library. 2020.
- Miller TL, Jamieson M, Everson S, Siegel C. Expected Time to Return to Athletic Participation After Stress Fracture in Division I Collegiate Athletes. Sports Health. 102018. p. 340-4.

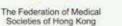
Certificate Course on

Renal Medicine 202

(Video Lectures)

Jointly organised by







Nephrology

Objectives:

To update the participants on new advances in renal medicine and clinical practice of common renal problems, and to help the participants to interpret results of common renal investigations.

Date	Topics	Speakers
2 Sept 2021	Common Investigation Tests for Renal Disease Including Approach to Proteinuria and Haematuria	Dr. Sze-kit YUEN Associate Consultant Department of Medicine & Genatrics Cartas Medicial Centre
	Update and Management of Acute Kidney Injury	Dr. Chun-hay TAM Clinical Associate Professor (Honorary) Department of Medicine 8 Therapeutics The Chinese University of Hong Kong Honorary Clinical Assistant Professor Department of Medicine, University of Hong Kong
9 Sept 2021	ABC of Hemodialysis Therapy	Dr. Gensy Mei-wa TONG Director Renal Care Hong Kong Baptist Hospital Nephrologis-In-charge Kal Tak Haemodalysis Center
o oup zoz.	Update and Management of Glomerular Disease	Dr. Elaine Tsz-ling HO Associate Consultant Department of Medicine Tsoung Kwan O Hospital
40.0 10001	Nutritional Management in Kidney Diseases	Ms. Cherry Pui-yee LAW Desition Pencils Youds Nothersole Eastern Hospital
6 Sept 2021	Kidney Involvement in Multi-System Disorders	Dr. Desmond Yat-hin YAP Clinical Associate Professor Department of Medicine University of Hung Kong
23 Sept 2021	Drug Prescribing in Renal Failure	Dr. Anthony Kai-ching HAU Associate Consultant Department of Medicine & Genatrics Tuen Mun Hospital
	ABC of Peritoneal Dialysis Therapy	Dr Joseph Ho-sing WONG Associate Censultant. Department of Medicine Queen Elizabeth Hospital
30 Sant 2021	Update on Diabetic Nephropathy	Dr. Maggie Kam-man MA Associate Consultant Department of Medicine Queen Mary Hospital
30 Sept 2021	Update and Management of Chronic Kidney Disease	Or, Wing-fai PANG Associate Consultant Department of Medicole & Thirtapeud on Place of Wales Hospital
7 Oct 2021	Update and Management of Hypertension	Dr. Wai-yan LAU Associate Consultant Department of Medicine Alice Ho Mix Ling Nethersole Hospital
7 Oct 2021	ABC of Renal Transplantation	Dr. Ka-fai YIM Associate Consultant Department of Medicine & Genatrics Princess Margaret Hospital

Date: 2, 9, 16, 23, 30 September & 7 October, 2021 (Every Thursday)

Duration of session: 1.5 hours (6 sessions)

Time: 7:00 pm - 8:30 pm

Course Feature: Video lectures (with Q&A platform for participants to post the questions)

Quiz for doctors: To tie in with the CME requirements for video lectures, DOCTORS are required to complete a guiz after

the completion of each lecture

Language Media: Cantonese (Supplemented with English)

Course Fee: HK\$1,000

Certificate: Awarded to participants with a minimum attendance of 70% (4 out of 6 sessions)

Deadline: 25 August 2021

Enquiry: The Secretariat of The Federation of Medical Societies of Hong Kong

Tel:: 2527 8898 Fax:: 2865 0345 Email:: vienna.lam@fmshk.org





Injection Therapy in Sports Injuries, Where Are We? Where Are We Headed?

Dr George YK LAW

MBChB, MRCSEd, FHKCOS, FRCSEd, FHKAM

Specialist in Orthopaedics and Traumatology Associate Consultant, Department of Orthopaedics and Traumatology, Alice Ho Miu Ling Nethersole Hospital Honorary Clinical Assistant Professor, The Chinese University of Hong Kong Council Member, Hong Kong Association of Sports Medicine and Sports Science



Dr George VK I AW

INTRODUCTION

Injection therapies are one of the popular non-operative treatment modalities in Sports medicine for conditions including tendon injuries, ligament injuries, cartilage injuries and osteoarthritis (OA). Intra-articular hyaluronic acid (IAHA) has been the recommended treatment of choice for OA of the knee for more than 20 years; there has also been increasing interest in the use of biological products, including platelet-rich plasma (PRP) and stem cells, in treating many musculoskeletal conditions.

HYALURONIC ACID

What is Hyaluronic Acid?

Hyaluronic acid (HA) is a glycosaminoglycan, which is naturally present in synovial fluid and provides viscoelastic properties for the fluid. There is a decrease in the quantity of HA in synovial fluid during the progression of OA,¹ which correlates clinically with joint pain and functional deficit.²

Mechanism of Action

In the early 1990s, Balazs hypothesised the use of IAHA to replenish the viscoelasticity of the degenerated synovial fluid. This hypothesis forms the foundation for the evolving "viscosupplementation" concept,^{3,4} the latter proposes that IAHA can improve the lubrication in the joint. At the cellular level, IAHA helps to lessen pain mediator formation, enhance endogenous HA production, decrease HA degradation and protect against chondrocyte loss. The regimen of IAHA differs in different products, ranging from a single shot to multiple sequential injections each at one-week intervals.

Clinical Efficacy

Various meta-analyses^{5,6,7,8} have shown the clinical efficacy of IAHA in OA of the knee. The effect size of IAHA in treating OA of the knee is at least comparable to or even better than common oral analgesics⁹ in terms of pain relief and functional improvement.

However, there is no evidence to support the generalised use of IAHA injection in other major joints, including shoulder, hip and ankle joints.

Safety

A systemic review and network meta-analysis ¹⁰ involving 18 HA products and 13,042 patients aged 45 to 75

years found a low rate of adverse events from IAHA. Transient local reactions such as pain, erythema and swelling were the most common adverse events, being reported in 8.5% of the cohort. In 37 studies involving 13 products and 5,550 patients, the incidence of patients withdrawn due to adverse events was low, ranging from 0 to 4.4%

Controversies

Even though the use of IAHA has been recommended by various professional organisations all over the world¹¹⁻¹⁴, the American Academy of Orthopaedic Surgeons (AAOS) does not recommend the use of IAHA in patients with symptomatic OA of the knee.¹⁵ This stand of the AAOS arises from possible publication bias in the available literature such that the overall effect of IAHA could not achieve the minimum clinically significant improvement in patients.

Conflicting clinical findings could likely result from variations in concentration, molecular weight, and injection protocol in different HA products.

Further high-quality study is needed to determine the patient phenotype and disease subgroup that would best benefit from IAHA. Future research direction in IAHA should target potential disease-modifying and joint-replacement-sparing properties of IAHA, long term effects of repeating injections and efficacy of combination treatment using different injection agents.

PLATELET-RICH PLASMA

Platelet- rich plasma (PRP) in the literature refers to a group of biological products including autologous conditioned plasma, platelet-enriched plasma, plateletrich concentrate, autogenous platelet gel, platelet releasate, platelet rich in growth factors (GFs) etc. ¹⁶

PRP contains an abundant amount of growth factors and cytokines that can stimulate cell migration, cell proliferation, angiogenesis and matrix synthesis.¹⁷ It helps to initiate and promote healing in various kinds of musculoskeletal injuries, including tendon, ligament and cartilage injuries.

Mechanism

PRP is usually prepared by using commercial kits and a centrifuge machine on autologous blood. After withdrawing and centrifuging the blood sample, the middle thin layer, which is the PRP, will be taken. Once the liquid form of activated PRP is injected, it forms a

transient fibrin scaffold and gradually releases growth factors at the site of infiltration. Growth factors will then stimulate various cellular cascades leading to tissue remodelling.

Clinical Efficacy

With its property of arousing tissue healing, PRP injection is potentially a promising treatment for osteoarthritis, tendon injury and ligament injury.

Osteoarthritis

Several randomised controlled trials (RCT) showed a positive effect of intra-articular PRP injection, in terms of pain control and improving joint stiffness and physical function, when compared with IAHA or placebo for the management of OA of the knee^{20,21,22}. More recent studies support the use of leucocyte-poor PRP (LP-PRP) in the place of leucocyte-rich PRP (LR-PRP) in the treatment of OA of the knee.^{18,19,20} Conceivably, the higher leucocyte concentration induces a more inflammatory response, which in turn promotes tissue healing, but such an inflammatory response may not necessarily be desirable in the context of managing OA of the knee.

Tendon Injury

Various growth factors in PRP may help in tendon healing by interacting with the tenocyte and extracellular matrix.

Lateral epicondylitis, also known as tennis elbow, is chronic overuse tendinopathy of the lateral elbow extensor tendons. There have been various studies comparing the effect of PRP with placebo, or with corticosteroid injection, or with other forms of conservative management in patients with lateral epicondylitis. Johal et al.²³ published a systematic review and meta-analysis of 78 RCTs on the use of PRP in musculoskeletal injuries. The authors concluded that PRP leads to a reduction in pain; the available evidence supports the use of PRP in the management of lateral epicondylitis.

Houck et al.²⁴ reported in his systematic review that PRP is effective in the treatment of lateral epicondylitis in the intermediate term, while corticosteroids improve the functional outcome and pain relief in the short term.

Patellar tendinopathy is also a common chronic overuse tendon disorder. A recent systematic review and metanalysis on non-surgical treatments of patellar tendinopathy concluded that multiple PRP injections may offer more satisfactory results at long-term follow-up than other non-surgical treatment modalities and can be therefore considered a suitable option for the treatment of patellar tendinopathy.²⁵ However, the authors also commented that the 70 studies included were generally with poor study quality.

Achilles tendinopathy commonly affect our athletes, especially runners. Nauwelaers et al. published a systematic review with meta-analysis on 4 RCTs. They concluded that PRP has no clear additional value in the management of chronic midsubstance Achilles tendinopathy and, therefore should not be used as a first-line treatment option.²⁶

Other potential use of PRP include ulnar collateral ligament injury, plantar fasciitis, meniscal tear, augmentation in rotator cuff repair, augmentation in anterior cruciate ligament (ACL) reconstruction and muscle injuries. Further high-quality studies are necessary to verify the clinical efficacy of PRP injection in these conditions.

Controversies

Despite the promising clinical results of PRP in the treatment of OA of the knee, international guidelines, including those issued by AAOS and the National Institute for Health and Care Excellence (NICE), suggested that there is still inconclusive evidence to support the use of PRP for OA of the knee. More high-quality studies are warranted to refine the optimal concentration of leucocyte, concentration of platelet, proportion of leucocyte subtype, severity and characteristics of the patients suffering from OA who will benefit from PRP injection.

STEM CELLS

Stem cells are undifferentiated cells that are capable of division and differentiation into specialised cell types. These characteristics render stem cells the potential for tissue repair and regeneration.

In treating musculoskeletal disease, mesenchymal stem cells (MSCs) and bone marrow aspirate concentrate (BMAC) are currently the potential candidates to be used in clinical settings.

MSCs are able to differentiate along the mesodermal lineage, which includes the osteoblasts and the chondrocytes. MSCs' potential disease-modifying function is believed to be via manipulation of the local environment by paracrine signalling rather than via direct differentiation of MSCs.²⁷ Additionally, MSCs offer their anti-inflammatory and immunomodulatory function via anti-inflammatory cytokine expression, monocyte maturation inhibition and inflammatory T-cell suppression.²⁸ Common human source of MSCs include bone marrow, adipose tissue, skeletal muscle and umbilical cord blood. Up to date, no MSC therapies have been approved by Food and Drug Administration (FDA) for clinical use in musculoskeletal disease.

Unlike MSCs, which depend upon laboratory manipulation and culture expansion to isolate and augment cell populations, BMAC only requires centrifuging process with commercial kits similar to that of PRP. BMAC is usually classified as minimally manipulated autologous blood products, with a mixed cell population and lower prevalence of progenitor cells. In contrast to MSCs, BMAC is cleared by the FDA for the clinical use in musculoskeletal disease.

Clinical Efficacy

Osteoarthritis

There are numerous preclinical studies on the use of cell therapy in OA of the knee. However, few high-quality studies reported its use in the clinical setting. Jo et al.²⁹ reported the safety and efficacy of autologous adipose-derived MSCs injection, which could reduce



knee pain and improve knee function at a 2-year followup. However, a recent meta-analysis30 concluded that MSCs only significantly impacted self-reported physical function but not self-reported pain level. Furthermore, the functional benefit could only be demonstrated in patients who underwent concommitant surgery. Another review,³¹ involving 18 clinical studies (including 4 RCTs), concluded that there are promising results in terms of safety and effectiveness of BMAC injections for the treatment of OA of the knee.

Tendon Injury

A recent systematic review 8 low-quality studies on the use of stem cells in rotator cuff tear, Achilles tendon injury, patellar tendinopathy and elbow tendinopathy, concluded that there is only level 3 evidence to support the efficacy of stem cell therapy for tendon disorders. Evidence-based recommendations for the use of stem cell therapy for tendon disorders in clinical practice cannot be made³² due to considerable risk of bias in current available studies.

Controversies

There is still limited evidence to support the large-scale use of stem cell therapy in musculoskeletal disease in view of significant heterogeneity among the studies, the small sample size, short-term follow-up, and overall poor methodology in the currently available studies. Many aspects remain to be clarified in order to optimise the potential of stem cell use in musculoskeletal disease, including long-term safety, method of harvest and preparation, dosage of injection, timing of injection, and delivery method.

CONCLUSION

There is growing interest in the clinical use of hyaluronic acid injection and biological therapies in musculoskeletal disease. Studies show there is positive result in terms of safety and clinical efficacy. However, there is still a significant knowledge gap before we could rationalise their generalised use in clinical practice. Clinicians must be well-equipped with the scientific evidence when counselling a patient about the use of these modern nonsurgical treatment options for musculoskeletal disease.

References

- Fakhari A, Berkland C. Applications and emerging trends of hyaluronic acid in tissue engineering, as a dermal filler and in osteoarthritis treatment. Acta Biomater 2013;9:7081–92.
- Band PA, Heeter J, Wisniewski HG, Liublinska V, Pattanayak CW, Karia RJ. Hyaluronan molecular weight distribution is associated with the risk of knee osteoarthritis progression. Osteoarthr Cartil 2015;23:70–6.
- E.A. Balazs, J.L. Denlinger. Viscosupplementation: a new concept in the treatment of osteoarthritis. J Rheumatol Suppl 1993;39:3-9.
- E.A. Balazs. Viscosupplementation for treatment of osteoarthritis: from initial discovery to current status and results. Surg Technol Int 2004;12:278-
- Campbell KA, Erickson BJ, Saltzman BM, Mascarenhas R, Bach BR Jr, Cole BJ, Verma NN. Is local viscosupplementation injection clinically superior to other therapies in the treatment of osteoarthritis of the knee: a systematic review of overlapping meta-analyses. Arthroscopy. 2015;31(10):2036-45.
- Hochberg MC, Altman RD, April KT, Benkhalti M, Guyatt G,McGowan J, Towheed T,Welch V, Wells G, Tugwell P. American College of Rheumatology 2012 recommendations for the use of nonpharmacologic and pharmacologic therapies in osteoarthritis of the hand, hip, and knee. Arthritis Care Res (Hoboken). 2012;64(4):465-74.
- Bellamy N, Campbell J, Robinson V, Gee T, Bourne R, Wells G. Viscosupplementation for the treatment of osteoarthritis of the knee. Cochrane Database Syst, Rev. 2006 Apr 19;2:CD005321.

- 8. Bhandari M, Bannuru RR, Babins EM, Martel-Pelletier J, Khan M, Raynauld JP, Frankovich R, Mcleod D, Devji T, Phillips M, Schemitsch EH, Pelletier JP. Intra-articular hyaluronic acid in the treatment of knee osteoarthritis: a Canadian evidencebased perspective. Ther Adv Musculoskelet Dis. 2017;9(9):231-46.
- Bannuru RR, Schmid CH, Kent DM, Vaysbrot EE, Wong JB, McAlindon TE. Comparative effectiveness of pharmacologic interventions for knee osteoarthritis: a systematic review and networkmeta-analysis. Ann InternMed 2015:162:46-54.
- 10. Bannuru RR, Osani M, Vaysbrot EE, McAlindon TE. Comparative safety profile of hyaluronic acid products for knee osteoarthritis: a systematic review and network meta-analysis. Osteoarthr Cartil 2016;24:2022–41.
- 11. Kolasinski SL, Neogi T, Hochberg MC, et al. 2019 American College of Rheumatology/Arthritis Foundation guideline for the management of osteoarthritis of the hand, hip, and knee. Arthritis Care Res (Hoboken) 2020:72:149-162.
- 12. Arthroscopy Association of Canada, M. Kopka, B. Sheehan, R. Degen, I. Wong, L. Hiemstra, O. Ayeni. Arthroscopy Association of Canada position statement on intra-articular injections for knee osteoarthritis. Orthop J Sports Med, 2019;7:2325967119860110
- 13. Henrotin Y, Raman R, Richette P, Bard H, Jerosch J, Conrozier T. Consensus statement on viscosupplementation with hyaluronic acid for the management of osteoarthritis. Semin Arthritis Rheum. 2015;45(2):140-
- Richette P, Chevalier X, Ea HK, Eymard F, Henrotin Y, Ornetti P. Hyaluronan for knee osteoarthritis: an updated meta-analysis of trials with low risk of bias. RMD Open. 2015;1(1):e000071.
- 15. Brown GA. AAOS clinical practice guideline: treatment of osteoarthritis of the knee: evidence-based guideline, 2nd edition. J Am Acad Orthop Surg. 2013;21(9):577-9.
- Willits K, Kaniki N, Bryant D. The use of platelet-rich plasma in orthopedic injuries. Sports Med Arthrosc Rev 2013;21:225–30.
- Zhang JY, Fabricant PD, Ishmael CR. Utilization of Platelet-Rich Plasma for Musculoskeletal Injuries: An Analysis of Current Treatment Trends in the United States. Orthop J Sports Med 2016;4:2325967116676241.
- Cerza F, Carni S, Carcangiu A. Comparison between hyaluronic acid and platelet-rich plasma, intra-articular infiltration in the treatment of gonarthrosis. Am J Sports Med. 2012;40(12):2822-2827.
- Patel S, Dhillon MS, Aggarwal S, Marwaha N, Jain A. Treatment with platelet-rich plasma is more effective than placebo for knee osteoarthritis: a prospective, double-blind, randomized trial. Am J Sports Med. 2013;41(2):356-364.
- Sanchez M, Fiz N, Azofra J. A randomized clinical trial evaluating plasma rich in growth factors (PRGF-Endoret) versus hyaluronic acid in the short-term treatment of symptomatic knee osteoarthritis. Arthroscopy. 2012;28(8):1070-1078.
- Filardo G, Kon E, Pereira Ruiz MT. Platelet-rich plasma intra-articular injections for cartilage degeneration and osteoarthritis: single- versus double-spinning approach. Knee Surg Sports Traumatol Arthrosc 2012;20:2082-91.
- Vaquerizo V, Plasencia MÁ, Arribas I. Comparison of intra-articular injections of plasma rich in growth factors (PRGF-Endoret) versus Durolane hyaluronic acid in the treatment of patients with symptomatic osteoarthritis: a randomized controlled trial. Arthroscopy 2013;29:1635-43.
- Johal H, Khan M, Yung SP, Dhillon MS, Fu FH, Bedi A, Bhandari M.
 Impact of Platelet-Rich Plasma Use on Pain in Orthopaedic Surgery: A
 Systematic Review and Meta-analysis. Sports Health. 2019;11(4):355-366.
 Houck DA, Kraeutler MJ, Thornton LB, McCarty EC, Bravman JT.
 Treatment of Lateral Epicondylitis With Autologous Blood, Platelet-Rich
 Plasma, or Corticosteroid Injections: A Systematic Review of Overlapping
 Motoralized Collaboration Country of Sports Medicine 2010 Meta-pairs. Meta-analyses. Orthopaedic Journal of Sports Medicine. 2019 March.
- Andriolo L, Altamura SA, Reale D, Candrian C, Zaffagnini S, Filardo G. Nonsurgical Treatments of Patellar Tendinopathy: Multiple Injections of Platelet-Rich Plasma Are a Suitable Option: A Systematic Review and Meta-analysis. The American Journal of Sports Medicine. 2019;47(4):1001-
- 26. An-Katrien Nauwelaers, Loïc Van Oost, Koen Peers, Evidence for the use of PRP in chronic midsubstance Achilles tendinopathy: A systematic review with meta-analysis, Foot and Ankle Surgery, 2020.
- Caplan A. What are MSCs therapeutic? New data: new insight. J. Pathol. 2019;217:318-324.
- Caplan AI, Correa D. The MSC: an injury drugstore. Cell Stem Cell 2011;9(1):11-15.
- 29. Jo CH, Chai JW, Jeong EC. Intra-articular Injection of Mesenchymal Stem Cells for the Treatment of Osteoarthritis of the Knee: A 2-Year Follow-up Study. The American Journal of Sports Medicine. 2017;45(12):2774-2783.
- Bhargavi Maheshwer, Evan M. Polce, Katlynn Paul, Brady T. Williams, Theodore S. Wolfson, Adam Yanke, Nikhil N. Verma, Brian J. Cole, Jorge Chahla, Regenerative Potential of Mesenchymal Stem Cells for the Treatment of Knee Osteoarthritis and Chondral Defects: A Systematic Review and Meta-analysis, Arthroscopy: The Journal of Arthroscopic & Related Surgery. 2021;37(1):362-78.
- 31. Cavallo, C., Boffa, A., Andriolo, L. Bone marrow concentrate injections for the treatment of osteoarthritis: evidence from preclinical findings to the clinical application. International Orthopaedics (SICOT). 2021;45:525–38.
- Van den Boom NAC, Winters M, Haisma HJ, Moen MH. Efficacy of Stem Cell Therapy for Tendon Disorders: A Systematic Review. Orthopaedic Journal of Sports Medicine. 2020 April.

WWW.HKLAX.ORG



Hong Kong U21 Team

2022 World Lacrosse Men's U21 World Championshipis taking place in Limerick, Ireland! The Hong Kong U21 Team will compete with other 22 countires in Auguest next year.

HKLA Gym & Strength & Conditioning Team

The gym was designed and built for the needs of an elite Lacrosse program and this space is for the exclusive use of players in our elite programs.

Our S&C coaches works to equip our players with specific trainning program, so to improve althletes preformance on the field.





New HKLA Membership available in Aug













Taking Your Practice on to the Field

Dr Jonathan YUEN

MBBS, FHKAM (Orthopaedic Surgery), FRCSEd (Orth) Master in Sports Medicine and Health Science, CUHK Master in Public Health, HKU

Associate Consultant, Department of Orthopaedic and Traumatology, Tseung Kwan O Hospital Team Doctor, Hong Kong Lacrosse Association (HKLA)



Dr. Jonathan VI IEN

I am Dr Jonathan Yuen, an associate consultant in the Department of Orthopaedic and Traumatology in Tseung Kwan O Hospital, but at the same time, I am also the team doctor of Hong Kong Lacrosse Association (HKLA) since 2013.

American Academy of Orthopedic Surgeons (AAOS) has a definition for "Team Doctor" - Team doctors carry the leadership role in the organisation, management and provision of care to athletes involved in individual, team or mass-participation sporting events.

That is the official answer for what a team doctor does; but in most cases, as it is with me, working with a sports organisation as a physician, we learn our role by fulfilling it as we go along.

When I look back at my personal journey of learning to be a team doctor, I saw myself going through three main phases, which I would like to share with you here.



PHASE ONE: WHEN YOU FIRST STARTED...

The journey of being a team doctor starts when you decide to walk out of your consultation room and onto the field. It is a period where most of your work is reactive since you do not have much experience in this area and you are constantly in a problem-solving mode.

Here are a few key features that I think are important in this phase.

Knowing the Sport

You need to know what to expect and look for when you are working with athletes, as knowing the sport allows you to understand the needs of the athletes and to establish a better rapport with them when they come to you for help. Better understanding of the sports and needs of athletes also reduces mental stress on yourself when you are doing sideline support on the field, when a million things are happening simultaneously, especially for team sports. The more you know the sport, the more you know where and what you should put your focus on.

Working with Various Stakeholders

Rather than just working with fellow doctors and nurses who usually speak the same language as you working with a sports team means working with coaches, trainers, athletes, physiotherapists, team managers and administrative staff. Each and every stakeholder has their agenda, priorities and preferred way of communication. If you aspire to be an effective team doctor, you need to juggle your way through these various team members and bring your priority, which is the well-being of the athletes, to the negotiation table and hold your ground.

Understand your Limits and Appreciate all Knowledge and Methods Available

Sports medicine is an ever-evolving science, and athletes search for anything that can make them perform better. As a team doctor, you need to be humble about the fact that you do not know all the possible treatments in the world. Instead of saying "no" to things you are not familiar with, you should use your knowledge to help the athletes to pick the best informed choice for them, even when it may not be the one that you learned from medical school. I always felt like a team doctor; I learn more from my athletes, trainers, and therapists than myself.

Establish a Vibe as a Team Physician

In order for the team to work with you, they will need to know what to expect from you. So be proactive and upfront about why you are here, be consistent with your work and always keep your doors open. Your proactivity and open mind will encourage



communication, which in time will establish not just your authority in the team but also the trust in you.

Once you have defined your identity as a team doctor, having a hold of what you do on and off the field and gaining your team's trust, you will move on to the next phase.



PHASE TWO: WHEN YOU BECOME A VETERAN...

In this phase, you are at ease in handling most complaints and needs from the team, so you start to have the mental capacity to think further about making your life easier. The team doctor at this stage should be taking a more leading role in the team and try to be more proactive by foreseeing problems before they arise.

Key features in this phase include:

Be a Good Lobbyist

You need to convince your team the medical side of the game is almost as important as the game itself. Put injury prevention programmes in place, add them into drills in practices. Get the resources from your association to drive various programmes and policies like pre-season screening, athletes education and getting different expertise into your medical team. Coaches and players also have to be on board to ensure the best compliance and greatest impact from your work.

Team-building

Supporting a sports team is not a one-man job (if possible); you need to build your own team of personnel to help you do your job while not forgetting to help them develop affection and passion towards the sports team. What sort of help you need will be determined by how well you know the strength and weaknesses of yourself, and the need of your athletes. It can vary from physiotherapist, sports trainer, and strength & conditioning coaches, etc.

Cultivate Every Individual Relationship

You need to know your athletes and even coaches well enough for them to approach you when they have a problem. You need to know them and the team well enough to let them believe you will understand their situation no matter if it is a sports injury or bigger tasks such as advice on practice planning or anti-doping issues.

Close-loop Communication

Adding onto the previous point, all actions and policies a team doctor makes affect everyone in the team or association; therefore, continuous feedback from your players, coaches, therapists, managers and office staff is of utmost importance to avoid any misunderstanding and to allow fine-tuning of your work.

If you can juggle all of the above agendas, you would have become a valuable member of the team and, to a certain extent, have lived up to the definition of "team doctor" from AAOS.



PHASE THREE: WHEN YOU ARE RUNNING OUT OF THINGS TO DO...

Now you are at a stage where you feel comfortable in the team and association. Everyone values your opinion and follows your lead; with a strong comprehensive medical team supporting your work, you are more hands-off in terms of day-in-day-out matters.

One can certainly stop there; no one could blame you for sitting back a bit enjoying the fruits of your work. But given a team doctor is surrounded by athletes and coaches who are endlessly chasing after better performance and better results, you certainly will be infected with that mentality and would undoubtedly look forward to what should be the next step to take to better yourself.

Personally, I am still exploring as I go along, working with the belief that I need to develop sustainability,



meaning if one day I am no longer with the team, systems and workflows would have been set in place, and my physical presence and contribution will no longer be essential.

Since there is still so much more to be done, I have not rendered myself completely redundant yet. Here I will share a few things I am doing or planning to do.

Injury Reporting and Management Framework

Currently, Hong Kong Lacrosse Association is running a self-developed web-based platform called Sports Injury Management System, aka SIMS, to help our medical team to manage all our players in the elite programmes.

Some of the functions of the platform include:

- Keeping a record of all pre-participation screening forms and assessments, allowing easy review of players' background and past histories for management of any new injuries.
- Injury reporting, which can be done by players or therapist/coaches, aiming to encourage players to have the habit of coming forward to seek help earlier after an injury. Injury data collected will also be reviewed and analysed after each season to facilitate better programme planning and injury prevention measures.
- 3. Via SIMS, various parties including doctor, therapists, coaches and players can communicate with each other concerning the management of an active injury in a player. SIMS facilitates a multi-disciplinary approach to treatment and rehabilitation of the injured, in an attempt to achieve seamless flow from the time of injury to the day of a full return to the sport. Out of concern for patient privacy, different personnel will be granted different levels of access to information.
- 4. Via the system, sorting of manpower for onthe-field support for all practice sessions and tournaments, and performing the accounting work for claim forms for expenses, thus greatly reducing the number of emails, WhatsApp and paperwork throughout a busy season.

Sideline Support / First-Aid Education

Education will no longer be just to players, but to other team members including coaches, trainers and staff who run the association's programmes of different skill levels. Reaching out to as many stakeholders as possible is one way to cultivate the awareness of the medical part of the sport.

Find your Successors

Always look for someone to take your job; it can be from within your supporting team by gradually letting individuals take the lead and ownership of the work, or from outside, by promoting your sport and by sharing what you do every time you have the chance. Mentor that person and leave nothing to yourself.

Finally, I have to say the paycheque of a team doctor is in the currency of the success of your athletes, the trust your coaches and team members have in you, and the enjoyment of working with the people you have surrounded yourself with. As a medical practitioner, I feel there is no better form of reward than that.



Fig. 4. 2017 FIL Women's World Lacrosse Championship. Surrey, UK (Photo from personal collection)

The Revelation: Myths of a Doctor's Daily Routine at the HKSI

Dr Bryan Siu-fung LAU

MBChB (CUHK), DFM (HKCFP), MScSMHS(CUHK)

Honorary Clinical Assistant Professor, The Jockey Club School of Public Health and Primary Care, Faculty of Medicine, The Chinese University of Hono Kono

The Chinese University of Hong Kong Part-time Lecturer, Department of Orthopaedics and Traumatology, Faculty of Medicine,

The Chinese University of Hong Kong



Dr Bryan Siu-fung LAU

INTRODUCTION

After receiving the Master of Science degree in Sports Medicine and Health Science at the Chinese University of Hong Kong, I had the fortune to practise Sports medicine in various capacities. Eventually, I worked closely with elite athletes at the Hong Kong Sports Institute (HKSI). The HKSI was a 'mysterious sports palace' to me and many others, including young medical professionals interested in making Sports medicine their future career path. In this article, I will introduce the salient features in the doctor's roles and responsibilities at the HKSI, as opposed to providing care in the form of a once-off medical opinion for an athlete's injury or illness.

Designated by the HKSAR Government to provide a high-performance training system for eligible sports, the HKSI currently supports over 1,200 Scholarship Athletes (including para sports). A variety of clinical services are provided, including regular outpatient clinic consultation, periodic health evaluation and outreaching medical team support for the HKSAR teams in major national games.

The mixed clinical complaints of illnesses and injuries in the HKSI outpatient clinic are extraordinary. The patient group consists of young active elite athletes who are highly motivated and goal-oriented, having a congested training schedule and frequent overseas travelling plans. Given that the sports coach and the relevant sports association are also involved in the decision-making process, medical advice is usually based on teamwork approach.

SPECTRUM OF ILLNESSES IN SPORTS MEDICINE

The most common cause of acute illness is an upper respiratory tract infection, followed by an infection of the digestive system, skin or subcutaneous tissues, and particularly among the para sports athletes, the genitourinary system. The disease pattern in the HKSI Clinic is very similar to the epidemiology of acute illness in elite-level athletes during an international competition¹. Although it is commonly treated as a minor health issue in public, acute infective illness results in a significant health burden to the athlete. The detrimental effects on athletes include subsequent reduction in sports performance due to muscle wasting and to a decrease in isotonic and isometric muscle strength⁴, an interruption to the training timetable and an increase in the likelihood of injury during the

competition.⁵ Some athletes may even end up missing important competitions which have been prepared for over the years.

The majority of acute infective illnesses could be prevented. In order to prevent the athlete from getting sick, education, promotion and execution of evidencebased infection control policy such as hand hygiene and massive vaccination are important at the HKSI. Even as common as the influenza vaccination, the doctor will need to be cognizant of athlete-specific factors, such as planning vaccination in the context of peak training or the tapering period before a major competition; discussions will likely involve shared decision making with the athlete and the coach. It also becomes extremely crucial to quickly identify and isolate the sick athlete who is potentially infected by Coronavirus (COVID-19) since the year 2020, in order to protect not only the sick athletes but also their teammates, coaches, staff and other athletes who are staying on the same campus during the lockdown periods. As a gatekeeper and medical supervisor, the doctor at the HKSI should also be equipped with excellent communication skills to form close teamwork with the administrative staff, athletes, and coaches at the HKSI to execute these preventive strategies effectively.

SPECTRUM OF INJURY IN SPORTS MEDICINE

Apart from taking care of acute general infective illnesses, a classic clinic day at the HKSI would also involve providing medical consultation on acute and chronic sport-specific musculoskeletal injuries. For example, head concussion with the need of interval SCAT5 assessment for Rugby player; or tenderness over tibial tuberosity, which is compatible with Osgood Schlatter Disease among the growing adolescent athletes. Fortunately, we have a great multidisciplinary professional team at the HKSI working together for athletes' injury prevention, management, rehabilitation and preparation for return to play; this team consists of an Orthopedic Surgeon, Sports Physiotherapist and Strength and Conditioning Coach. As the head coach is directly responsible for the athlete's training and performance, it is essential to include their opinion in the decision making of management and rehabilitation plan, which is also the key to success for ensuring the athlete's compliance. The typical dilemma in discussion with the athlete and coach is: Time for rehabilitation and health versus Time for training and medal. In the negotiating process, the doctor MUST be well familiar with the athlete and understand the uniqueness of



sports culture, working out of the comfort zone and shouldering the team's burden in order to establish good rapport. While speaking the same 'sports language', being compassionate in the discussion and actively participating as part of the team are essential, we, as healthcare providers, should prioritise the athlete's health securely and ethically at the same time.⁶

We cannot know everything. The knowledge of Sports medicine has grown broadly that we could not provide the best health care to our athlete's injury without strong team support anymore, which is very much like participating in a sports team. As the case-in-charge and coordinator, doctors at the HKSI should take care of the athletes in different stages from injury, recovery and return to play. By giving medical advice and initiating interdisciplinary discussion with all the experts in the Elite Training Science and Technology Division at the HKSI, we aim to provide the best customised medical care for our athletes.

PERIODIC AND PRE-COMPETITION MEDICAL ASSESSMENT

To assess the health condition of the elite athletes and ensure their safety in high performance sports, an annual health evaluation is performed from December to March every year at the HKSI. Health questionnaire, physical examination, blood and urine tests as well as resting ECG and echocardiogram are also part of the evaluation to monitor the athletes' body condition. The annual health evaluation helps to regularly assess the status of past injuries and chronic illness, screen the risk factors in sports participation (such as clinical features of Marfan's syndrome), obtain baseline testing for body condition as well as promote health education. The annual assessment also provides an opportunity to review the current medication(s) and to brief the athlete on the most updated Prohibited List from the World Anti-Doping Agency (WADA).

Ritalin, for example, a common prescription for young athletes who suffer from Attention Deficiency Hyperactivity Disorder, is one of the prohibited medications in competition under the classification Stimulants S6 in the WADA Prohibited List 2021. Application for Therapeutic Use Exemption will be submitted to the Hong Kong Anti-Doping Committee to give the athlete the authorisation to use the medication for treatment.⁸

One of the major purposes of periodic health evaluation is to identify the medical conditions that may render participation in sports contraindicated; for example, symptomatic pre-excitation with Wolff-Parkinson-White syndrome, with sudden cardiac death possibly being the first clinical manifestation. Several high-profile cases of sudden cardiac death globally and locally over recent years have stimulated a healthy debate about the pros and cons of using resting ECG in athlete's health screening. Those against it point out that there is a high false positive rate, the cost is high and undue stress may be associated with further investigations of 'abnormal' results. In contrast, those in favour of the routine use of ECG argue that it is more sensitive

and specific than the medical history and physical examination alone, and the use of "International Criteria for Electrocardiographic Interpretation in Athletes 2017" can improve the accuracy and efficacy of athlete's ECG interpretation significantly⁹. It is not uncommon to find sinus bradycardia with a heart rate around 40 per minute, or T wave inversion limited to lead V1-2 or voltage criteria of left ventricular hypertrophy in a typical athlete' ECG at the HKSI. The international criteria serve as an accessible tool to assist doctors in Sports medicine in interpreting athlete's ECG effectively, which unavoidably has become the most popular topic in the International Olympic Committee Course on Cardiovascular Evaluation of Olympic Athletes in recent years. Since 2020, a 12-lead resting ECG with interpretation using the aforementioned international criteria has been introduced as part of the periodic health evaluation and pre-competition medical assessment for elite athletes at the HKSI.

Although most medical conditions (e.g. hypertension) are not the absolute contraindications to elite sports participation, optimal control should be established prior to commencing intense training and competition; continuous medical evaluation is necessary to monitor the progress of the disease throughout the athlete's career.

CONTINUOUS EDUCATION IN SPORTS MEDICINE

Being a physician, we should equip ourselves with updated knowledge. Akin to the spirit of our athletes in the HKSAR delegate, the doctor at the HKSI should be highly motivated in continuing education and should always be hungry for the most updated evidence-based knowledge in illness and injury prevention, sports-specific disease management, rehabilitation and athletic health evaluation. All the work we have done are to prepare our elite athletes to stand proud under the flag at the medal ceremony one day.

Through attending different international conferences in Sports medicine worldwide, such as visiting the Wimbledon Stadium in the U.K., the HKSI doctor builds up a global network of friends who are experts in various subspecialties in Sports Medicine. Future collaboration with various experts in Sports medicine in terms of clinical data sharing and research on Asian athletes is much anticipated.

CONCLUSION

The job nature of a doctor at the HKSI has been evolving over the past decade, from a primary healthcare provider to a more uniquely trained Sports medicine physician, in order to satisfy the growing expectation of comprehensive care for the HKSAR team. Working on our own is far from being good enough to provide better health care; therefore, the ability to efficiently work and communicate in a multidisciplinary team setting, where the team can direct proper multi-professional teamwork for the athletes, is extremely crucial for the best of care in the outpatient service .

References

- Schwellnus M et al. IOC consensus statement on load of sport and risk of illness. Br J Sports Med 2016;50:1043-1052
- Raysmith BP, Drew MK. Performance success or failure is influenced by weeks lost to injury and illness in elite Australian Track and Field athletes: a 5-year prospective study. J Sci Med Sport 2016. Jan 7. pii: S1440-2440(15)00764-1.
- 3. Friman G, Wesslén L. Special feature for the Olympics: effects of exercise on the immune system: infections and exercise in highperformance athletes. Immunol Cell Biol 2000;78:510–22
- Weidner TG, Sevier TL. Sport, exercise, and the common cold. J Athl Train 1996;31:154-9.
- Timpka T, Jacobsson J, Bargoria V, et al. Preparticipation predictors for championship injury and illness: cohort study at the Beijing 2015 International Association of Athletics Federations World Championships. Br J Sports Med 2017;51:272-277.
- Olympic Movement Medical Code 2016. IOC Executive Board in Lausanne on 3 March 2016
- WADA Prohibited List 2021. https://www.wada-ama.org/sites/default/ files/resources/files/2021list_en.pdf
- Hong Kong Anti-Doping Committee. https://www.antidoping.hk/substances-2/therapeutic-use-exemption/criteria-for-granting-a-tue/
- Drezner JA, Sharma S, Baggish A, et al. International criteria for electrocardiographic interpretation in athletes: Consensus statement. British Journal of Sports Medicine 2017;51:704-731.



MAGNETOLITH®

Extracorporeal Magnetotransduction Therapy (EMTT®)

The most comfortable treatment with no side effects



Krath, A. et al., Journal of Orthopaedics 14(3):410-415, 2017. Electromagnetic transduction therapy in non-specific low back pain: A prospective randomised controlled

. Klüter, A. Krath, et al. (2018) Electromagnetic transduction therapy and shockwave therapy in 86 patients with rotator cuff tendinopathy: A prospective randomized controlled trial, Electromagnetic Biology and Medicine, DOI: 10.1080/15368378.2018.1499030



■ Real-time monitoring of Heart rate, Body temperature and Respiratory rate

■ Alert of too high body temperture

1>>= Hydration System

A simple laboratory-grade handheld meter for monitoring body hydration status via salivary osmolarity

■ Data can be transferred from device to mobile app via Bluetooth for data tracking



Independent Validation study by Monash University is attached in literatures



Hypotonic Drink

Using the "tonicity" principle to increase more water inside the cell so as to replace fluids lost via excessive sweating

Case study from the German and Swiss Airport Authority is attached in literatures

Scan for literatures:



ASSOCIATED MEDICAL SUPPLIES CO., LTD.

Email : sales@amscl.com Tel : 2604 9389 Address: Room 1201 Fo Tan Industrial Centre, 26 Au Pui Wan Street, Fo Tan, N.T.



Objectives:

Understand current regulatory system for healthcare professionals

Recognise key elements in a fair complaint management process and system

Familiarise with current developments in complaint management

Gain confidence in management of adverse incident with media involvement.

Establish the patients' needs through questions and listening.

· Appreciate key skills and qualities needed to handle patient complaints effectively

Jointly organised by





The Federation of Medical Societies of Hong Kong Hong Kong Society for Healthcare Mediation

Date	Topics	Speakers
17 Aug 2021	Complaint system The rights-, interest-, and power-based complaint system Complaint system design - with resolution and preventive focus	Dr. Ludwig TSOI
24 Aug 2021	Complaint – is somebody at fault? Complaint system of Medical Council and other regulatory bodies	Dr. Robert LAW
31 Aug 2021	Media in complaint Handling media in adverse events	Dr. Carl LEUNG
7 Sept 2021	Complaint management Practical tips on handling complaints and how to survive a legal action	Ms. Suk-chong LEUNG Ms. Asha SHARMA
14 Sept 2021	Complaint – what's new Just culture, open disclosure and apology handling	Dr. Kai-ming CHOW
21 Sept 2021	Patients' complaint Patients' complaint avenue in HK What motivate patients to complain What they want and deserve	Dr. Kim-lian ONG

Date: 17, 24, 31 August & 7, 14, 21 September 2021 (Every Tuesday)

Duration of session: 1.5 hours (6 sessions)

Time: 7:00 pm - 8:30 pm

Course Feature: Video lectures (with Q&A platform for participants to post the questions)

Quiz for doctors: To tie in with the CME requirements for video lectures, DOCTORS are required to complete a guiz after

the completion of each lecture

Language Media: Cantonese (Supplemented with English)

Course Fee: HK\$1,000

Certificate: Awarded to participants with a minimum attendance of 70%

Deadline: 14 August 2021

Enquiry: The Secretariat of The Federation of Medical Societies of Hong Kong Tel.: 2527 8898 Fax: 2865 0345 Email: vienna.lam@fmshk.org



The Health Benefits of Great Outdoors

Dr Lobo HT LOUIE

DPE(Springfield)
Associate Professor, Department of Sport, Physical Education & Health,
Hong Kong Baptist University



Dr Loho HT LOUIE

In Hong Kong, a total of 24 country parks have been designated for the purposes of nature conservation, countryside recreation and outdoor education. Since 1970s, these country parks have been governed by the Country Parks Ordinance, which provides a legal framework for the designation, development and management of country parks and special areas.(Fig. 1) According to the Centre for Diseases Control and Prevention of the U.S.A., spending time outdoors is a safer choice than staying indoors during the pandemic as there is less likelihood of being exposed to COVID-19 during outdoor activities. The outdoor natural environment not only offers many opportunities to be physically active, but also promotes mental health, stress reduction as well as overall wellness.2-6 Heart rate, blood pressure, and self-report measures have provided convincing evidence that spending time outdoors helps to reduce the experience of stress, and ultimately improve health.⁶ Meanwhile, the outdoor setting has also been adopted as a valuable learning site for young schoolchildren, including positive proenvironment attitudes, scientific learning, enhancement of motor fitness, and physical health.⁶⁻⁹ The outdoors can be described as an open and constantly changing environment, providing the potential for experiencing freedom, gross and boisterous movements, and contact with natural elements.¹⁰ It also allows children time for unstructured activities in nature, which is beneficial for children's positive affect, attitudes towards nature, and pro-sociality.11 (Fig. 2)

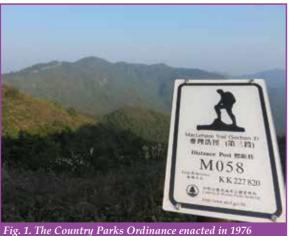


Fig. 1. The Country Parks Ordinance enacted in 1976 provides a legal framework for the designation, development and management of country parks. The MacLehose Trail (100 km) traverses the New Territories from Sai Kung in the east to Tuen Mun in the west. (Photo from personal collection)

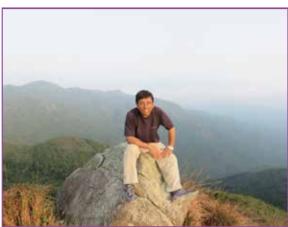


Fig. 2. Hiking is recognised to have a variety of health benefits, ranging from physical exercise one gets when out on the trail, to emotional or mental relief that comes from being in nature. (Photo from personal collection)

Research has demonstrated the health benefits of participating outdoors, specifically psychological, sociological, educational, and physical benefits. 12 Breitenstein and Ewert summarised the health benefits of the outdoor recreation model based on the previous studies, as shown in Table 1.

The green space is important for mental health; regular engagement is linked with longevity and decreased risk of mental ill-health.¹³ Being physically active outdoors has been associated with enhanced mental well-being. The older adults showed fewer depressive symptoms when they spent more time outdoors and were physically active.¹⁴ The study estimated that each additional weekly use of the natural environment could lower the risk of poor mental health by 6 per cent. 15 A multitudes analysis assessed the regime of doses of acute exposure to green exercise required to improve self-esteem and mood (indicators of mental health). The researchers utilised the meta-analysis methodology to analyse 10 studies involving 1,252 participants. The overall effect size for improved self-esteem and mood was found to be significant and showed mental benefits from engagement in green exercise.16

To summarise, the outdoors appears to be a great escape from the pandemic. Many health-related benefits can be gained through the close encounters with the natural outdoors; however, a risk management plan should be conducted in order to get everything prepared before setting out.

Medical Bulletin



Table 1: Health benefits of outdoor recreation, excerpted from "Health benefits of outdoor recreation: implications for health education" by Breitenstein and Ewert. 12

for neatth education by Brettenstein and Ewert.			
Benefits of Outdoors	Examples of Specific Health Outcomes		
Catharsis/Relaxation/ Stress Reduction/ Novelty	Opportunities for shared activities with family and friends Getting "away from it all" as a means of coping with stress A different setting allowing contemplation and a new perspective		
Fitness	Opportunities to improve cardiovascular fitness and achieve the desired weight Increased self-esteem through improved fitness and body image		
Skills: Social, Leisure, Physical	 Acquiring new skills, e.g. hiking Developing leadership skills Skills gained in problem-solving, decision making, creativity, etc. Increased congruence between values/beliefs and behaviours Increased ability to accept others and individual differences 		
Efficacy/Self- empowerment/ Confidence	Increased confidence in the ability to make decisions concerning self, others and career Ability to overcome restrictive sex role stereotyping, empowerment and network Self-actualisation and locus of control		
Transformational Cognisance: Awareness of environment and self	Sense of calm or peace when in a natural setting Cognition of interrelatedness of man and natural A sense of awe at the majesty of the universe, a sense of openness with nature and natural forces		

References

- Hong Kong: The Facts Country Parks and Special Areas. https:// www.afcd.gov.hk/english/country/cou_lea/the_facts.html. Accessed June 7, 2021.
- Frumkin H, Bratman GN, Breslow SJ, Cochran B, Kahn PH, Lawler JJ, et al. Nature contact and human health: a research agenda. Environ Health Perspect 2017; 125:075001. doi:10.1289/EHP1663.
- Oh BS, Lee KJ, Zaslawski C, Yeung A, Rosenthal D, Larkey L, et al. Health and well-being benefits of spending time in forests: systematic review. Environ Health Prev Med 2017; 22:71. doi:10.1186/s12199-017-0677-9.
- How to Be Physically Active While Social Distancing, Centers for Diseases Control and Prevention. https://www.cdc.gov/ physicalactivity/how-to-be-physically-active-while-social-distancing. html. Accessed January 19, 2021.
- Participate in Outdoor and Indoor Activities. https://www.cdc.gov/ coronavirus/2019-ncov/daily-life-coping/participate-in-activities.html. Accessed January 14, 2021.
- Coon JT, Boddy K, Stein K, Whear R, Barton J, Depledge MH. Does participating in physical activity in outdoor natural environments have a greater effect on physical and mental well-being than physical activity indoors? A systematic review. Environ Sci Tech 2011; 45:1761– 72. doi:10.1021/es102947t.
- Kondo MC, Jacoby SF, South EC, Does spending time outdoors reduce stress? A review of real-time stress response to outdoor environments, Health & Place 2018; 51: 136-150.
- Gill T, The benefits of children's engagement with nature: a systematic literature review. Children, Youth and Environments 2014; 24, 10-34. Accessed March 21, 2021. doi:10.7721/chilyoutenvi.24.2.0010.
- Bento G, Dias G, The importance of outdoor play for young children's healthy development, Porto Biomedical Journal, 2017; 2, 157-160.
- Maynard T, Waters J, Learning in the outdoor environment: a missed opportunity?, Early Years 2007; 27:3, 255-265.
- Dopko RL, Capaldi CA, Zelenski JM, The psychological and social benefits of a nature experience for children: a preliminary investigation, Journal of Environmental Psychology, 2019; 63: 134-138.

- 12. Breitenstein D, Ewert A, Health benefits of outdoor recreation: implications for health education, Health Education 1990; 21:1, 16-21, DOI: 10.1080/00970050.1990.10616165.
- Takano T; Nakamura K, Watanabe M. Urban residential environments and senior citizens' longevity in megacity areas: the importance of walkable green spaces. J. Epidemiol. Commun. Health 2002; 56, 913–18.
- Kerr J, Marshall S, Godbole S, Neukam S, Crist K, Wasilenko K, et al. The relationship between outdoor activity and health in older adults using GPS. International Journal of Environmental Research and Public Health 2012; 9:12, 4615–4625.
- Mitchell R. (2013). Is physical activity in natural environments better for mental health than physical activity in other environments? Social Science & Medicine 2012; 91: 130–134. doi:10.1016/j.soscimed.2012.04.012.
- Barton J, & Pretty J. What is the best dose of nature and green exercise for improving mental health? A multi-study analysis. Environmental Science & Technology 2010; 44:10, 3947–3955. doi:10.1021/es903183r.



THE FEDERATION OF MEDICAL SOCIETIES OF HONG KONG



















Location: 4/F., Duke of Windsor Social Service Building, 15 Hennessy Road, Wan Chai, Hong Kong

ROOM RENTAL PROMOTION Book now & get FREE 2 hours

FMSHK Member Societies are offered 2 hours FREE rental exclusively.

(Applicable to societies who haven't used the rental service before)

Suitable for Meeting / Seminar / Press Conference / Personal Gathering

Well Equipped for Rental:

Sound system: microphones /
Notebook with LCD projector /
42" TV / Broadband Internet & wifi /
Refreshment Ordering, Drinks Ordering /
Printing & Photocopy Services

Multi Function Room I



Lecture Hall



Council Chamber







Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	7	* FMSHK ASM 2021
* FMSHK ASM 2021	5	* Live Lecture HKMA - HKS&H CME Programme 2021 Topic: Surgical management of Lymphoedema (Online) * Certificate Course on Childhood Arthritis and Rheumatic Disease II	* Live Lecture Overview of Adult Attention Deficit Hyperactivity Disorder and Long-Term Management Strategy - Online	* Live Lecture Certificate Course for GPs 2021 - Management on Fungal Infections - Online	* Live Lecture Tailor-Made BPH Treatment: Data Update And Experience Sharing - Online * Certificate Course in Allergy 2021 (Video Lectures)	* Novel Diagnostic Methods and Interventions in Paediatric Radiology
	* Live Lecture Recombinant Vaccine Technology for Seasonal Influenza Prevention - Online * Certificate Course on Cytogenomics 2021 (Video Lectures)	*Live Lecture Acting on Key Factors for Hypertension Management -Online Condine Certificate Course on Childhood Arthritis and Rheumatic Disease II (Video Lectures) *Wideo Lectures General Meeting	* The Hong Kong Neurosurgical Society Monthly Academic Meeting The pain syndromes and interventions in Neurosurgery * Live Lecture HKU Bone & Muscle Health Series - Topic Technological Advances in Joint Replacement Replacement Replacement Replacement	*Live Lecture A New Perspective on Rotavirus Disease Prevention - Online	* Certificate Course in Allergy 2021 (Video Lectures)	17
<u>%</u>	* Certificate Course on Cytogenomics 2021 (Video Lectures)	*Certificate Course on Childhood Arthritis and Rheumatic Disease II (Video Lectures)	* Live Lecture HKU Bone & Muscle Health Series - Topic: Management of Sport Injury: Whaf's new in 2021? - Online	* Live Lecture COVID-19 and Update on the Management of Hypertension with Vasodilating Beta-Blockers - Online * HKFMS Foundation Meeting * FMSHK Executive Committee Meeting	* Live Lecture Weight Loss Surgery for Diabetes - Online * Certificate Course in Allergy 2021 (Video Lectures)	24
25	*Certificate Course on Cytogenomics 2021 (Video Lectures)	* Live Lecture HKMA-CHK CME Programme 2020 Topic: When medication don't work in rhinitis patients (Online) * Certificate Course on Childhood Arthritis and Rheumatic Rheumatic Disease II (Video	28	* Live Lecture Certificate Course for GPs 2021 - Update on Management of Parkinsonism - Online * Live Lecture Local Clinical Experience on Obesity Management -	* Live Lecture Fracture Prevention in Postmenopausal Osteoporosis Women * Certificate Course in Allergy 2021 (Video Lectures)	31



Date	/ Time	Function	Enquiry / Remarks
3	SAT (4 SUIN)	FMSHK ASM 2021 Organiser: The Federation of Medical Societies of Hong Kong; Format: ZOOM	Ms. Jovan CHUN Tel: 2527 8898
6	TUE 2:00 PM	Live Lecture HKMA - HKS&H CME Programme 2021 Topic: Surgical management of Lymphoedema (Online) Organiser: Hong Kong Medical Association & Hong Kong Sanatorium & Hospital Speaker: Dr CHOI Wing-kee	HKMA CME Dept. Tel: 3108 2507 1 CME Point
	7:00 PM	1 2	Ms Vienna LAM Tel: 2527 8898
7	WED 2:00 PM	Live Lecture Overview of Adult Attention Deficit Hyperactivity Disorder and Long-Term Management Strategy - Online Organiser: HKMA-CW&S Community Network Speaker: Dr Roger Man-kin NG	Ms Antonia LEE Tel: 3108 2514 1 CME Point
8	THU 2:00 PM	Live Lecture Certificate Course for GPs 2021 - Management on Fungal Infections - Online Organiser: HKMA-KLN East Community Network, HA-United Christian Hospital & HK College of Family Physicians Speaker: Dr David LÜK	Ms Elise HAW Tel: 3949 3079 1 CME Point
9	2:00 PM FRI 7:00 PM	Live Lecture Tailor-Made BPH Treatment: Data Update And Experience Sharing - Online Organiser: Hong Kong Medical Association Speaker: Dr Martin Kwok-tin WONG Certificate Course in Allergy 2021 (Video Lectures) Organiser: The Federation of Medical Societies of Hong Kong Speaker: Dr Alson WM CHAN	HKMA CME Dept. Tel: 3108 2507 1 CME Point Ms Vienna LAM Tel: 2527 8898
10	SAT 2:00 PM	Novel Diagnostic Methods and Interventions in Paediatric Radiology Organiser: Hong Kong College of Paediatricians Chairpersons: Prof Ting-fan LEUNG, Prof Winnie CHU, Dr Elaine KAN Speakers: Dr Carol NG, Dr Elaine KAN, Dr Kevin FUNG, Prof Winnie CHU	CME: HK College of Paediatricians (3 points, Category A) Ms Lily LIN Tel: 2871 8752
12	2:00 PM MON	Live Lecture Recombinant Vaccine Technology for Seasonal Influenza Prevention - Online Organiser: Hong Kong Medical Association Speaker: Dr Wilson LAM	HKMA CME Dept. Tel: 3108 2507 1 CME Point
	7:00 PM	Certificate Course on Cytogenomics 2021 (Video Lectures) Organiser: The Federation of Medical Societies of Hong Kong Speaker: Chev CHAN Wing-kwong	Ms Vienna LAM Tel: 2527 8898
13	7:00 PM 7:00 PM 9:00 PM	Live Lecture Acting on Key Factors for Hypertension Management - Online Organiser: HKMA-YTM Community Network Speaker: Dr Jason Leung-kwai CHAN Certificate Course on Childhood Arthritis and Rheumatic Disease II (Video Lectures) Organiser: The Federation of Medical Societies of Hong Kong Speaker: Dr Winnie KY CHAN, Dr Sylvia LEUNG HKMA Annual General Meeting Venue: HKMA Wanchai Premises, 5/F, Duke of Windsor Social Service Building, 15 Hennessy Road, Hong Kong	Ms Candice TONG Tel: 3108 2513 1 CME Point Ms Vienna LAM Tel: 2527 8898 Ms Candy YUEN Tel: 2527 8285
14	7:30 AM WED 2:00 PM	The Hong Kong Neurosurgical Society Monthly Academic Meeting – The pain syndromes and interventions in Neurosurgery Organiser: Hong Kong Neurosurgical Society Venue: Conference Room, F2, Department of Neurosurgery, Queen Elizabeth Hospital; or via Zoom meeting Chairperson: Dr Danny Tat-Ming CHAN Speaker: Dr HE Zhexi Live Lecture HKU Bone & Muscle Health Series - Topic: Technological Advances in Joint Replacement Surgery - Online Organiser: HKU-Dept of Orthopaedics & Traumatology, Hong Kong Medical Association & HKS St. John Ambulance Speaker: Dr Henry Chun-him FU	Dr Calvin MAK Tel: 2595 6456 1.5 CME points HKMA CME Dept. Tel: 3108 2507 1 CME Point
15	THU 2:00 PM	Live Lecture A New Perspective on Rotavirus Disease Prevention - Online Organiser: HKMA-KLN East Community Network Speaker: Dr Philip Chak-on SHAM	Ms Antonia LEE 3108 2514 1 CME Point
16	7:00 PM	Certificate Course in Allergy 2021 (Video Lectures) Organiser: The Federation of Medical Societies of Hong Kong Speaker: Dr Gilbert T CHUA	Ms Vienna LAM Tel: 2527 8898
19	7:00 PM MON	Certificate Course on Cytogenomics 2021 (Video Lectures) Organiser: The Federation of Medical Societies of Hong Kong Speaker: Dr Stephen Tak-sum LAM	Ms Vienna LAM Tel: 2527 8898
20	TUE 7:00 PM	Certificate Course on Childhood Arthritis and Rheumatic Disease II (Video Lectures) Organiser: The Federation of Medical Societies of Hong Kong Speaker: Dr Winnie KY CHAN	Ms Vienna LAM Tel: 2527 8898
21	2:00 PM WED	Live Lecture HKU Bone & Muscle Health Series - Topic: Management of Sport Injury: What's new in 2021? - Online Organiser: HKU-Dept of Orthopaedics & Traumatology, Hong Kong Medical Association & HK St. John Ambulance Speaker: Dr WONG Tak-man	HKMA CME Dept. Tel: 3108 2507 1 CME Point
22	THU 7:00 PM	Live Lecture COVID-19 and Update on the Management of Hypertension with Vasodilating Beta-Blockers - Online Organiser: HKMA-New Territories West Community Network Speaker: Dr Bernard Bun-lap WONG	Ms Antonia LEE Tel: 3108 2514 1 CME Point



Date / Time	Function	Enquiry / Remarks
22 THU	HKFMS Foundation Meeting Organiser: The Federation of Medical Societies of Hong Kong; Venue: Council Chamber, 4/F, Duke of Windor Social Service Building, 15 Hennessy Road, Wanchai, Hong Kong HKFMS Foundation Meeting Organiser: The Federation of Medical Societies of Hong Kong; Venue: Council Chamber, 4/F, Duke of Windor Social Service Building, 15 Hennessy Road, Wanchai, Hong Kong	Ms Nancy CHAN Tel: 2527 8898 Ms Nancy CHAN Tel: 2527 8898
23 FRI 2:00 PM 7:00 PM	Live Lecture Weight Loss Surgery for Diabetes - Online Organiser: HKMA-KLN City Community Network Speaker: Dr Dennis Chung-tak WONG Certificate Course in Allergy 2021 (Video Lectures) Organiser: The Federation of Medical Societies of Hong Kong Speaker: Dr Agnes SY LEUNG	Ms Candice TONG Tel: 3108 2513 1 CME Point Ms Vienna LAM Tel: 2527 8898
26 MON 7:00 PM	Certificate Course on Cytogenomics 2021 (Video Lectures) Organiser: The Federation of Medical Societies of Hong Kong Speaker: Dr Chris Tsun-leung CHAN	Ms Vienna LAM Tel: 2527 8898
27 TUE 2:00 PM 7:00 PM	Live Lecture HKMA-GHK CME Programme 2020 Topic: When medication don't work in rhinitis patients (Online) Organiser: Hong Kong Medical Association & Gleneagles Hong Kong Hospital Speaker: Dr Winnie KAN Certificate Course on Childhood Arthritis and Rheumatic Disease II (Video Lectures) Organiser: The Federation of Medical Societies of Hong Kong Speaker: Dr KWOK Piu-lee	HKMA CME Department Tel: 2527 8452 1 CME Point Ms Vienna LAM Tel: 2527 8898
29 THU	Live Lecture Certificate Course for GPs 2021 - Update on Management of Parkinsonism - Online Organiser: HKMA-KLN East Community Network, HA-United Christian Hospital & HK College of Family Physicians; Speaker: Dr CHEUNG Ka-yin Live Lecture Local Clinical Experience on Obesity Management - Online Organiser: HKMA-HK East Community Network Speaker: Dr Michele Mae-ann YUEN	Ms Elise HAW Tel: 3949 3079 1 CME Point Ms Candice TONG Tel: 3108 2513 1 CME Point
30 FRI 2:00 PM 7:00 PM	Fracture Prevention in Postmenopausal Osteoporosis Women Organiser: HKMA-Shatin Community Network Speaker: Dr Henry Wing-ming KONG	Ms Candice TONG Tel: 3108 2513 1 CME Point Ms Vienna LAM Tel: 2527 8898



PHYSIOLAB



PHYSIOLAB® S1 Portable

A Portable Solution For Cooling And Compression

















Temperature Range 6°C to 12°C (selectable in 1°C increments)

Compression Range Autogrip 25mmHg (increment 25 to 75 mmHg)





Treatment Period 5 to 30 minutes (selectable in 5 minutes increments)



Anti-Gravity Treadmill

- NASA Differential Air Pressure (DAP) technology
- Real-time gait analytics
- Live video monitoring
- Body weight supported walking, running, and closed-kinetic chain exercise



ALTER G

Answers to Dermatology Quiz

Answers:

- The diagnosis is pityriasis amiantacea, and the possible differential diagnoses include scalp dermatitis, psoriasis, seborrhoeic dermatitis and tinea capitis. Head lice and lichen simplex chronicus should also be considered. Pityriasis amiantacea is characterised by thick yellowish scales wrapping around the tufts of hairs. It may be complicated by secondary bacterial infection, especially staphylococcal infection, and by various extent of hair loss.
- 2. Pityriasis amiantacea is diagnosed by its characteristic clinical features. No investigation is needed to confirm the diagnosis. At times, fungal smear or culture may be necessary to rule out tinea capitis, and bacterial culture may be used in case of suspected secondary bacterial infection. If the patient is having pityriasis amiantacea, the most important task is to do a thorough skin examination to look for other cutaneous clues which may help to differentiate this condition from other possible associated diagnoses such as scalp dermatitis, seborrhoeic dermatitis, psoriasis, tinea capitis and so on, skin biopsy is necessary only rarely in a difficult case.
- 3. Treatment of pityriasis amiantacea depends on the specific associated diseases. In general, mineral or vegetable oil such as olive oil may help to loosen the adherent scales. Shampoo containing salicylic acid, coal tar or sulphur may reduce the scales and inflammation. Topical steroids are useful especially when the condition is associated with psoriasis or other forms of dermatitis. Oral antibiotics are needed if the secondary bacterial infection is suspected. Antifungal shampoo such as ketoconazole shampoo is often prescribed if associated with seborrheic dermatitis.

Dr Chi-keung KWAN

MBBS(HK), FRCP(Lond, Glasg, Edin), Dip Derm(Glasg), FHKCP, FHKAM(Medicine)

Specialist in Dermatology and Venereology

The Federation of Medical Societies of Hong I 4/F Duke of Windsor Social Service Building, 15 Hennessy Tel: 2527 8898 Fax: 2865 0345	Kong Road, Wanchai, HK
President Dr Mario Wai-kwong CHAK	翟偉光醫生
Ist Vice-President Prof Bernard Man-yung CHEUNG	張文勇教授
2nd Vice-President	
Dr Chun-kong NG Hon. Treasurer	吳振江 醫 生
Mr Benjamin Cheung-mei LEE Hon. Secretary	李祥美先生
Dr Ludwig Chun-hing TSOI	蔡振興醫生
Immediate Past President Dr Raymond See-kit LO	勞思傑醫生
Executive Committee Members Dr Jane Chun-kwong CHAN Dr Kingsley Hau-ngai CHAN Dr Kai-ming CHAN Dr Alson Wai-ming CHAN Dr Alson Wai-ming CHAN Dr Peggy Sau-kwan CHU Dr Samuel Ka-shun FUNG Ms Ellen Wai-yin KU Dr Haston Wai-ming LIU Dr Desmond Gia-hung NGUYEN Dr Kwai-ming SIU Dr Tony Ngan-fat TO Mr William TSUI Dr Victor Hip-wo YEUNG Ms Tina WT YIP Dr Edwin Chau-leung YU Ms Manbo MAN (Co-opted) Dr Wilfred Hing-sang WONG (Co-opted) Founder Members British Medical Association (Hong Kong Brar 英國醫學會(香港分會) President Dr Raymond See-kit LO Vice-President Dr Adrian WU Hon. Secretary Dr Terry Che-wai HUNG Hon. Treasurer Dr Iason BROCKWELL	陳東原東陳陳朱鴻縣 生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生
Dr Jason BROCKWELL	
Council Representatives Dr Raymond See-kit LO Dr Tse-ming CHEUNG Tel: 2527 8898 Fax: 2865 0345 The Hong Kong Medical Association 香港醫學會	勞思傑醫生 張子明醫生
President	
Dr CHOI Kin	蔡 堅醫生
Vice- Presidents	
Dr Chi-man CHENG Dr Siu-king MAK	鄭志文醫生 麥肇敬醫生
Hon. Treasurer	× 平 × 日 工
Dr Victor Hip-wo YEUNG	楊協和醫生
Hon. Secretary Dr James Tak-kwan FUNG	馮德焜醫生
Council Representatives	109 応光酉主
Dr Victor Hip-wo YEUNG	楊協和醫生
Chief Executive Ms Jovi LAM Tele 2527 8285 (General Office) 527 8324 / 2556 9388 (Club House in Wanch Fax: 2865 0943 (Wanchai), 2336 9398 (Central) Email: hkma@hkma.org Website: http://www.h	
The HKFMS Foundation Limited 香港醫學 Board of Directors	組織聯曾基金
President	
Dr Mario Wai-kwong CHAK	翟偉光醫生
Ist Vice-President Prof Bernard Man-yung CHEUNG	張文勇教授
2nd Vice-President	
Dr Chun-kong NG Hon. Treasurer	吳振江醫生
Mr Benjamin Cheung-mei LEE	李祥美先生
Hon. Secretary Dr Ludwig Chun-hing TSOI	蔡振興醫生
Directors Directors	小瓜犬間上
Mr Samuel Yan-chi CHAN Dr Samuel Ka-shun FUNG Ms Ellen Wai-yin KU Dr Raymond See-kit LO Dr Aaron Chak-man YU	陳恩賜先生 馮加信醫生 顯慧賢女士 勞思東 祭則文醫生



With Relvar, 25% more patients improve and achieve well-controlled asthma vs Bud/For and other ICS/LABAs in everyday practice^{3,4}



Long-lasting molecules with sustained efficacy over 24 hours^{2,5}



Improves all aspects of the ACT⁶



High airway protection with low systemic effect7



Good adherence with an easy-to-use device8,9

If your asthma patients need an ICS/LABA, consider once-daily Relvar for proactive asthma control that lasts5,10



RELVAR ELLIPTA fluticasone furoate and vilanterol inhalation powder

Hypothetical patient used for illustrative purposes only

ne primary endpoint was the proportion of patients who achieved an improvement in ACT score from baseline of ≥3 or a total ACT score of ≥20 in patients in the PEA population initiated on Relvar vs continuing on usual care at 24 weeks. The primary endpoint was met (p<0.001). Data presented are from a subset of patients prescribed ICS/LABA at baseline who were initiated on Relvar or continued on their ICS/LABA. Data showed a relative difference of 25% and an absolute difference of 14%.

Bud/For: Budesonide/Formoterol

References: 1. Global Datasheet Fluticasone furoate/vilanterol: v11, March 2020. 2. Bardsley G, et al. Respir Res 2018;19:133. 3. Woodcook A, et al. Lancet 2017;390:2247-2255. 4. GSK Clinical report, HZA 115150;2017. Assessed on April 2021. 5. Berslein DL, et al. J Ashtma 2015;52:1073-1083. 6. Svedsater H, et al. Respir Med 2018;141:198-206. 7. Daley-Yates P, et al. Br J Clin Pharmacol 2020;1-11. 8. Pariml M, et al. Adv Ther 2020;37:2916-2931. 9. Svedsater H, et al. NPJ Prim Care Respir Med 2014;24:14019. 10. Relvar (Fluticasone Furoate/Vilanterol) Hong Kong Prescribing Information HK102018 (GDS) of EMC20180924).

RELVAR ELLIPTA ARRREVIATED PRESCRIBING INFORMATION

NAME OF THE PRODUCT RELIANE ELIPTA QUALITATIVE AND QUANTITUTATIVE COMPOSITION
Pre-dispensed dose of 100 mop or 200mop of fluidicesone functe and 25 mop vilantero (as trifenatate),
Inhalation powder, INDICATIONS Adema Relvar Elipta 100/25mag & 200725mag is indicated for
the regular treatment of asthma in adults and adolescents aged 12 years and older where use of a
combination medical product (long-acting beta, agonist and inhalad controlescentic) is appropriate
- patients not adequately controlled on both inhalade controlescentic of an object of the composition of the control of the c o mid dose of inhaled corticosteroid in combination with a long-acting beta2-agonist, If patients are nadequately controlled on Relvar Ellipta 100/25mcg, the dose can be increased to Relvar Ellipta to mit ober of minated controleration for orientation with a long-altering please-approach, pleasered as inabequisely controlled on Review Ellipsia 100/25meg, the locks can be increased to Review Ellipsia of Controlled on Review Ellipsia 100/25meg, the locks can be increased to Review Ellipsia of the controlled on Review Ellipsia of the Controlled on Review Ellipsia of the Controlled on Review Ellipsia in the Review Ellipsia of the Review Ellipsia in the Review Ellipsia must be used regularly, even when asymptomatic. Patients should be made aware that Review Ellipsia must be used regularly, even when asymptomatic. Patients should be regularly reviews to any any ellipsia must be used regularly, even when asymptomatic. Patients should be regularly reviews to any of the exclipsional should the strength of Review Ellipsia they are receiving remains optimal and is only changed on medical advice. CONTRANDIATIONS hypersensitivity to the active substances to any of the exclipsional should be reviewed by a physician. Patients also all the reviewed the Review Ellipsia. Patients should not stop therapy with fluidicasone furoate/vilanteed in asthma or COPO, without physician appreciain on stop symptoms or an acute broncholdators to nelve symptoms includes deterioration of control and patients also sould be reviewed by a physician. Patients should not stop therapy with fluidicasone furoate/vilanteed in asthma or COPO, without physician patients should be saided to continue texterent but to see emissional controlled and patients also and the controlled patients are statement uncorrolled or worsen after initiation of treatment with Relivar Eliptia. <u>Patients of terrolled protects of the reviewed to more and excercitions and excercitions and excercitions and excercitions and excercitions and excercitions are the seed of the reviewed terrolled invended by an acute of the excercition of the excercition of the excercing attentation. The st</u> ient assessed and alternative therapy instituted if necessary. Cardiovascular effects immediately, the patient assessed and autentative uneapy insurance in necessary, saturatespaces uneap-Cardiovascular effects, such as cardiac arritythmise, e.g. paymeentricular factoryardia and extrasystoles may be seen with sympathomimetic medicinal products including Rehar Ellipta, Therefore fullcasone transfer villaments should be used with caution in patients with severe cardiovascular disease, or hard rhythm abnormalities, thyrotoxicosis, uncorrected hypokalaemia or patients predisposed to low levels of

errum potassium. <u>Statemic corticosteroid affacts.</u> Systemic affects may occur with any inhaled corticosteroid, particularly at high does prescribed for long periods. These effects are much less likely to control to the properties of the properties of the properties. The properties of the properti benefit of breast-feeding for the child and the benefit of therapy for the woman. ADVERSE REACTIONS Pneumonia, upper respiratory tract infection, bronchitis, influenza, candidiasis of mouth and throat, headachi Pheumonia, upper respiratory tract refection, bronchilsis, influenza, carididisasis of mouth and throat, headache, excharşotlelae, nasopharynglis, condyargealej pain, silinsistic, plantynglisi, finitialis, cough, dysphoria, abdominal pain, arthralgia, back pain, fractures, muscle spasms, pyrexia, OVERDOSE There is no specific treatment for an oversice with fullcascene furnater of language for processing the processing of the processing o

Please read the full prescribing information prior to administration.
Full prescribing information is available on request from
Full prescribing information is available on request from
SmithViller Ltd. 25F. Furver 6. The addressy of Janche Road, Taimsthauil, Kowloon, Hong Kong
or Level 20, AH Tower, Nos 25F.-301 Aventids Commercial de Macau, Macau.
Nerse event reporting, please call ClausomithViller Limited at (852) 3189 8980 (Hong Kong)
(or (853) 2671 5589 (Macaul)), or send an email to us at KM-AdversectiverRighs.com.

RELVAR ELLIPTA SAFETY INFORMATION

Safety Profile of Relvar Ellipta Inhalation Powder, Pre-dispenser 25 mcg (100/200 mcg fluticasone furoate and 25 mcg vilanterol) ed 100 mcg/25 mcg and 200 mcg/

Hypersensitivity to the active substances or to any of the excipients is contraindicated to Relvar

- Relvar should not be used to treat acute asthma symptoms, for which a short-acting bronchodilator

- to required.

 Relear should be used with caution in patients with severe cardiovascular disease, pulmonary tuberculois or in patients with chronic or untreated infections.

 Systemic effects may occur with any inhaled controsteroids, particularly at high doses prescribed for long periods. Possible systemic effects include (subhing's syndrome, Custingoid features, adrenal appression, growth retriated in in children and adelectories and decrease in boar mineral density.
- · Patients should not stop therapy with Relvar in asthma without physician supervision,

Adverse effects observed with Relvar in clinical studies and post-marketing		
Frequency Category	Number of Subjects	Adverse reaction(s)
Very common	≥1/10	Headache, nasopharyngitis
Common	≥1/100 to <1/10	Pharyngitis, rhinitis, candidiasis of mouth and throat, pneumonia, arthralgia, pyrexia
Uncommon	≥1/1,000 to <1/100	Extrasystoles
Rare	≥1/10,000 to <1/1,000	Hypersensitivity reactions including anaphylaxis, angloedema, rash, and urticaria, Palpitations

If symptoms arise in the period between doses, an inhaled, short-acting beta-agonist should be taken for immediate relief. Relvar Ellipta was developed in collaboration with INNOVIVA

COMBAT PAIN WITH Celebrex® and Lyrica®



Well-tolerated Relief of Nociceptive Pain¹



Fast onset of pain relief as early as 22 minutes, sustained for up to 24 hours ²



Fewer upper and lower GI events compared with NSAIDs + PPI 3.4



Noninferior CV safety compared with ibuprofen or naproxen ⁵

First-line Treatment for Neuropathic Pain 6.7





Rapid and sustained pain relief from Day 28



Low potential for pharmacokinetic interactions ⁷



Significantly improved pain-related sleep interference and anxiety 9

 $\textbf{Abbreviations:} \ \textbf{CV=} \textbf{cardiovascular;} \ \textbf{Gl=} \textbf{gastrointestinal;} \ \textbf{NSAID=} \textbf{non-steroidal anti-inflammatory} \ \textbf{drug;} \ \textbf{PPI=} \textbf{proton pump inhibited} \ \textbf{proton pump inhibited} \ \textbf{drug;} \ \textbf{PPI=} \textbf{proton pump inhibited} \ \textbf{proton pump inhibited} \ \textbf{drug;} \ \textbf{PPI=} \textbf{proton pump inhibited} \ \textbf{drug;} \ \textbf{drug;}$

References 1. Celebre (Celecoxil) Prescribing Information. Visitis Healthcare long King Limited Version May 2019 2. Cheung 8, Kinhawawan I. Kowalski K. Anglaysic efficacy of celecoxils in postoperative on laurgery pain. a single-dose, two-center, andomized, adult-blind, adult-b

ELBBEKT SUMMAPY OF PRODUCT INFORMATION 1. TRADE NAME. Clebve 2. PRESENTATION capales contain either 100mg 200mg or cleaved 18. NOIACTIONS. Adult For the management of the gins, and symptoms of network that the spiral of the production of the spiral of th

VINICA S UNIMARY OF PRODUCT INFORMATION 1. TRADE NAME: IVISCA 2. PRESENTATIONS: Each Lyric hard capsule contains 25mg, 55mg, 75mg, 10mg, 25mg, 20mg, 20 florg, 20 flor

FULL PRESCRIBING INFORMATION IS AVAILABLE UPON REQUEST.

Viatris Healthcare Hong Kong Limite



