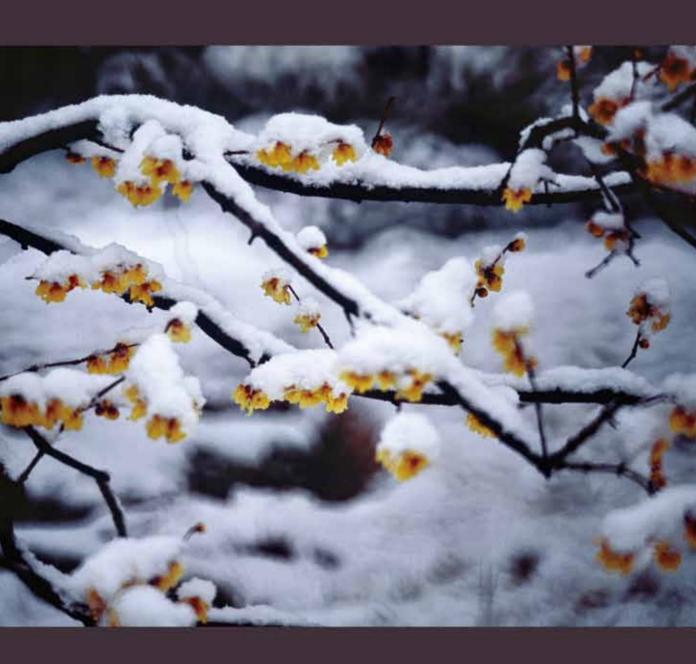


THE HONG KONG 香港醫訊 MEDICAL DIARY

VOL.23 NO.7 July 2018

Geriatrics





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bbreviations: CKD, chronic kidney disease; ULT, urate-lowering therapy;sUA, serum uric acid.

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Dr Raymond SK LO

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The Cover Shot



Yellow plum blossoms herald the arrival of Spring around the end of January or beginning of February. This picture was taken near the end of January in Wuxi 無錫. Freak weather this year had given the rare opportunity in having snow in無錫which had not snowed for the past 10 years!!

Yellow plum blossoms in snow is indeed a rare paradise.



Prof Richard YU MD, PhD, FRCP, FHKCP Senior Advisor, Hong Kong College of Physicians

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The Conundrum of **Ageing Well**

Dr Raymond SK LO

MBBS (Lond), MD (CUHK), MHA (UNSW), Dip Geri Med (RCPS), Dip Palliative Med (U Wales), MRCP (UK), FHKAM (Medicine), FRCP (Lond, Edin, Glas)

Immediate Past President, The Federation of Medical Societies of Hong Kong

Editor



Since the beginning of humanity, mankind has been contesting with the inevitable fate of ageing and dying. Doctors and fellow professionals remain devoted to searching for a cure for all illnesses. Success is certainly seen in extending life expectancy for many, though quality and well-being are not yet equally achieved for all in later life. Can we better manage the multiple complexities of ageing, and keep the diseases and morbidity of old age further at bay?

When Dame Marjory Warren, the Mother of Geriatrics, pioneered the specialty at West Middlesex Hospital in London during the 1940s, she was treating the sick and infirm who were languishing in old Victorian workhouses. As for Dr Ana Aslan who founded the Geriatric Institute of Bucharest in Romania in 1952, often regarded as the first of its kind, she hoped to find the fountain of youth with an anti-ageing pill. The prevention of ageing and care for older people had indeed been much explored, way back from the era of ancient medicine. In the Canon of Medicine written in 1025, the Persian philosopher Avicenna was concerned that elders should get plenty of sleep, skin anointed with oil, and take on exercises such as walking and horse riding. In Ayurveda, the ancient Indian system of medicine, Rasayana is the branch that deals with rejuvenation and reversal of ageing. In our Mainland China, the notion of respecting the old and nourishing health for longevity had of course been well embraced for over thousands of years.

In this July issue, due focus is given to preventive geriatrics, aiming to promote health by preventing the diseases in old age. Dr Ignatz Nascher from Mount Sinai Hospital Outpatient Department in New York first coined the term Geriatrics in 1909. The word Geriatrics came from the Greek word Geron meaning old man, and Iatros meaning healer. While we endeavour to heal the diseases in old age, the best is to prevent the diseases from ever happening. Ageing is a continuum, and many preventive or health-enhancing measures should be taken much earlier in life. Key strategies are covered in this issue, on defying several giants in geriatric diseases such as falls and fractures, sarcopenia, cognitive decline and depression. The onus is on us all, from Primary Care physicians to Geriatrics specialists, to engage our patients in primary, secondary, and tertiary prevention. Not all older people will benefit from the same prevention approach, and the goal of preventive medicine in old age is also best individualised. Maintaining intrinsic capacity in old age is vital, in preserving function and independence. When faced with a progressive incurable illness, prevention of suffering through advance planning and palliative care is of paramount importance, to enhance both quantity and quality of life with dignity.

Old age has its honour and its toll. It was said by the ancient Greek hero Ulysses that warm baths, good food, soft sleep and generous wine were the rights of age and should not be denied. What is desired from our older citizens in this modern age? In the Lifestyle article of this issue, we interviewed the Chairman of the Elderly Commission and discussed the various concerns for ageing well in our society. For the greying millennium and beyond, we should lose no further time in pursuing the best health and social systems for our future generations to age and





Finally, may I thank all our authors again for their invaluable contribution. Professor Woo set the scene with emphasis on maintenance of function and reversal of frailty. Professor Kwok and Dr Kong addressed on the screening and prevention of fractures and sarcopenia. Dr Kwan and Professor Lam updated with the approaches in preventing cognitive decline, and recognition with management of anxiety and depression. Special acknowledgements are due to Dr Lam Ching Choi for his precious time and advice, and also to Professor Richard Yu for his kind support with the exquisite cover photo.

We wish all our readers a wonderful summer, and hope you will find this issue educational and insightful.





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4 Oct 18	04. Ethical issues: decision-making, advance directives,	Dr CY Tse
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11 000 18	06. Symptom control for advanced cancer and non-cancer patient	Dr Alice Mok
40.0 40	07. End-of-life care in non-cancer setting	Dr Raymond Lo
18 Oct 18	08. Professionals' reflections in facing death and dying	Dr Vincent Tse
25 Oct 18	09. End-of-life for older patients	Prof T Kwok
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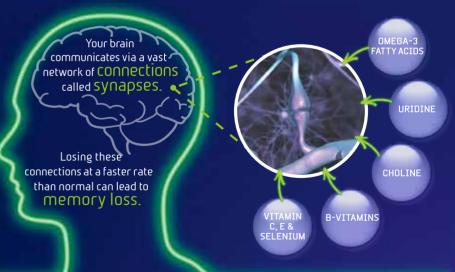
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Maintaining intrinsic capacity in older age

Prof Jean WOO

MA MD (Cantab) MB BChir, FRCP (Lond), FRCP (Edin), FRACP, FHKAM (Medicine) Emeritus Professor, Department of Medicine & Therapeutics, The Chinese University of Hong Kong



Prof Jean WOO

Consequences of demographic change

Population ageing is affecting all countries worldwide, irrespective of the stages of economic development. In Hong Kong it is forecasted that one in three people will be aged 65 years and above by 2040, rising from the current approximately 15% to 30%. Furthermore, men and women in Hong Kong have the longest life expectancies in the world. However, there is widespread consensus that a healthy active life expectancy may be more important than merely life extension. The desirable goal is to maintain cognitive and physical functions, and be independent, for as long as possible. There are no official data to inform us whether the long life expectancy in Hong Kong is accompanied by years lived with independence. However a recent age period cohort analysis of a large cohort of older people attending the Department of Health Elderly Centres suggests that recent cohorts have increasing prevalence of activities of daily living deficits as well as frailty.^{1,2} This is in contrast to the slowly declining incidence of common chronic diseases that is compatible with trends in other developed countries. This finding has serious implications for provision of health and social services, in that there is an absolute increase in the numbers of people requiring services due to ageing, but at the same time these people are likely to be more dependent and frail, so that effectively the projection of requirement may be greater than the projections based on the absolute increase in the number of older people. This is contrary to the projection that people are 'healthier' and therefore in older ages they may require less health and social services.

One explanation for this projection is the commonly held perspective that needs of older people are a result of increasing prevalence of chronic diseases, neglecting the health and social consequences of geriatric syndromes, such as cognitive impairment, frailty, sarcopenia, falls, undernutrition etc, which per se give rise to adverse consequences and increase use of health and social services. These conditions are amenable to prevention, screening, and intervention analogous to chronic diseases.³ There are no systematic community programmes for the prevention and management of frailty, which may be regarded as a phenotype that may include all these syndromes.

Healthy Ageing versus life prolongation

This change in approach is highlighted in the World Health Organization's Healthy Ageing Report,

which adopts maintenance of function as the main goal in ageing, and adopts a life course approach to optimising function with ageing.4 It also published a report advocating community integrated care for older people in the primary care setting that is not focused on screening for the presence or absence of chronic diseases, but on functional indicators.5 The WHO links this initiative to one of the UN sustainable development goals: universal health coverage. Intrinsic capacity interacting with physical and social environments determines functional capacity, the ultimate measure of healthy ageing. While the intrinsic capacity may be applied throughout the life course, in later years intrinsic capacity may represent the reverse of the frail state,6 both being better indicators than the chronological age. This is shown by the overlap in indicators for frailty and intrinsic capacity. These cover multiple domains: vitality, locomotor and cognitive function, sensory impairments, psychosocial characteristics, and multi morbidity. Proposed tools include the short physical performance battery, brief nutrition screening tool (MNA-SF), Geriatric Depression scale (GDS-15), Mini-mental state examination (MMSE), and hearing and vision.

Implications for individuals

This approach to healthy ageing requires individuals to understand the ageing process and age-related declines in physiological function, to be managers of their own rate of ageing through health lifestyles and behaviours, rather than a passive approach of focusing on disease avoidance and reliance on professionals. They should participate actively in ensuring that the physical and social environments facilitate their goal of optimising function in addition to building up and maintaining an intrinsic capacity. Initiatives such as the territorywide Age Friendly City initiative by the Hong Kong Jockey Club Charities Trust with the participation of four universities and District Councils for all 18 districts is an example of how age friendly environments are crucial to healthy ageing [http://www.ioa.cuhk.edu.hk/ images/content/others/nawa_em17_10/1017_edm10_ act5.pdf]. A key feature is the promotion of the message of empowerment to influence the physical and social

Implications for health and social services

There is a need for current health and social services to evolve to support prevention, screening and intervention for frailty, with a shift towards integrated



care in the community following the ICOPE guidelines, promotion of group frailty prevention programmes, development of automated screening tools followed by actions that can be self administered. This new approach should be integrated with existing services, along the lines of recent reports.³⁷⁻⁹

Societal implications

A broader perspective regarding healthy ageing that is not just confined to prevention, and screening for chronic diseases, but focused on maintenance of function through non-pharmacological measures, should be widely promoted to complement current focus on individual diseases such as hypertension and diabetes, with little consideration for frailty and other geriatric syndromes. Chronic diseases increase utilisation of health services; geriatric syndromes in the absence of chronic diseases also increase utilisation; a combination of both will have the biggest impact on society. Currently awareness is largely lacking among professionals and members of the public. We would do well to adopt the World Health Organization's approach to healthy ageing and care of older people in the primary care setting, in order to reverse the current trend to increasing prevalence of frailty and functional deficits in recent cohorts of older people, ultimately putting an unmanageable burden on the public hospital system.

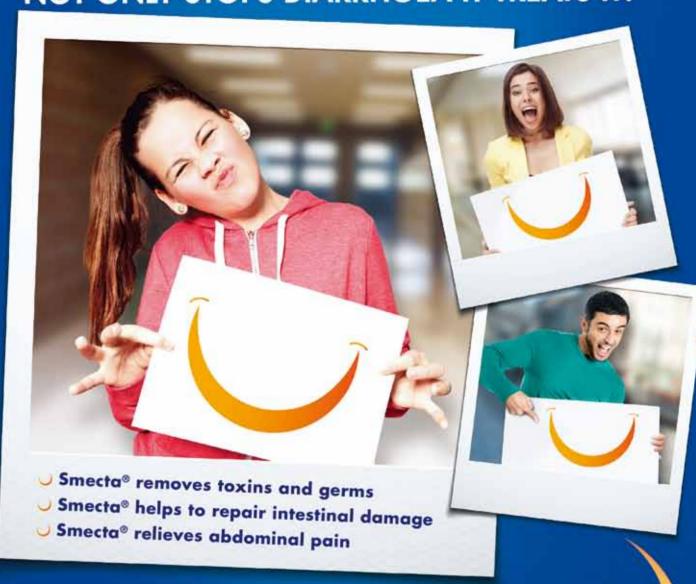
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Fracture prevention in older people

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Professor, Department of Medicine & Therapeutics and School of Public Health

Director, Jockey Club Centre of Positive Ageing
Director, CUHK Jockey Club Centre for Osteoporosis Care and Control
Faculty of Medicine, The Chinese University of Hong Kong



Introduction

With an ageing population, the burden of fractures is increasingly marked throughout the world¹, with Asia carrying the greatest part. Taking hip fractures for example, the age-standardised annual incidence was reported to be higher in Hong Kong, Japan, South Korea, and Taiwan than in the United States and some European countries². By the year 2050, half of all the hip fractures in the world are estimated to occur in Asians, mostly in Chinese3.

Fractures are a result of both trauma and decreased bone strength. Properties that contribute to bone strength include bone mineral density (BMD), bone geometry (size and shape of bone), degree of mineralisation, microarchitecture, and bone turnover⁴. Other common factors that contribute to fracture risk include age, falls, a prior fragility fracture, a parental history of hip fracture, smoking, use of systemic corticosteroids, excess alcohol intake and rheumatoid arthritis^{5,6}.

Osteoporotic fractures lead to deterioration in quality of life. Hip fractures, the most serious form of fractures, accounted for an estimated loss of 1.75 million disability-adjusted life-years (DALYs) globally in 1990, representing 0.1% of the total burden of disease. In Hong Kong, the acute hospital care cost of hip fractures in 1996 amounted to 1.0% of the total annual hospital budget8.

Osteoporotic fractures in older people are preventable. On the public health level, policies to ensure environmental safety in the design of buildings and public places e.g. street lamps, clear markings and nonslip staircases can reduce risk of falls. Public education to promote dairy intake, outdoor sun exposure and weight bearing exercises may improve bone health at the population level.

A major advance in fracture prevention in the past few decades is the ability to measure BMD at the hip and lumbar spine by dual energy X ray absorptiometry (DXA). Osteoporosis as defined by BMD t score (as compared with the adult population norm) has been shown to be predictive of fractures in older people^{9,10}, and drugs e.g. bisphosphonates have been consistently shown to be effective and cost effective in lowering fracture risk^{11,12}. Based on these, the National Osteoporosis Foundation in US recommends that all women aged 65 year or more and men aged 70 years or older should have osteoporosis screened by DXA¹³.

This approach has not been very effective in preventing fractures in older people, in that most people with osteoporotic fractures do not have osteoporosis 14,15. There is therefore a need to predict fractures more reliably. Based on clinical risk factors that can contribute significantly to fracture risk over and above that provided by aBMD, several assessment tools have been derived, and the most evaluated ones are the FRAX tool¹⁶, the Garvan fracture risk calculator^{17,18}, and QFracture^{19,20}. They were developed to estimate absolute fracture risk to enable better fracture prediction involved aBMD or not. The FRAX tool earns more reputation and popularity by its better calibration and appropriate source information. Since 2008, the population-specific FRAX algorithm has been calibrated to local data on the fracture rate and mortality for older Chinese in the mainland and Hong Kong SAR^{21,22}, respectively. Indeed, FRAX has been incorporated into international clinical guidelines for osteoporosis drug treatment^{23,24}. In the US, based on cost effectiveness analysis, a ten-year hip fracture risk of 3% is thought to justify drug treatment²⁵. In contrast, similar cost-effectiveness analysis in Taiwan found that the threshold should be 6% in men and 7% in women²⁶.

However, the predictive ability of the assessment tools needs specific verification, and their clinical performance needs comprehensive evaluation and local modification for practical application in older Chinese people. The corresponding population effect and costeffectiveness of different applications in practice should also be taken into account. The investigations therefore to be conducted in the Mr. OS and Ms. OS cohort study in Hong Kong.

Methods

The Mr. OS and Ms. OS Hong Kong study is the first large-scale cohort study conducted to examine the determinants of osteoporotic fractures in older Chinese men and women. Two thousand Chinese men and 2,000 Chinese women aged 65 years old or above were recruited from local communities from August 2001 to March 2003 and were prospectively followed up until March 2014. Information on lifestyle factors and physical measurements were collected at baseline. The related lifestyle factors were: general characteristics and medical history, smoking history, alcohol consumption, medication use, physical activities, and mental status. The related physical examinations were: anthropometric and body composition measurement. Total hip, femoral neck, and lumbar spine aBMD and trabecular bone



score (TBS) of lumbar spine were measured by DXA. FRAX scores for 10-year MOFs or hip fracture risk were calculated accordingly. Data on incident fracture and all-cause mortality were collected from electronic medical record and death registry systems in Hong Kong.

Results and Discussions

The subjects were followed up for an average period of 9.9 ± 2.7 and 8.8 ± 1.5 years, respectively. During the follow-up period, 139 (7.0%) men and 236 (11.8%) women had at least one incident MOF, 63 (3.2%) men and 236 (3.5%) women had at least one incident hip fracture. The incidence rate of MOF was 7.6/1,000 and 15.1/1,000 person-years, and the incidence rate of first incident hip fracture was 3.22/1,000 and 3.99/1,000 person-years in men and women, respectively.

Our analysis showed that TBS which is a novel method of computerised analysis of DXA images of lumbar spine to reflect bone architecture was found to have additive value to FRAX score in predicting MOF²⁷. Since then, TBS has been incorporated into the calculation of FRAX score, and all new DXA machines have the option of inbuilt TBS analysis software. In addition, we have found that a history of fall can predict MOF independently of FRAX in older men²⁸. There is therefore a case to incorporate any fall history in the calculation of FRAX score in older men.

In Hong Kong, there is no public health policy targeted at fracture prevention. The Hospital Authority started funding bisphosphonate prescription for their outpatients in specialist clinics with a fracture history or on long term steroid treatment, and DXA is available to these patients in a few hospitals. Because bisphosphonate is not available at HA general outpatient clinics, only a small fraction of fracture patients receives bisphosphonates. For example, according to a survey of over 5,000 hip fracture patients in HA hospitals, less than five percent of these patients received any form of fracture preventive medication²⁹.

As to primary prevention of fractures in older people, there is no public funding for DXA, except via the use of health care vouchers. Probably because of this, few older people undergo DXA scan for primary prevention of MOF, even though it is commonly offered in the private health care sector. A potential strategy is to prescreen older people with the FRAX questionnaire which is available online (http://www.jococ.org/html/zh/ leftmenu/askexpertIntro self.htm) or by calcaneal QUS before taking DXA examination. Based on our Os cohort data, we conducted a detailed analysis to evaluate the cost-effectiveness of osteoporosis screening strategies for hip fracture prevention. All of the screening strategies, including the universal screening with DXA in people aged 70 years or over, and the pre-screening with FRAX or QUS before DXA were more cost-effective than no screening for people aged 65 years old or over. Probabilistic sensitivity analyses showed a dominant role of pre-screening with FRAX followed by subsequent osteoporosis drug treatment in people aged 70 years old or over in Hong Kong. Indeed, a recent randomised trial of pre-screening by FRAX, followed by DXA resulted in 30% reduction in hip fracture incidence³⁰.

The FRAX questionnaire has moderate specificity (around 65%) for ten-year hip fracture risk, but sensitivity is limited for the use of screening, being 58.7% in men and 68.6% in women. As sarcopenia is a strong predictor of hip fractures in older people^{31,32}, we have combined the FRAX questionnaire with a simple (5 items) questionnaire for sarcopenia –SARC-F³³. Our analysis showed that the combined questionnaire which takes less than five minutes to administer can increase the sensitivity for hip fracture incidence, without compromising the overall predictive value (unpublished data). We therefore recommend this questionnaire (http://www.jococ.org/) to identify older people who are at high risk of hip fracture. It is recommended that these individuals should undergo DXA scan for more accurate delineation of fracture risk. The drug treatment decision can then be based on the FRAX score after incorporating the BMD score, as recommended by existing clinical guidelines^{13,23}.

Lastly, fractures can only occur after a fall. Older people should undergo a standardised assessment of fall risks which include timed up and go tests, as recommended by the primary care reference framework (www.pco.gov.hk/english/resource/files/Module_on_Falls_in_elderly.pdf). The fallers should also be encouraged to undergo DXA scan to look for osteoporosis.

Conclusions and Implications

We therefore recommend that all older people (aged 70 years or older) should be screened by FRAX and SARC-F questionnaires in the first instance. The ones found to be at risk should undergo DXA scan aided by TBS analysis. If the ten-year hip fracture risk exceeds 6.0% in men 7.0% in women²⁶, osteoporosis drug treatment should be initiated. Older people with a recent fall, especially in men, should be assessed for fall risk and have osteoporosis screening by DXA. If this proactive approach in primary prevention is generally implemented at the primary care level, there is every hope that the incidence of hip fractures among a community dwelling older people can be reduced significantly.

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Department of Family Medicine and Primary Care The University of Hong Kong

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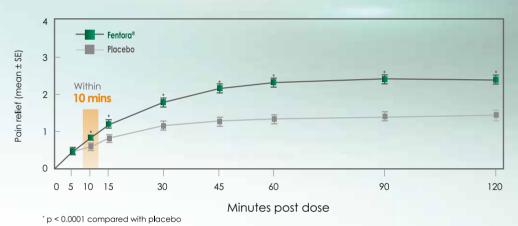


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BTcP = breakthrough cancer pain. GI = gastrointestinal. SE = standard error.

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Prevention and Treatment of Sarcopenia

Dr Tak-kwan KONG

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

Specialist in Geriatric Medicine
Honorary Clinical Associate Professor, Department of Medicine, The University of Hong Kong
Clinical Associate Professor (Honorary), Department of Medicine & Therapeutics, The Chinese University of Hong Kong
Consultant, Division of Geriatrics, Department of Medicine & Therapeutics, Prince of Wales Hospital



Dr Tak-kwan KONG

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 2018.

Sarcopenia is clinically defined as a syndrome characterised by progressive and generalised loss of skeletal muscle mass and muscle function (either low muscle strength or physical performance) with a risk of adverse outcomes such as physical disability, poor quality of life and death.¹⁻³ Sarcopenia can be viewed from a pathophysiologic perspective as an organ failure ("muscle insufficiency") which can develop chronically or acutely associated with hospitalisation.⁴

Treatment of Chronic Sarcopenia

Whu?

Intervening sarcopenia, which is linked to physical frailty in elderly persons, has the potential to slow, stop or reverse progressive decline towards disability and dependency, as well as to improve physical function. We can see treatment of sarcopenia as a means to avoid disability, just like treating hypertension as a means of preventing stroke, or treating osteoporosis to prevent fractures. While osteoporosis is related to the outcome of fractures, a hard clinically relevant outcome for sarcopenia has yet to be identified. Potential outcomes of sarcopenia studied in sarcopenia intervention trials include mobility disability (dysmobility), activities of daily living (ADL) disability, fractures, recurrent falls, injurious falls, mortality, or hospitalisation.⁵

What cut-off to intervene?

There is a need to establish evidence-based cut-off points in assessment of sarcopenia to distinguish it from normal ageing of the skeletal muscle. Both the European and Asian Working Groups on Sarcopenia have proposed cut-off points of measurements two Standard Deviations (SDs) below the mean from a reference population of healthy young people for diagnosis of sarcopenia.^{1,3} However, these cut-off points are not outcome-based and do not necessarily represent the threshold for interventions. The choice of a cut-off has to balance sensitivity and specificity according to the needs of the evaluation. Sensitivity is preferred for screening to identity those at risk, while specificity is preferred for targeting intervention to those who may benefit from treatment. In establishing a cut-off for interventions, the most important outcome needs to be identified, but as mentioned above, consensus on such a gold standard has not been reached in sarcopenia research.5

How?

Currently, there are no approved drug treatments for sarcopenia. Most sarcopenia intervention studies focused on exercise, nutrition, or their combination. But very few trials enrolled people with sarcopenia and their study designs are diverse in terms of participant inclusion, exercise or nutrition interventions, and quality of the study design. The International Conference on Frailty and Sarcopenia Research Task Force met in April 2017 to reflect and evaluate on past trials in sarcopenia and discussed on strategies to accelerate development of new therapies.⁵

The four categories of exercise (resistance exercise, aerobic exercise, flexibility and balance) have potential benefits in improving independence in elderly people. Exercise has been shown to increase muscle strength, physical function, aerobic capacity, muscle protein synthesis, and muscle mitochondrial enzyme activity in both young and elderly people. Systemic inflammation has been increasingly recognised in the genesis of sarcopenia, and exercise has a beneficial role in sarcopenia through its anti-inflammatory effect.⁷ For exercise to slow muscle loss, a minimum of twice to thrice per week is recommended. Resistance exercise (exercise against an increasing external load) is the most studied form of exercise intervention. In a Cochrane review of 121 trials with 6,700 participants with an average age of at least 60 years old, resistance exercise has been shown to be beneficial on muscle strength and physical function.8

While some studies have shown that protein supplementation augments the beneficial effect of resistance exercise for younger healthy adults, a metaanalysis of 15 studies failed to show a similar effect in older (mean age 77.4 years) healthy, frail, and sarcopenic adults, though there may be an additional benefit of protein supplementation on resistance exercise programmes in frail older adults who do not regularly consume sufficient protein at baseline, particularly those in institutionalised care. However, another systematic overview of community-dwelling elderly patients (aged 65 years or above) with physical frailty and sarcopenia, majority from China and Japan, showed that exercise interventions (that include resistance and balance training) with or without nutritional supplementation improved muscle strength and physical performance.¹⁰



Making a lasting difference right from the start¹

Uniform the present on prostate cancer Dosage and Administration in the recommended dose of DUDDART for one capsule (0.5 mg/ 0.4 mg) taken orally approximately 30 minutes after the same meal each down whole and not not where or opened or the presention of prostate cancer. Same meal each down whole and not not where or opened or the presention of prostate cancer. Same meal each down whole and not not where or opened or other presention of prostate cancer. Same meal each down whole and not not where or opened or other presention of the contents of the dutasteride capsule contained within the hard-shell capsule may result in irritation of the oropharyngeal mucosa. Where clinically appropriate, direct change from dutasteride or tamsulosin hydrochloride monotherapy to DUDDART may be onsidered. Renal impairment. The effect of renal impairment on dutasteride to dutaster considered. Renal impairment: The effect of renal impairment on dutasteride-tamsulosin pharmacokinetics has not been studied. dutasteride-tamsulosin pharmacokinetics has not been studied so caution should be used in patients with mild to moderate hepatic impairment. In patients with severe hepatic impairment, the use of DUODART is contraindicated. Contraindicated. Contraindicated and hyperasticity to dutasterided, other 5 alphareductase inhibitors, tamsulosin (including tamsulosins, induced angio-edema), soya, peanut on any of the excipients, listory of orthostatic hypotrasions, with severe hepatic impairment, women and adolescents. Warnings and Precautions Concomitant administration of tamsulosin hydrochloride is therefore not recommended in patients with strong inhibitors of CYB2A, or to a lesser extent, with strong inhibitors of CYB2A or increase tamsulosin exposure (see Interactions). Tamsulosin hydrochloride is therefore not recommended in patients taking a strong CYP3A4 inhibitor and should be used with caution in patients taking a strong CYP2D6 inhibitor. Tamsulosin hydrochloride should be used with caution in patients taking a moderate CYP3A4 inhibitor in combination with either strong or moderate CYP2D6 in two 4-year clinical study, by the incidence of cardiac failure (a composite events, primarily cardiac failure and congestive cardiac failure) was higher among subjects taking the combination of dutasteride and an alpha blocket remails. Causa income success the cardiac failure was most subjects to taking the combination. Digital rectal examination, as well as other evaluations for prostate cancer or other conditions which can cause the same symptoms as BPH, must be performed on patients with BPH prior to initiating therapy with DUDDART and periodically thereafter. Serum prostate-specific antigen (PSA) concentration is an important component in the detection of prostate cancer. Dupdart causes a decrease in mean serum PSA levels by approximately 50% after six or pinc to initiating useragy with Doctoran and periodicary interfaced, section prospers and section of proceeding the process of sections in the detection of proceeding Doctoran should have a new PSA baseline established after 6 months of treatment without its recommended to month or Sy values regularly history threafter. Any confirmed increase from movest PSA baseline established after 6 months of treatment without its recommended to month or Sy values regularly history threater. Any confirmed increase from movest PSA baseline established after 6 months of treatment without the section of a presence of prostate cancer (particularly high grade cancer) or noncompliance to therapy with Duodart and should be carefully evaluated, even if those values are still within the normal range for men not taking a 5a-reductase inhibitor (see section 1). In the interpretation of a System of the section of the process of the section of t influence of DUODART. If clinicians elect to use percent free PSA as an aid in the detection of prostate cancer in men undergoing DUODART therapy, no adjustment to its value appears necessary. Breast cancer has been reported in men taking dutasteride in clinical trials (see Clinical Studies) and during the post-marketing period. Prescribers should instruct their patients to promptly report any changes in their breast tissue such as lumps or nipple discharge. It is not clear if there is a causal relationship between the occurrence of male breast cancer and long term use of dutasteride. As with other alpha-blockers, a reduction in blood pressure can occur during treatment with tamsulosin, as a result of which, rarely, syncope can occur. Patients beginning treatment with DUODART should be cautioned to sit or lie down at the first signs of orthostatic hypotension (dizziness, weakness) until the symptoms have resolved. Caution is advised when alpha adrenergic blocking agents including tamsulosin are co-administered with PDES inhibitors. Alpha adrenergic blockers and PDES inhibitors are both vascodilators that can lower blood pressure. Concomitant use of these two drug dases can potentially cause symptomatic hypotension. Intendation to Syndrome (PES, a variant of small pupil syndrome) has been observed during cataract surgery in some patients on or previously treated with transulosis. This may lead to increased procedural complications during the operations. The initiation of therapy with Duodast in patients for whom cataract surgery is scheduled is therefore not recommended. During pre-operative asserting the process of the pr surgeons and ophthalmic teams should consider whether patients scheduled for cataract surgery are being or have been treated with Duodart in order to ensure that appropriate measures will be in place to manage the HS during surgery. Discontinuing tamisulosin 1 – 2 weeks prior to cataract surgery is anecdotally considered helpful, but the benefit and duration of stopping therapy prior to cataract surgery has not yet been established. Dutasteride is absorbed through the skin, therefore women and children must avoid contact with leaking capsules. If contact is made with leaking capsules the contact area should be washed immediately with soap and water. DUODART has not been studied in patients with liver disease. Caution should be used in the administration of dutasteride to patients with liver disease. This medicinal product contains the colouring agent Sunset Yellow (ET10), which may cause allergic reactions. In men aged 50 to 75 years with a prior negative bippy for prostate Cancer and a baseline PSA between 7.5 gmlm, and 10.10 mgml taking distance in the management of the product contains the colouring agent Sunset Yellow (ET10), which may cause allergic reactions. In men aged 50 to 75 years with a prior negative bippy for prostate Cancer and a baseline PSA between 5.5 gmlm, and 10.10 mgml taking distance in the product contains the colouring agent Sunset Yellow (ET10), which may cause allergic reactions. In men aged 50 to 75 years with a prior negative bippy for prostate Cancer and a baseline PSA between 5.5 gmlm, and 10.10 mgml taking distance in 10 mgml taking distance in 1 alpha-reductase inhibitors to reduce prostate volume, or study related factors, impacted the results of these studies has not been established. Priagism (persistent painful penile erection unrelated to sexual activity) has been ass appraise concerns a minimal part of the control of alpha-1 adrenegic blockers. Concomination and reduce dependent and increase of the Cmax and AUC of transulosin hydrochloride and paroxetine (a strong CYP2A6 inhibitor) resulted in an increase of the Cmax and AUC of transulosin hydrochloride and paroxetine (a strong CYP2A6 inhibitor) resulted in an increase of the Cmax and AUC of transulosin hydrochloride and paroxetine (a strong CYP2A6 inhibitor) resulted in an increase of the Cmax and AUC of transulosin hydrochloride and paroxetine (a strong CYP2A6 inhibitor) resulted in an increase of the Cmax and AUC of transulosin hydrochloride by a factor of 1.3 and 1.6 respectively. A similar increase in exposure is expected in CYP2D6 poor metabolisers as compared to extensive metabolisers when co-administered with a strong CYP3A4 inhibitor. The effects of co-administration of both CYP3A4 and CYP2D6 inhibitors with transulosin hydrochloride have not been evaluated clinically, however there is a potential for significant increase in transulosin measousest where two animaliseties with a strong CFF344 minimater and institutions with animaliset management and institution and institution of the strong companies and 24 weeks of post treatment follow-up. At 52 weeks, the mean percent reduction from baseline in total sperm count, semen volume, and sperm mortility were 23%, 26%, and 18%, respectively, in the dutasteride group when adjusted for changes from a baseline. With properties of the processing sperm correctivation and sperm morphology were unaffected. After 24 weeks of follow-up, the mean percent change in total sperm count in the dutasteride group remained 23% lower than baseline. With premarine the mean values for all semen parameters are unaffected. After 24 weeks of follow-up, the dinical within the normal ranges and did not meet predefined criteria for a clinically significant change (20%), two subjects in the dutasteride group had decreases in sperm count of greater than 90% from baseline. With partial recovery parameters are unaffected. After 24 weeks, within the normal parameters are unaffected. After 24 weeks of follow-up. The clinical within the normal ranges and did not meet predefined criteria for a clinically significant change (20%), two subjects in the dutasteride group had decreases in sperm count of greater than 90% from baseline. With partial recovery parameters are unaffected. After 24 weeks of follow-up. The clinical within the normal ranges and did not meet predefined a factor parameters. significance of dutasteride's effect on semen characteristics for an individual patient's fertility is not known. DUODART is contraindicated for use by women. As with other 5 alpha reductase inhibitors, dutasteride inhibitors dutasteride inhibitors. may, if administered to a woman carrying a male foetus, inhibit the development of the external genitalia of the foetus. Small amounts of dutasteride have been recovered from the semen in subjects receiving dutasteride. It is not known whether dutasteride or tansulosin are excreted in human milk. Adverse Reactions Clinical Trial Data (DUTASTERIDE AND TAMSULOSIN CO-ADMINISTRATION): Impotence, altered (decreased) libido, ejaculation disorders, breast disorders (includes breast tenderness and breast enlargement), dizziness and cardiac failure. Clinical Trial Data (dutasteride monotherapy): Allergic reactions, including rash, pruritus, urticaria, localised oedema and angioedema. Alopecia (primaril body hair loss), hypertrichosis, depressed mood, testicular pain and testicular swelling. Clinical Trial Data (Tamsulosin Monotherapy): Clinical Trial Data and Post marketing Data: Dizzness, abnormal ejaculations, palpitations, constipation, diarrhoea, vomiting, asthenia, minitis, rash, pruritis, urticaria, postural hypotension, syncope, angioedema, priapism, Stevens-Johnson syndrome. During postmarketing surveillance, reports of intraoperative Floppy Iris Syndrome (IFS), a variant of small pupil syndrome, during cataract surgery have been associated with alpha-1 blocker therapy, including tamsulosin. Post-marketing experience: In addition atrial fibrillation, arrhythmia, tachycardia and dyspnoea have been reported in association with tamsulosin use. The frequency of events and the role of tamsulosin in their causation cannot be reliably determined.

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The "Sarcopenia and Physical fRailty IN older people: multi-component Treatment strategies" (SPRINTT) is an ongoing randomised controlled trial designed to evaluate the efficacy of multicomponent intervention (consisting of structure physical activity, personalised nutritional counselling/dietary intervention, and an informational/communication technology) for preventing mobility disability and other outcomes such as injurious falls in 1,500 frail sarcopenic elderly persons in Europe. This study is expected to promote significant advancements in the management of frail sarcopenic elderly persons at high risk of disability.¹¹

Prevention of Chronic Sarcopenia

A key issue in geriatric medicine is whether to focus on treatment or prevention. For sarcopenia, public health interventions should adopt a life-course approach in order to have a positive impact on the earlier phases of the skeletal muscle decline starting after the age of 40 years. It has been suggested that everyone who gets a prescription for a long term condition in a clinic should also get an activity prescription at the end of every consultation.¹²

The British Geriatrics Society recommends that exercise, in particular strength and balance training, improves both mobility and functional ability, though the optimal exercise regimen to minimise frailty and sarcopenia remains uncertain. ¹³ Nutritional interventions also need to be considered, although evidence remains limited. Nutrition recommendations currently include optimising protein intake and correcting vitamin D insufficiency. ¹³⁻¹⁵ Testosterone improves muscle strength, but is also associated with adverse effects, particularly on the cardiovascular system. ^{13,16}

The European Society for Clinical Nutrition and Metabolism (ESPEN) recommends that the diet should provide at least 1.0–1.2 g protein/kg body weight/day for healthy elderly persons and up to 1.2–1.5 g protein/kg body weight/day for malnourished/at risk of malnutrition elderly people, with even higher intake for individuals with severe illness or injury. However, this recommendation is based on data from longitudinal epidemiological studies rather than intervention trials. Daily physical activity or exercise (resistive or aerobic) should be undertaken by all elderly people, for as long as possible.¹⁷

The European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO) Working Group highlights the importance of 'healthier' dietary patterns of adequate quality in old age for muscle health: to ensure sufficient intakes of protein, vitamin D, antioxidant nutrients and long-chain polyunsaturated fatty acids. However, much of the evidence is observational and from high-income countries.¹⁸

The most practical means of increasing skeletal muscle protein is to include proteins of high biological value during each meal, e.g. lean cuts of meat, fish, eggs, low fat dairy products, beans, pulses, lentils. It has been suggested that leucine, an essential amino acid, is critical to the maintenance of healthy muscle. However, no consistent results have been shown from studies of

leucine supplementation. Dietary omega-3 fatty acid supplementation (e.g. fish oil or flaxseed oil) increases the rate of muscle protein synthesis in elderly persons. ¹⁹ A Korean community study of elderly people (aged ≥65 years) showed that dietary intake of vegetables and fruits, which are rich in antioxidant, was associated with a significantly reduced risk of sarcopenia. ²⁰ Low vitamin D levels have been associated with low muscle strength. ²¹ Vitamin D supplementation in individuals with low levels can help improve muscle mass and function. ²²⁻²⁴

While lifestyle and behavioural interventions (e.g. nutrition, physical activity) may be promoted on a large scale as a public health preventive measure, the development of drugs to prevent sarcopenia can be targeted at the higher risk sub-population because of a sedentary lifestyle or inadequate energy intake and those with specific sarcopenia conditions characterised by accelerated ageing. 25 The ENRGISE (ENabling Reduction of 10wGrade Inflammation in Seniors) is a prevention trial in Florida that targets age-related inflammation as a risk factor for mobility loss, frailty, and sarcopenia.²⁶ The anti-inflammatory intervention used in this study combines an angiotensin receptor blocker (losartan) with omega-3 fatty acids. If proven efficacious, this widely available and low-cost combined intervention could be relatively easy to deliver to elderly people at high risk of mobility disability.

Acute Sarcopenia Secondary to Hospitalisation

The term "acute sarcopenia" refers to acute loss of muscle mass and function associated with hospitalisation, arising from a combination of acute inflammatory burden, muscle disuse and endocrine dysregulation. The risk factors associated with acute sarcopenia are:²⁷⁻³⁴

- Cognitive impairment: acute (delirium) or chronic (dementia)
- Immobility: bedrest, disuse, restraint
- Acute medical illness
- Intensive Care Unit admission
- Medications, e.g. steroids
- Surgical procedures
- Malnutrition
- Chronic disease
- Pre-sarcopenia and chronic sarcopenia
- Psychological stress: acute or chronic
- Depression
- Insomnia

Prevention and Treatment of Acute Sarcopenia

Identifying and intervening the risk factors of acute sarcopenia mentioned above are important in preventing or reversing acute sarcopenia and its long-term sequelae of chronic sarcopenia.

Physical activity interventions

Hospitalised elderly patients often have their mobility restricted by reclining beds, bedside rails, restraints, and the use of bed and chair alarms due to perceived risks of falls. ^{35,36} Bedrest and restraints, which are associated with sarcopenia and other adverse outcomes, ³⁶⁻³⁸ should



1–2 SEPTEMBER 2018 HONG KONG

SYMPOSIUM ON ASTHMA AND COPD: NOW AND FUTURE

PROGRAMME HIGHLIGHTS

- · World-renowned speakers on COPD, childhood and adult asthma
- Hands-on workshop on endobronchial lung volume reduction & bronchial thermoplasty
- Certificate course for allied health professionals with lectures and hands-on workshop on lung function, allergy skin tests, inhaler devices, high-flow oxygen and non-invasive ventilation
- Primary prevention of asthma and COPD
- Getting the best from current treatments
- Emerging pharmacological and nonpharmacological treatments for severe asthma
- Treatable traits for airway diseases: a strategy for the future?

INVITED SPEAKERS

Neil Barnes (UK) Norbert Berend (Australia) Peter Calverley (UK) Mario Castro (USA) Veronica Chan (Hong Kong) Ratko Djukanovic (UK) Felix Herth (Germany) Peter Howarth (UK) Sebastian Johnston (UK) Gregory King (Australia) Fanny Ko (Hong Kong) Grace Lam (Hong Kong) Wai-kei Lam (Hong Kong) Christoper Lai (Hong Kong) Jing Li (Mainland China) Fernando Martinez (USA) Fernando J Martinez (USA)
Daniel Ng (Hong Kong)
Ian Pavord (UK)
Helen Reddel (Australia)
Hoi-nam Tse (Hong Kong)
Jorgen Vestbo (UK)
Wisia Wedzicha (UK)
Yiu-cheong Yeung (Hong Kong)

REGISTRATION FEE

Catagony	Respiratory	/ Physicians	Nurses and Allied Health Professionals	
Category	Members of HKTS/CHEST	Non-members	Members of HKTS/CHEST	Non-members
Symposium on Asthma and COPD (1 - 2 Sep)	HK\$500	HK\$1,000	HK\$300	
Hands-on Workshop and Symposium (1 - 2 Sep)	HK\$800	HK\$1,600	HK\$500	HK\$700

Remarks: HKTS/CHEST members have priority registration for the workshop

MEETING SECRETARIAT

MIMS (Hong Kong) Limited 27/F., OTB Building, 160 Gloucester Road, Wanchai, Hong Kong Tel: (852) 2155 8557 or 2116 4348 Fax: (852) 2559 6910 E-mail: meeting.hk@mims.com

VENUE

Meeting Room S421, Level 4, Phase 1 (Old Wing) Hong Kong Convention and Exhibition Centre 1 Expo Drive, Wanchai, Hong Kong

REGISTRATION^A

Please fill in the registration form and return it with payment to the meeting secretariat before **10 August 2018**. Please make cheque payable to "Hong Kong Thoracic Society Limited".

^ On-site registration will not be accepted

Download Registration Form at: **www.hkresp.com**











Course No. C317 CME/CNE/PEM Course



Obstetrics 2018

Jointly organised by







Gynaecological Society of Hong Kong

Objectives:

This course is designed for the general practitioners, midwives, nurses and health care providers who are interested in Obstetrics. A series of lectures covering various aspects of modern obstetrics and midwifery are provided in the course. Participants will have an update of the subjects so that collaboration with maternity units in providing pregnancy care can be facilitated.

Date	Topics	Speakers
16 Jul	Management of intrauterine fetal demise	Dr. LAI Wing Sze Carman Associate Consultant, Department of Obstetrics & Gynaecology, Queen Mary Hospital
23 Jul	Managing common psychiatric illness during pregnancy	Dr. CHAN Lai Wah Connie Associate Consultant, Yung Fung Shee Psychiatric Centre
30 Jul	Prediction and prevention of pre-eclampsia	Prof. POON Chiu Yee Liona Clinical Associate Professor, Department of Obstetrics & Gynaecology, The Chinese University of Hong Kong
6 Aug	Morbidly adherent placenta - diagnosis and management	Dr. CHAN Lin Wai Daniel Consultant, Department of Obstetrics & Gynaecology, Hospital Authority Kowloon East Cluster
13 Aug	Hepatitis and pregnancy	Dr. LAW Lai Wa Specialist in Obstetrics and Gynaecology Clinical Associate Professor (Honorary) The Chinese University of Hong Kong
20 Aug	A) Use of birth ball B) Common musculoskeletal problem in pregnancy	Ms. Brigitte FUNG Senior physiotherapist, Kwong Wah Hospital

Date: 16, 23, 30 July & 6, 13, 20 August, 2018 (Every Monday)

Time: 7:00 p.m. - 8:30 p.m.

Venue: Lecture Hall, 4/F., Duke of Windsor Social Service Building, 15 Hennessy Road, Wanchal, Hong Kong

Language Media: Cantonese (Supplemented with English)

Course Fee: HK\$750 (6 sessions)

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

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

Tel.: 2527 8898 Fax: 2865 0345 Email: into@tmshk.org

be minimised during hospitalisation. There is increasing evidence that early mobilisation and physical activity regimes can help to improve outcomes.^{39,40} The optimum duration and intensity of physical activity to treat or prevent acute sarcopenia has yet to be answered by future research. For in-hospital mobility intervention programmes to be sustainable, such programmes may have to be tailored to specific sites.⁴¹

Nutrition

Studies have shown that elderly persons have higher protein requirements than younger adults because of anabolic resistance, which means that elderly individuals need to consume a greater amount of protein to stimulate muscle protein synthesis.42 The protein requirements are further increased during acute illness.⁴³ A randomised study on protein pulse feeding in an inpatient rehabilitation unit has demonstrated clinically relevant effects on the lean mass in malnourished and at-risk hospitalised elderly patients. 44 A metaanalysis of high protein oral nutritional supplements in patients following hospital discharge showed a reduction in complications and re-admissions as well as improvements in weight and grip strength.⁴⁵

Other potential interventions

Neuromuscular electrical stimulation, the application of electrical currents to stimulate muscular contraction, is a potential strategy to prevent targeted muscle atrophy in situations where mobilisation is not possible, such as in the intensive care unit setting. 46 In patients with advanced cancer undergoing standard-of-care therapy, adjunct testosterone (weekly injections of 100 mg testosterone enanthate for seven weeks) improved the lean body mass and was also associated with increased quality of life, and physical activity compared with placebo.47 It is thought that testosterone achieves this by both stimulating anabolic and suppressing catabolic skeletal muscle pathways.

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MCHK CME Programme Self-assessment Questions

Please read the article entitled "Prevention and Treatment of Sarcopenia" by Dr Tak-kwan KONG 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 2018 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. Patients with sarcopenia are at risk of mobility disability and treating sarcopenia is a means to avoid disability.
- 2. The proposed cut-off points to diagnose sarcopenia for Asians are outcome-based and can be used as the threshold for interventions.
- 3. The minimum recommended frequency of exercise to slow muscle loss is once a week.
- 4. Current evidence-based treatments for sarcopenia are drugs, exercise, and nutrition.
- 5. Prevention of sarcopenia should start at the age of 40 years when skeletal muscle declines in the life-course.
- 6. Though testosterone improves muscle strength, it is associated with adverse effects on the cardiovascular system.
- 7. Vitamin D supplementation in individuals with low vitamin D levels can help improve muscle mass and function.
- Since inflammation is a risk factor for sarcopenia, anti-inflammatory drugs are being studied in sarcopenia prevention trials.
- 9. Intensive Care Unit admission is a risk factor for acute sarcopenia.
- 10. Anabolic resistance means that younger adults need to consume a greater amount of protein than older adults to stimulate muscle protein synthesis.

ANSWER SHEET FOR JULY 2018

Please return the completed answer sheet to the Federation Secretariat on or before 31 July 2018 for documentation. 1 CME point will be awarded for answering the MCHK CME programme (for non-specialists) self-assessment questions.

Prevention and Treatment of Sarcopenia

Dr Tak-kwan KONG

Late-Breaking Clinical Trials Sessions

3. F

2. F

1. F

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

Specialist in Geriatric Medicine
Honorary Clinical Associate Professor, Department of Medicine, The University of Hong Kong
Clinical Associate Professor (Honorary), Department of Medicine & Therapeutics, The Chinese University of Hong Kong
Consultant, Division of Geriatrics, Department of Medicine & Therapeutics, Prince of Wales Hospital

4. F

5. F

1 2 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.:	_ (for reference only)		
Answers to June 2018 Issue				
American College of Cardiology, Annual Scientific Congress (ACC 18')				

6. T

7. T

8. T

9. T

10. T



OAB: overactive bladder

Abbreviated prescribing information of Betmiga® prolonged-release tablets

Version: 003 PI version: Apr 2016. Composition: Mirabegron Indication: Symptomatic treatment of urgency, increased micturition frequency and/or urgency incontinence as may occur in adult patients with overactive bladder (OAB) syndrome. Dosage: Adult including elderly 50 mg once daily with or without food. Administration: Swallow whole with liquids. Do not chew/divide/crush. Contraindications: Mirabegron is contraindicated in patients with - Hypersensitivity to the active substance or to any of the excipients. - Severe uncontrolled hypertension defined as systolic blood pressure > 180 mm Hg and/or diastolic blood pressure > 110 mm Hg. Special warnings and precautions for use: Renal impairment: Betmiga has not been studied in patients with end stage renal disease (GFR < 15 mL/min/1.73 m2 or patients requiring haemodialysis) and, therefore, it is not recommended for use in this patient population. Data are limited in patients with severe renal impairment (GFR 15 to 29 mL/min/1.73 m2); based on a pharmacokinetic study a dose reduction to 25 mg is recommended in this population. Betmiga is not recommended for use in patients with severe renal impairment (GFR 15 to 29 mL/min/1.73 m2) concomitantly receiving strong CYP3A inhibitors. Hepatic impairment: Betmiga has not been studied in patients with severe hepatic impairment (Child-Pugh Class C) and, therefore, it is not recommended for use in this patient population. Betmiga is not recommended for use in patients with moderate hepatic impairment (Child-Pugh B) concomitantly receiving strong CYP3A inhibitors. Hypertension: Mirabegron can increase blood pressure. Blood pressure should be measured at baseline and periodically during treatment with Betmiga, especially in hypertensive patients. Data are limited in patients with stage 2 hypertension (systolic blood pressure ≥ 160 mm Hg or diastolic blood pressure ≥ 100 mm Hg). Patients with congenital or acquired QT prolongation: Betmiga, at therapeutic doses, has not demonstrated clinically relevant QT prolongation in clinical studies. However, since patients with a known history of QT prolongation or patients who are taking medicinal products known to prolong the QT interval were not included in these studies, the effects of mirabegron in these patients is unknown. Caution should be exercised when administering mirabegron in these patients. Patients with bladder outlet obstruction and patients taking antimuscarinics medications for OAB: Urinary retention in patients with bladder outlet obstruction (BOO) and in patients taking antimuscarinic medications for the treatment of OAB has been reported in postmarketing experience in patients taking mirabegron. A controlled clinical safety study in patients with BOO did not demonstrate increased urinary retention in patients treated with Betmiga; however, Betmiga should be administered with caution to patients with clinically significant BOO. Betmiga should also be administered with caution to patients taking antimuscarinic medications for the treatment of OAB. Undesirable effects: Summary of the safety profile: The safety of Betmiga was evaluated in 8,433 patients with OAB, of which 5,648 received at least one dose of mirabegron in the phase 2/3 clinical program, and 622 patients received Betmiga for at least 1 year (365 days). In the three 12-week phase 3 double blind, placebo controlled studies, 88% of the patients completed treatment with Betmiga, and 4% of the patients discontinued due to adverse events. Most adverse reactions were mild to moderate in severity. The most common adverse reactions reported for patients treated with Betmiga 50 mg during the three 12-week phase 3 double blind, placebo controlled studies are tachycardia and urinary tract infections. The frequency of tachycardia was 1.2% in patients receiving Betmiga 50 mg. Tachycardia led to discontinuation in 0.1% patients receiving Betmiga 50 mg. The frequency of urinary tract infections was 2.9% in patients receiving Betmiga 50 mg. Urinary tract infections led to discontinuation in none of the patients receiving Betmiga 50 mg. Serious adverse reactions included atrial fibrillation (0.2%). Adverse reactions observed during the 1-year (long term) active controlled (muscarinic antagonist) study were similar in type and severity to those observed in the three 12-week phase 3 double blind, placebo controlled studies. List of adverse reactions: The table below reflects the adverse reactions observed with mirabegron in the three 12-week phase 3 double blind, placebo controlled studies. The frequency of adverse reactions is defined as follows: very common (\geq 1/10); common (\geq 1/100 to <1/100; uncommon (\geq 1/1000; uncommon (\geq 1/1000); very rare (<1/10,000). Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness. Infections and infestations: Common: Urinary tract infection. Uncommon: Vaginal infection, Cystitis. Psychiatric disorders: Not known (cannot be estimated from the available data): Insomnia*. Eye disorders: Rare: Eyelid oedema. Cardiac disorders: Common: Tachycardia. Uncommon: Palpitation, Atrial fibrillation. Vascular disorders: Very rare: Hypertensive crisis*. Gastrointestinal disorders: Common: Nausea*, Constipation*, Diarrhoea*. Uncommon: Dyspeosia, Gastritis. Rare: Lip oedema. Skin and subcutaneous tissue disorders: Uncommon: Urticaria, Rash, Rash macular, Rash popular, Pruritus. Rare: Leukocytoclastic vasculitis, Purpura, Angioedema*. Musculoskeletal and connective tissue disorders: Uncommon: Joint swelling. Reproductive system and breast disorders: Uncommon: Vulvovaginal pruritus. Investigations: Uncommon: Blood pressure increased, GGT increased, ALT increased. Renal and urinary disorders: Rare: Urinary retention*. Nervous system disorders: Common: Headache*, Dizziness*. *observed during post-marketing experience. Full prescribing information is available upon request.

Reference: 1. Chapple C.R. et al. Neurourol Urodynam 2014 Jan:33 (1):17-30 2. Hong Kong package insert of Betmiga® Apr 2016





Approaches in prevention of cognitive decline

Dr Joseph SK KWAN

MBChB, MPhil, MD, FRCP, FHKCP, FHKAM, FRSPH

Consultant Physician, Division of Stroke & Neuroscience, Charing Cross Hospital, Imperial College NHS Foundation Trust Past Clinical Associate Professor of Geriatric Medicine, Department of Medicine, Hong Kong University



Dr Joseph SK KWAN

New definition of Alzheimer's disease for research

Understanding and effectively treating Alzheimer's disease (AD) and other dementias may be the most difficult challenge for the medical and scientific community in this century. The field has experienced monumental challenges developing new and effective drug therapies. One of those unexpected challenges is recruiting the correct patients for the suitable experimental drug trial. This may at first seem straightforward for AD, but recent evidence demonstrated that up to one in three patients with a label of AD did not actually have AD-related brain damage. The reason for this is that the definition of what constitutes AD has been unclear and the clinical diagnosis may not match the pathological findings. As a result, the "NIA-AA Research Framework: Towards a Biological Definition of Alzheimer's Disease"was published in April 2018¹. It proposed a shift of the definition of AD for research, from the current one (based on cognitive changes and behavioural symptoms with biomarker confirmation) to a strictly biological construct. Essentially, AD will be defined biologically by the presence of pathological brain changes or their biomarkers, and cognitive impairment will be viewed as a symptom or sign of the disease, rather than its definition. The new framework will use the "AT(N) Biomarker System" that represents three major biomarkers of AD - amyloid, tau, and neurodegeneration. 1) "A" refers to beta-amyloid (Aβ) as measured either by amyloid positron emission tomography (PET) imaging of amyloid plaques or in the cerebrospinal fluid (CSF) as Aβ42 or the Aβ42 to Aβ40 ratio. 2) "T" refers to tau pathology as measured by CSF phosphorylated tau (p-tau) or tau PET imaging of parenchymal neurofibrillary tangles. 3) "(N)" refers to neurodegeneration or neuronal injury and dysfunction, as measured for example by hippocampal volume, cortical volume, or CSF total tau (T-tau). Hence, the term "AD" will refer to patients with both A and T biomarkers, whereas those with A only will be referred to as "Alzheimer's pathological change".

This system is akin to regarding an abnormal HbA1c to indicate the presence of diabetes, or raised cardiac enzymes to indicate an acute myocardial infarction, whether or not clinical symptoms are present. This represents a major evolution in how we think about AD. The major aim of this new framework is to enable the conduct of prevention trials amongst patients with preclinical stages of AD, i.e. prior to overt cognitive decline.

In addition, it could also be useful in tailoring treatment to the individual when appropriate specific treatments become available one day.

Exercise as medicine to slow down cognitive decline

Mild cognitive impairment (MCI) is regarded as a precursor for AD or other forms of dementia. About 15% of people over 65 years are at risk of developing MCI, and about 50% of these could go on to develop AD within the next 5 years. A new recommendation from the American Academy of Neurology states that exercise could in fact be the best "prescription" for MCI, when no medication is currently FDA-approved². The recommendation is to do a total of 150 minutes of regular aerobic exercise per week. This amount can be broken up in different ways, e.g. 50 minutes x 3 times per week, or 30 minutes x 5 times per week. The important point is that the exercise should be vigorous enough to work up a sweat, but not so strenuous that you cannot hold a conversation. Exercise not only improves memory, it also helps to lower blood pressure, improve cardiac health, combat sleep disturbances, poor appetite and lift the mood. Early actions may keep memory problems from getting worse. Unfortunately, there is no evidence that exercise could stop it altogether.

Sleep and cognitive decline

A new study found that a sleepless night could cause raised levels of $A\beta$ at rates that the brain could not clear as fast as it was produced³. The study only recruited 8 people, but each person participated in several different sleep scenarios: staying up all night; getting a typical night's sleep without any sleep aid; or using a prescription sleep medication increased slow-wave sleep (the kind that people need in order to wake up feeling refreshed). Participants were between 30 and 60 years old with no history of sleep problems or cognitive decline. Researchers found that people who were sleep deprived for just one night had Aß levels that were up to 30% higher than those who got a full night's sleep. Those levels are around what scientists see in the brains of those who are genetically predisposed to Alzheimer's. When Aβ are high, it is more likely that the protein will form into plaques, which is one of the hallmarks of AD. The biggest concern is for people who are chronically sleep deprived. In Hong Kong, at least 30-50% percent of people do not get the recommended minimum of seven hours of sleep each night.





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Repatha® (Evolocumab) Abbreviated Prescribing Information

Repatha® (Evolocumab) Solution for Injection in Pre-filled Syringe/ Autoinjector 140mg

NDICATIONS. Repatha® Solution for Injection in Pre-lined syringe/Autoinjector 140 mg is indicated as an adjunct to diet and maximally tolerated statin therapy for the treatment of adults with heterozygous familial hypercholesterolemia (HeFH) or clinical atherosclerotic cardiovascular disease (CVD), who require additional lowering of low density lipioprotein cholesterol (LDL-C). It is also indicated as an adjunct to diet and other LDL-lowering thereins (e.g., statins, ezetimibe, LDL apheresis) for the treatment of patients with homozygous familial hypercholesterolemia (H6FH) who require additional lowering of LDL-C. DoSAGE AND ADMINISTRATIONS: The recommended subcutaneous dosage of Repatha in patients with P6FH is 420 mg once monthly. To administer with primary hyperlipidemia with established clinical atherosclerotic CVD is either 140 mg every 2 weeks OR 420 mg once monthly. The recommended subcutaneous dosage of Repatha in patients with H6FH is 420 mg once monthly. To administer A20 mg, give 3 Repatha injections consecutively within 30 minutes. CONTRAINDICATIONS. Repatha is contraindicated in patients with a history of a serious hypersensitivity reaction to Repatha. PECIAL WARNINGS AND PRECAUTIONS For USE: Allergic Reactions; Rash and urticaria have occurred. If signs or symptoms of serious allergic reactions occur, discontinue treatment with Repatha, treat according to the standard of care, and monitor until signs and symptoms resolve. ADVERSE REACTIONS: Common adverse reactions in clinical trials (5-6% of patients treated with Repatha and occurring more frequently than placebo): anasopharyngitis, upper respiratory tract infection, influenza, back pain, and injection site reactions. Immunogenicity: As with all therapeutic proteins, there is potential for immunogenicity. There was no evidence that the presence of anti-drug binding antibodies impacted the pharmacokinetic profile, clinical response, or safety of Repatha, but the long-term consequences of continuing Repatha treatment in the presence of anti-drug binding antibodies are unknown. INTERACTIONS: An approximately 20% decrease in the Cmax and AUC of evolocumab was observed in patients co-administered with a high-intensity statin regimen. This difference is not clinically meaningful and does not impact dosing recommendations. PREGNANCY AND LACTATION: <u>Pregnancy</u>: There are no data available on use of Repatha in pregnant women to inform a drug-associated risk. Breast-feeding: There is no information regarding the presence of evolocumab in human milk, the effects on the breastfed infant, or the effects on milk production. <u>PEDIATRIC, RENALLY AND LEPATIC IMPAIRMENT</u>: Pediatric: The safety and effectiveness of Repatha have not been established in pediatric patients with HoFH who are younger than 13 years old, and in pediatric patients with primary hyperlipidemia or HeFH. <u>Geriatric</u>: In controlled studies, 1420 patients treated with Repatha were ≥ 65 years old and 171 were ≥ 75 years old. No overall differences in safety or effectiveness were observed between these patients and younger patients, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. Renal Impairment: No dose adjustment is mild to moderate renal impairment. No data are available in patients with severe renal impairment. Hepatic Impairment: No dose adjustment is needed in patients with mild to moderate hepatic impairment (Child-Pugh A or B). No data are available

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HK-00333-RFP-2017-III





INDISPENSIBLE PARTNERS TO PROTECT THE BONES



XEEVA® (denosumab) Solution for Injection 120 mg
MDICATIONS Indicated for prevention of skeletal related events (pathological fracture, radiation to bone, spinal cord compression or surgery to bone) in adults with bone metastases from solid tumours, and treatment of adults and skeletally mature adolescents with giant cell tumour of bone that is unresectable or where surgical resection is likely to result in severe morbidity. DDSAGE AND ADMINISTRATION Supplementation of at least 500 mg activities and adult via the properties of adults in research and an adult via the properties of adults in research and an adult via the properties of adults in research and an adult via the properties of adults in the thigh, abdomen or upper arm, Giant cell tumour of bone. The recommended dose of XEEVA is 120 mg administered as a single subcutaneous injection once every 4 weeks into the thigh, abdomen or upper arm, diant cell tumour of bone. Check the thigh, abdomen or upper arm with additional 120 mg doses on days 8 and 15 of treatment of the first month of therapy, Patients with renal impairment. Bn dose adjustment is required in patients with renal impairment. Patients with hepatic impairment. Endes a few and 150 to recommended of the patients with patients with patients with patients with patients with patients with part cell tumour of bone. CONTRAINDICATIONS Contraindicated in patients with renal impairment. Enderly patients is a contrained to a patient with severe, untreated hypocalcaemia. Contraindicated in patients with unhealed lesions from dental or oral surgery. SPECIAL WARNINGS AND PRECAUTIONS FOR USE Calcium and Vitamin D supplementation. Supplementation with a claim and vitamin D is required in patients with unhealed lesions from dental or oral surgery. SPECIAL WARNINGS AND PRECAUTIONS FOR USE A claim and Vitamin D is required in patients with unhealed lesions from dental or oral surgery. SPECIAL WARNINGS AND PRECAUTIONS FOR USE A claim and Vitamin D supplementation. Supplementation with a surgery is a surgery of th

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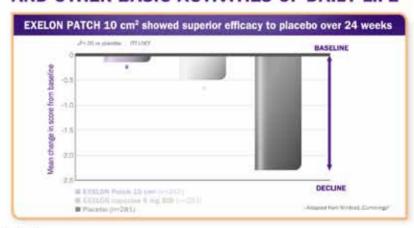






ARE YOUR **DECLINING** ALZHEIMER'S DISEASE **PATIENTS LOSING THEIR** INDEPENDENCE?

HELP PATIENTS COPE WITH PERSONAL HYGIENE AND OTHER BASIC ACTIVITIES OF DAILY LIFE



EXELON PATCH 10 cm2 significantly improved **Activities of Daily Living** (ADLs), such as the ability to groom and dress1

ITT LOCF = Intention to treat -last observation carried forward.

* EXELON PATCH 10 cm⁻ showed superior efficacy over placebo as measured by improvement in the Alzheimer's Disease Cooperative Study-Activities of Daily Living (ADCS-ADL) scale and global functioning over 24 weeks (P<.05)1

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On the other hand, AD itself can cause changes in the brain that lead to a disruption of their internal clock, which disturbs sleep and leads to behaviours like rummaging in the middle of the night or sleeping through the day. Another study has shown that a change in circadian rhythm actually occurs much earlier than previously thought, in people who have normal memory recall, but may actually be in the preclinical stage of AD, i.e. showing signs of Aβ plaques in the brain but no overt symptoms of cognitive decline. This study investigated 189 cognitively normal older adults⁴. All were tested for levels of Aβ via a PET scan or by measuring cerebrospinal fluid. Most of the 189 adults were normal sleepers without signs of Aβ. But of the 50 that did have abnormal test results for Aβ, all had significant disruptions in their internal clocks (total sleeping hours and fragmented sleeping pattern). Although this demonstrates that disruptions in circadian rhythms may serve as a biomarker for preclinical disease, the directionality of causation remains unclear - whether circadian rhythm disruption leads to AD, or if the disruption is an early symptom of the disease.

Alcohol and dementia

The neurotoxic effects of alcohol on brain health remain controversial and unclear. Some dementia experts believe that a glass of red wine is beneficial in preventing AD, whereas others regard alcohol in any amount as dangerous for the brain. A new study found that, according to data from over 13,300 men and women, excessive alcohol could be a serious risk to cognitive health, especially after middle age⁵. Researchers pulled participants from a large database called the UK Biobank, to which volunteers reported medical data, including how often they drank alcohol. People enrolled in this study reported drinking once or more per week. They were given reaction-time tests using a computer programme over 5 years. Researchers found that drinking up to 10 grams of alcohol per day (a glass of wine is about 16 grams) was associated with an improved reaction time, but anything more the 10 grams per day was related to a decline in reaction time. The current recommendation in the UK for alcohol consumption is no more than 16 grams per day; the US recommends no more than one drink for women and two for men. These findings suggest that 10 grams per day (the equivalent of a light beer or a half glass of wine) would be a more prudent recommendation, especially for older adults.

Diet and dementia

What can we eat to reduce our risk of developing AD? A diet which focuses on vegetables and whole grains, and moderate on fish, poultry and wine, may lower the risk of developing AD by up to 53%. This diet is also known as the MIND Diet. It combines the Mediterranean and the DASH (Dietary Approaches to Stop Hypertension) diets, which have both been shown to have protective effects against cardiovascular conditions that in turn can impact brain health. The MIND diet recommends two or more servings of berries and at least 6 servings of green leafy vegetables (e.g. kale, spinach and lettuce) per week, eating nuts throughout the week, beans nearly every other day, 3 servings of whole grains per

day, at least one fish meal and two poultry meals per week and one glass of wine per day. The MIND diet recommends limiting red meats, pastries and sweets; consuming less than one tablespoon of butter and stick margarine per day, and less than one serving of cheese and fast food per week. In a landmark study followed over 900 people between the ages of 58 and 98 years old without dementia, those who adhered to the diet the best had a 53% reduction in the risk of AD, and those who were moderately adherent to the diet still had a 35% reduction rate⁶. This demonstrates the connection between heart and brain health; and since there is clear evidence that diet influences heart health, it is of no real surprise that brain health can also be improved. Cardiovascular conditions such as hypertension, heart disease, diabetes, stroke and obesity are associated with AD, and diet is an important risk factor for all of these conditions. What remains unclear is how physical and cognitive exercises interact with the MIND diet, and whether health supplements (e.g. vitamin B, choline) provide additional benefits.

Retirement and cognitive decline

"Use it or lose it" is the rule of thumb for brain ageing, but is it true when it comes to retirement? The idea is that if you do not regularly exercise your brain with social interactions and challenges, this lack of activity could accelerate cognitive decline or even the onset of dementia. A new large British study showed that short-term memory declined almost 40% faster when employees transitioned to retirees, even when they controlled for normal age-related decline⁷. The study tracked over 3,400 civil servants who were part of a long-term health research project. They gave the participants memory tests for up to 28 years, from 14 years before retirement to 14 years after retirement. These tests measured verbal memory, word recall, reasoning and verbal fluency. Even taking age-related cognitive decline into their calculations, they still found that retirement was associated with a 38% fall in verbal memory. Participants who held higher ranking jobs did better on the verbal memory tests while they were employed, but that protective effect dropped off once they entered retirement.

Eye is the window to your brain

Although the retina is outward facing, it's made up of neurons that communicate directly with the brain, making it an easy and accessible way to track what may be going on in the brain. A new study found that people whose eyes showed changes in small blood vessels at age 60 may be more likely to develop cognitive problems by age 808. The small blood vessels reflected in the eyes could be a roadmap to what is going on in the brain because the blood vessels in the eyes and the brain are so similar anatomically. Researchers looked at the eyes of 12,317 people over 20 years. They gave them memory and thinking tests and took pictures of their eyes using a special retinal camera. Of all the people analyzsed, about 5% had some sort of retinal damage. People with moderate to severe damage, researchers observed, were more likely to have a dip in their memory score, compared to people with healthy eyes. This is consistent with previous evidence that suggests

賽馬會耆智園的服務

賽馬會耆智園是一所非牟利腦退化症綜合服務中心,於2000年投入服務。本園 由香港賽馬會慈善信託基金捐助成立,並由香港中文大學管理,致力為腦退化症人 士提供一站式服務及訓練,減慢認知能力的衰退速度,維持正常的社交活動,並透 過各項支援服務紓緩腦退化症人士家屬的身心壓力,同時積極進行培訓及研究,推 動腦退化症服務發展。

本園擁有一組專業人員,當中包括社工、職業治療師、物理治療師、護士、醫生、營養師、照顧員及科研人員等。本園更得到學術研究人員的指導及建議,並不斷進行各項專業研究。服務內容如下:

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that the retina thins before the onset of fronto-temporal dementia (FTD), and that $A\beta$ could show up in the eye the same way it shows up in the brain, but up to 20 years before symptoms begin.

Finding new drugs for AD

There are currently only 5 drugs approved by the FDA for the treatment of AD. Only 3 drugs have been approved in the last 14 years, and more than 100 new drugs have been halted in development. The best any drug can do is help some of the people some of the time for a while. Eventually they all stop working. Nothing cures AD and nothing does any better than slowing the progression for a time. Contrast this with the fact that around half of all cancer trials show positive results. Pfizer, one of the world's biggest pharmaceutical companies, recently announced that they would abandon all investment on research into AD and Parkinson's disease. High profile drugs like intepirdine and idalopirdine, have all recently failed to slow the progression of the disease. However, much of what we know about AD was discovered through failed trials. Optimists believe that these additions to the body of scientific knowledge will eventually lead to therapies that could successfully slow, stop or prevent this devastating disease in the future. In the UK, the Alzheimer's Society has committed £50m to fund new

research at the UK Dementia Research Institute (UK DRI) alongside Alzheimer's Research UK and the Medical Research Council. By working to understand the processes that cause dementia in unprecedented detail, the UK DRI researchers aim to reinvigorate the pipeline for drugs that can slow, stop or prevent this devastating condition. In the USA, the Alzheimer's Association is also launching the US POINTER study this year, the first of its kind in the US, that will look at how multi-dimensional lifestyle interventions affect the risk of AD. The Alzheimer's Association has committed more than \$20m to advance 23 clinical trials that look at various aspects of AD. So, the hope remains alive for a breakthrough in the next decade of dementia research.

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Dermatology Quiz



Dermatology Quiz

Dr Chi-keung KWAN

MBBS(HK), FRCP(Glasg), FHKCP, FHKAM(Med) Specialist in Dermatology and Venereology



Dr Chi-keung KWAN



Fig.1: multiple reddish spots on right forearm

A 55-year-old man complained of multiple reddish growths on his forearms. He did not remember the duration of onset clearly. It seemed to have started several years ago and noted increasing in number. Physical examination revealed multiple small reddish dome-shaped papules on the forearms, otherwise, it was asymptomatic.

Ouestions

- 1. What is the diagnosis of the skin lesion?
- 2. What is the underlying pathology?
- 3. How do you manage this gentleman?

(See P.44 for answers)

Recognition and Management of Anxiety and Depression in Older People

Prof Linda CW LAM

MBChB (CUHK), MD(CUHK), FRCPsych, FRCPsych(Hon), FHKCPsych, FHKAM(Psychiatry) *Professor, Department of Psychiatry, the Chinese University of Hong Kong*



Prof Linda CW LAM

Anxiety and depressive disorders are highly prevalent mental conditions across the lifespan. These mental disorders cause significant impact on a person's psychosocial functioning. In the Global Burden of Disease Study 2015, mental and behavioural disorders were the leading causes of years lived with disability (YLDs). In the US, diseases causing the largest number of YLDs were low back pain, major depressive disorders, other musculoskeletal disorders, neck pain and anxiety disorders. In older adults, these conditions are no less common. Quite on the contrary, recognition and management of these conditions in the older adults are frequently complicated by comorbid cognitive impairments and medical diseases.

Recognition of anxiety disorders

Anxiety syndromes

Anxiety disorders are a group of related syndromes characterised by excessive worries that affect a person's psychosocial functioning. Generalised anxiety disorder refers to a state of pervasive free floating anxiety lasting for a period of usually over 6 months. The persistent worries are subjectively irrational, excessive and difficult to control. Anxiety feelings are associated with restlessness, fatiguability, difficulty in concentrating, muscle tension and sleep disturbances. Panic disorder, on the other hand, refers to a condition occurring for at least one month. Patients suffering from panic disorder experience recurrent short episodes of unexpected rapid surge of intense fear or discomfort with palpitation, sweating, shaking, shortness of breath, abdominal discomfort, dizziness, sense of losing control and impending death. Phobic disorder is characterised by marked fear or anxiety about a specific situation or objects. Outside the situation, the person does not usually experience distressing anxiety symptoms.³

Common comorbid conditions

In cognitively intact older adults, the presentation of anxiety symptoms does not differ significantly from younger age groups. However, even in people with apparently intact functioning, it is important to recognise that the complaints of late-onset anxiety may signify subtle cognitive decline. According to findings of recently published studies, it is increasingly recognised that people with anxiety symptoms may have higher risks of cognitive decline, and some exhibit pre-clinical Alzheimer's pathology. Thus, it is important to inquire beyond the presentation of excessive worries and explore features of cognitive decline. If necessary, a screening test for cognitive function such as the clock

drawing test or Montreal Cognitive Assessment may add information as to comorbid cognitive impairment.⁶⁷ It is also common that anxiety symptoms are manifestation of physical health problems. People with cardiac arrhythmia, respiratory distress and anaemia may have somatic symptoms mimicking anxiety disorders.

Recognition of Depressive disorders

Depressive syndromes

Depressive disorder is characterised by a period, usually two weeks or more, of depressed mood, loss of interest, pessimistic thoughts, reduced activity level and depressive cognition.³ Depressive cognition refers to a persistent negative world view with a sense of guilt, uselessness and hopelessness. The syndrome is also associated with somatic symptoms such as insomnia, weight loss, psychomotor retardation, constipation and loss of libido. In moderate to severe depression, there is risk of deliberate self harm, suicide and violence. During the assessment of depressive syndromes in the elderly, assessment of risk is of paramount importance. The past history, current planning and hopelessness are alerts for clinicians. In terms of activity level, many patients present with reduced activity levels, but some patients may present with agitation and irritability. Psychotic symptoms of delusions and hallucinations with sad themes may be associated with severe depression in the elderly, which was described as melancholia in the older

Depressive symptoms are relatively common in the older community. From previous studies in Hong Kong, it is estimated that around 4% of people over 60 years of age reported significant depressive symptoms. Women and people with cancer, Parkinson's disease and history of stroke were associated with higher risks of suffering from depressive symptoms. People who suffer from depressive symptoms for over 2 years are usually considered as having dysthymia.

Common comorbid conditions

While psychosocial stressors are acknowledged significant contributors that may trigger or perpetuate the mood symptoms, it is equally important to recognise that depression could be associated with many physical conditions. Chronic pain and persistent physical distress are understandably associated with the development of adverse mood state. It has also been reported that malignancy is associated with early manifestations of depressed mood, which may be independent of clinical status of the tumour. 9 Medication frequently used in the



geriatric patients such as adrenergic blockers, calcium channel blockers, statins, steroids, anti-parkinsonian agents may cause depression. The temporal relationship between onset of depressive symptoms and introduction of additional medication will give a clue as to the potential causal relationship.

Significance of cognitive impairment

Depression in the older community bears a complex bidirectional relationship with cognitive impairment. In older patients presenting with major depressive disorders, it is frequently associated with impaired executive function, poor motivation and abulia. The depressive dysexecutive syndrome has been hypothesised as related to disturbances in frontal subcortical circuitry implicated in late-life depression, especially prevalent in patients with white matter ischaemia and small vessel disease. ^{10,11}

Towards the more severe spectrum of vascular burden in the brain, people with vascular dementia also present with significant depression. Depressive syndrome does not only occur in post-stroke depression, it is also prevalent in the subcortical vascular dementia where the frontal subcortical circuitry is affected by chronic ischaemia of small vessels and infarcts. With the high prevalence of diabetes, hypertension and hyperlipidaemia in Hong Kong, the risks of vascular dementia presenting with depressive mood are substantial.

Management of Anxiety and depressive symptoms

Management of depression and anxiety in older adults requires a comprehensive approach. Clinicians consider strategies that alleviate the mood symptoms, detect medical comorbidity or dementia, and optimise independent functioning. A quick inquiry of changes in the psychosocial situations, physical examination, drug history and cognitive screen will help to minimise the risks of omission. Attention to medical disorders with optimal control of cerebrovascular risks and chronic pain constitute an important dimension of medical management.

Non-pharmacological approaches

For many patients with mild anxiety and depressive symptoms, lifestyle advices should not be considered purely a layman's approach. Physical exercise has been reported as beneficial to depressive symptoms and may be useful alternatives or adjuncts to milder mood problems. There is also evidence to suggest that mind body exercises such as yoga or tai chi, are also beneficial for a range of stress-related symptoms. 12-15 As a piece of therapeutic advice to older adults, attention should be paid to avoid exercise-related injury and optimise tolerability in older adults. It is also equally important to state the importance of continued practice for beneficial effects to be maintained. Stress management techniques such as breathing exercise and progressive muscle relaxation are useful for anxiety symptoms. Older adults with cognitive decline and compromised functioning experience great limitations in initiating changes towards healthy lifestyles. They should be advised, with the engagement of family members, for

structured activity interventions widely available in elderly centres around Hong Kong.

Pharmacological intervention

Drug use in the elderly should have a good balance of risks and benefits. For severe symptoms of anxiety, psychotropic medication may be considered after nonpharmacological approaches have been optimised.

Selective serotonin reuptake inhibitors (SSRI) (e.g. sertraline, citalopram or paroxetine), nor-adrenergic and specific serotonin antidepressant (e.g. mirtazapine) are considered potential treatment for moderate to severe anxiety and depressive symptoms. SSRIs with sedative effects are considered relatively safe. On the other hand, it is important to observe for drug-drug interactions, or adverse effects such as hyponatraemia, which is more common in the older age group. In patients who develop lethargy and reduced responsiveness with recent administration of antidepressant, the possibility of hyponatraemia should be considered.

Pregabalin, a GABA analogue, is an approved drug for epilepsy and neuropathic pain. ¹⁶ It is also approved for the treatment of generalised anxiety disorders in Europe. Pregabalin has significant anxiolytic effects and may substitute the use of benzodiazepine for anxiety in the elderly. Benzodiazepine acts on the GABA receptor and possesses sedative properties. It could be used as hypnotics and anxiolytic for prominent symptoms. However, owing to the risks of respiratory suppression, drowsiness and potential dependence, its use in older adults should be considered very carefully. If prescription is necessary, the duration should be short to avoid tolerance and dependence.

In patients with dementia presenting with mood symptoms such as apathy or irritability, treatment with acetylcholinesterase inhibitors and memantine (for moderate to severe Alzheimer's disease) may help to reduce mood and other behavioural disturbances secondary to the dementia syndrome.

Summarising current understanding, mood disorders in older adults are common and affect psychosocial functioning. A high index of suspicion for comorbidity will guide clinicians towards appropriate treatment and minimise polypharmacy.

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14 Aug	Ultrasonography of early pregnancy complications including scar pregnancy	Dr. Vincent CHEUNG Clinical Associate Professor in Obstetrics& Gynaecology The University of Hong Kong
21 Aug	Ultrasonography of placenta, liquor and membranes	Dr. TY FUNG Chief of Service, Obstetrics & Gynaecology Hong Kong Baptist Hospital
28 Aug	How to integrate three- and four-dimensional ultrasonography in obstetric sonography?	Dr. KY LEUNG Consultant and Chief-of-service, Department of O&G Queen Elizabeth Hospital
4 Sep	Nomogram, fetal growth restriction and macrosomia	Dr. Meliza KONG Consultant, Department of O&G United Christian Hospital
11 Sep	Tips in performing routine mid-trimester anomaly scan	Dr. CN LEE Consultant, Department of O&G Pamela Youde Nethersole Eastern Hospital

Date: 7, 14, 21, 28 Aug, 2018 & 4, 11 Sep, 2018 (Every Tuesday)

Time: 7:00 p.m. - 8:30 p.m.

Venue: Lecture Hall, 4/F., Duke of Windsor Social Service Building, 15 Hennessy Road, Wanchai, Hong Kong

Course Fee: HK\$750 (6 sessions)

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

Tel.: 2527 8898 Fax: 2865 0345 Email: info@fmshk.org
Application form can be downloaded from website: http://www.fmshk.org



Prevention of suffering at the end of life for our older population

Dr Raymond SK LO

MBBS, MD, MHA, Dip Geri Med, Dip Palliat Med, FHKCP, FRCP, FHKAM Immediate Past President, the Federation of Medical Societies of Hong Kong Clinical Professor (Honorary), Department of Medicine and Therapeutics, Chinese University of Hong Kong



Dr Raymond SK LO

Humanistic care should be available throughout the disease trajectories in our older people right till the end of life. Older patients often fear not so much their death, but any suffering that may be associated with the dying process. The conceptualisation of suffering is different with different individuals, and it crosses multiple dimensions. While death may be inevitable, the pain and suffering can be prevented or ameliorated. As the guru of geriatrics Prof Bernard Issacs once commented, the undiagnosed is not the same as the irremediable. This notion applies equally to the physical and psycho-spiritual symptoms at the end of life. There has been much advance in palliative medicine over the last couple decades, with research proving that early application of palliative care in conjunction with usual care can enhance both quality and quantity of life.^{1,2}

Urgent need of palliative care in an ageing society

Palliative care for our older people should hence not be denied for whatever reason. The myth that older people require less or no palliative care is a mere perpetuation of ageism. Older people can feel the total pain as much as the young. Older people do not have higher thresholds of anxiety and depression. Older people are not necessarily more tolerant of bereavement. Older people deserve all the support they need when facing advanced incurable diseases. In fact, older people would be equally if not more receptive to the modern notion of integrated palliative care, as it is not about giving up hope.

Traditionally hospice and palliative care originated from the care of patients with incurable cancers. Cancer is of course a disease of the aged, and older people with cancers continue to need our best palliative support. Lately, due attention has also been given to palliative care for non-cancer conditions, such as end-stage organ failures and neurodegenerative diseases. Such conditions and other advanced chronic diseases are also more prevalent in the older population and require full attention. Frailty as a geriatric syndrome however may yet be the category with the most prevalent indication, in a rapidly ageing population.3 Although frailty syndrome has a typical gradual downhill course which may not be easily recognised, early integrative approach with palliative support should be advocated. A long inexorable decline actually requires much more support, for both patients and caregivers.

The World Health Organization Regional Office for Europe published a global policy in 2011 to promote

better palliative care for older people.⁴ The policy stipulated multiple key directions to follow, from establishment of public health policy, whole system approach in improving palliative care for older people in hospitals and communities, national awareness and education, to advance care planning, place of death, and care for family caregivers. Palliative care for dementia was especially highlighted.

Prompt relief of symptoms and burden

Our older patients face multiple morbidity and symptoms with their associated burden. Top physical symptoms include pain, breathlessness, and fatigue. Full discussion on treatment of the various symptoms are beyond the remit of this article, while guidance in palliative management of pain and other symptoms in older people are available both locally and internationally.^{5,6}

There are several key principles in palliating symptoms for older patients which are most worthy of note. Firstly, each symptom necessitates a multidimensional approach. Dame Cicely Saunders, mother of Palliative Care first coined the term total pain, reminding us that pain embraces physical, psychological, social and spiritual components. The principle equally applies in other symptoms. Dyspnoea causes fear and anxiety which aggravates or precipitates further dyspnoea. Nausea and vomiting is complicated with psychological cause and effect. Fatigue can be attributed to many non-physical causes such as depression or demoralisation.

A second principle therefore central to the practice of palliative care for older people would be the comprehensive assessment with trans-disciplinary approach. The comprehensive assessment for older people at the end of life should include a much wider spectrum, covering functional independence, burden and self-perceived burden, carers support system, dignity, participation, quality of life and quality of death. Engagement with skilful co-ordination of input from other disciplines such as clinical psychologists, spiritual care workers, volunteers and community partners is needed for older people at the end of life. It is only with adequate assessment and a full range of support that the older persons can hope for ageing and dying in their place of choice.

A third key principle in relieving symptoms at the end of life is ethical decision-making especially when facing clinical dilemmas. The principles of autonomy, beneficence, non-maleficience and justice need to



be adhered to with minimal infringement. The best interests of our older patients should be followed. The balance of maximum benefit with minimal harm must be pursued, especially for older people facing incurable and terminal illnesses. In this regard, futility of treatment and investigations must be duly recognised. An intervention at the end of life which offers 50% chance of likely benefit but inflicting 48% chance of harm with a potential net gain of only 2% in well-being, will not be desired by most. It is fully understood that medical and health professionals should strive the best in providing a cure, but when cure is no longer realistic, best supportive care should be the goal. Best interests should always reflect the interests of patients rather than that of professionals, especially at the end of life. Consensus of best interests from patients perception may in some situations be albeit difficult to achieve, given the inherent family dynamics in Chinese culture. Autonomy of the patient should always be respected. Good advance care planning is therefore pertinent, especially if opportunity is available while the patient is still cognitively sound.

Timely preparation with advance care planning

Early advance care planning is therefore a required care component in palliative and end-of-life services, especially for older patients. Advance care planning ranges from do not attempt cardiopulmonary resuscitation, no artificial feeding, no invasive interventions to no parenteral fluids or antibiotics. In overseas countries, advance care planning can also include the decision not to hospitalise, or not to be transferred to acute care settings. It should be noted that advance care planning cannot demand futile or harmful treatments. Advance directive can be documented specifically after thorough advance planning discussion with patients and with family understanding. The objective of an advance directive is to minimise suffering and distress, in scenarios like terminal illness, or irreversible coma, or specific end-stage irreversible life-limiting conditions. Advance directive is not fully legalised in Hong Kong. In a recent survey by the Federation of Medical Societies of Hong Kong, amongst a return of 799 questionnaires by doctors and dentists, and 775 questionnaires by the general public, 67% and 63% support legislation for advance directive respectively.⁷ In the same survey, 54% of the doctors and dentists and 53% of the general public prefer dying at home. Time is ripe for more consultations amongst the policy makers and public in respecting and fulfilling patients' choices at the end of life.

Early partnership decision-making through serious illness communication

In order to achieve optimal advance care planning, good communication skills are mandatory. Professionals should be empathic and sensitive to patients' emotions and concerns. Their viewpoints and preferences for their planning at the end of life need to be acknowledged and respected, given the diverse educational and cultural background of our patients, even though they may not be seemingly the best or most obvious choices. A

partnership decision-making process is best for personcentred care, compared to the traditional paternalistic or a laissez faire approach.

In a thorough communication on advance planning with serious illnesses, a structured approach can much facilitate the process. A team at Harvard University has pioneered a Serious Illness Conversation Guide,8 which has since been applied internationally. The guide is not a checklist, and it utilises a step by step approach. It begins with introducing the purpose of discussion, setting the scene, and gaining the patient's rapport. The patient's understanding of current illnesses is explored, with ascertaining of how much they want to know further. The next step is then to help patients to identify their strengths, preferences and especially trade-offs, i.e. which attributes the patient considers most important, and will wish to retain in lieu of suffering from invasive and futile interventions. Finally the discussion will close with the physician helping the patient to identify the goals and plan, which are to be documented and regularly reviewed. The guide has a concise list of twelve questions addressing the above. A Hong Kong Chinese translation of the guide has been developed and verified with back translation by the editor of this issue and his colleagues. A video for sharing will be available on line in the webpage of the Institute of Ageing of the Chinese University of Hong Kong.

Enhancement of quality of life and alleviation of suffering

The ultimate outcome in palliative care for all ages is quality of life. Quality of life has since been more than a research concept, but is measurable and amenable to enhancement with services and initiatives. Overseas studies have already demonstrated the beneficial effect of palliative services on quality of life. A local study has also confirmed that palliative services can maintain quality of life in the last two weeks of life. Metaanalyses have further confirmed a definite beneficial effect in quality of life from specialist palliative services.10 The benefit derived from the delivery of services analysed in this meta-analysis is albeit small, and continuous effort is needed to explore how to maximise the therapeutic effect. Evidence points to the direction that specialist services should be offered early for patients with complex needs. Quality of life of caregivers will also interact with quality of life of patients, and warrant further research.

In the clinical setting for individual patients, quality of life enhancement requires consideration in the main dimensions of physical, psychological, social, support, and spiritual/existential well-being. The spiritual wellbeing is especially important at the end of life, covering issues like the meaning of life, achieving life goals, burden, and whether life is worthwhile. This spiritual/existential domain can be understood by our local Chinese patients, and in fact is the most important domain in predicting overall quality of life. The McGill Quality of Life-Hong Kong version is available for assessing patient's well-being and impact of services. The spiritual/existential domain questions are of course helpful in identifying any spiritual suffering, which if unrelieved may lead to desire to hasten death.

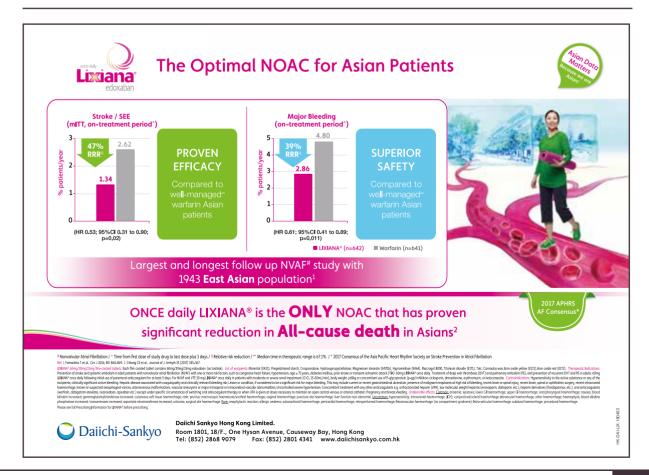


Suffering is a subjective and dynamic experience like quality of life, and requires equally an integrated view. Each patient's suffering is different, with multiple factors like biographical, biological and physical, psychospiritual, cultural, social, environmental, as well as time and illness progression factors at play. 12 Treatment implications are therefore also multidimensional, best provided through a biopsychosocial and a spiritual approach. While prevention and alleviation of suffering is the goal, it should be remembered that one has to be in an ideal world to be free of any suffering. Suffering is an intentional state that can be altered by coping, resilience, transcendence and growth. As Dr Eric Cassell stated, the relief of suffering as well as the cure of disease must be seen as the twin obligations of a medical profession that is truly dedicated to the care of the sick. Physicians' failure to understand the nature of suffering can result in medical interventions that not only fail to relieve suffering, but become a source of suffering itself.¹³

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Lifestyle in the Golden Age – Interview with Dr Ching-choi LAM

Dr Ching-choi LAM

BBS, JP, MBBS(HK), FHKAM(Paediatrics), FHKCPaed, FHKCCM, MRCP(UK), DCH(Ireland)

Chairman, Elderly Commission Member, Executive Council of HKSAR CEO, Haven of Hope Christian Service



Dr Ching-choi LAM

In early agricultural society, the concept of "retirement" did not exist as the life expectancy was rather short and people generally died at an early age. Such concept did not surface until the time of the "Industrial Revolution" in order to protect the workers from being exploited. Hong Kong is recognised as the city with the longest life expectancy. The issue of the ageing population in Hong Kong has stirred a much debated issue in society. At the same time, people are more concerned about the quality of their retirement lives. Have you ever considered what your retirement life would be like after 60 or 65 years old?

This time, Dr Ching-choi LAM, Chairman of the Elderly Commission, was interviewed by Dr Raymond Seekit LO, our Immediate Past President and Issue Editor. During the interview, they discussed and exchanged views on different issues related to life from retirement and beyond.

To retire or not to retire

Q.: How should we prepare for our retirement lives? Dr LAM thought that the best option is not to retire, or else, an alternative would be delaying the retirement. However, if these are not feasible, the retirees should still try to make contribution to society. There is a famous saying, "the biggest epidemic in the world is loneliness, especially among the elderly." As elderly people generally have fewer social responsibilities and lower social status upon retirement, they may experience a reduction of personal value which brings great suffering and loneliness. These can also lead to depression, other diseases or even suicides. Imagine if one-third of the elderly population have unstable emotion or suffer from various diseases, it will undoubtedly cause a great burden to the society. Thus, the most vital, as well as challenging, task ahead of us is to assist the elderly to find their purposes and meanings of life. For example, the society should be restructured so that the retirees can continue their contribution after retirement. It leads to a concept called "ageless employment."

Q.: How can "ageless employment" be put into practice in Hong Kong?

A number of studies reveal the fact that there is an adverse effect on the retirees' physical and mental health if they do nothing after retirement. Hence, ageless employment is one of the solutions. It is Dr LAM's firm belief that ageless employment is practical among most of the doctors in the medical field. "Although it is still difficult to be practised in public systems, policies

should be modified in the society so that everyone can have the opportunity to make contribution. For those who are less physically capable, part-time jobs would be an alternative. For those who have even worse situations, they may still be capable of some teaching jobs or being others' mentors," commented Dr Lam. In the medical field, especially in public organisations, doctors normally retire at 60 years old. The retired doctors are, at the same time, the most experienced and knowledgeable professionals in the medical field. Under this circumstance, if the doctors did not retire, it is commonly believed that the promotion of those in junior level may be obstructed.

Dr LAM thought that the situation could be adjusted. "The Hospital Authority has a good practice regarding retired doctors. Upon retirement, these doctors no longer work in the management level, but they can still work as clinical doctors. In this case, they would not obstruct the promotion of the junior doctors," he said. On the other hand, more part-time employment should be made available so that the retirees can adjust their working schedules according to their own physical conditions and living habit. In the other fields, the experienced staff can gradually change their roles to consultants or mentors. They can be responsible for more training jobs to train the juniors or to be responsible for some task-based jobs. The retirement policy nowadays is self-contradictory in the way that there are not enough doctors in the society on one hand. But on the other hand, the doctors who reach 60 years old are required to retire. Similar situations happen to nurses, other medical professionals as well as those in the management level. Therefore, more flexibility should be introduced into the retirement policies of the public organisations.

Lifelong learning

Q.: Do you think retirees should change their job fields and interests after retirement?

It is crucial for the elderly to equip themselves with other skills and knowledge by offering them further training. In this way, they can have more opportunities to change their job fields as well as start their own businesses. The government has provided some positive responses towards this issue, for example, the age limit of the Continuing Education Fund (CEF) has increased to 70 years old. In addition to the increase in age limit, the amount of CEF also increases from HKD 10,000 to HKD 20,000 for each person. "The mindset in the entire society should be changed. Why should we use the



age to limit people?" said Dr LAM. The pay structure should also be changed. Currently, there is no grey area between full time jobs and volunteers. For those elderly people who do not prefer full-time jobs, being volunteers may not be good choices for them as well because they can earn no income. Employment with half or one-third of payment is worth considering for the elderly.

The Elderly Commission has been jointly organising a school-based Elder Academy Scheme since 2007. Currently, there are 130 Elder Academies, offering various degree courses in some local universities as well as free courses in existing Primary and Secondary schools. The Elder Academy is similar to the third-age universities in overseas, but it has been running in a different mode in Hong Kong. Due to limited land in Hong Kong, it is hard to find space to build schools especially for the elderly. The Elder Academy Scheme provides places for the elderly to study and learn skills such as computer skills. The Elder Academy scheme also aims at encouraging the harmony between elderly and youths. With a nongovernmental organisation as a bridge between the elderly and the schools, young students and the elderly can both benefit from the scheme as they are able to teach and learn from each other.

Living well

Q.: What is your view towards senior housing? Regarding the housing policies, there is much discussion on the two housing type choices—one with the elderly and the young live together and another with all the elderly live together. In fact, some of the elderly do not prefer living with the other elderly while some enjoy the accompaniment of their peers of the same age. Thus, the government should formulate policies which facilitate the diversities. As a result, different types of housing can be arranged to suit different needs of the elderly people, just like different types of employment can be provided for different kinds of retirees.

The housing problem has been the one of the most pressing problems in Hong Kong and the elderly have been facing the same problem. For some well-to-do elderly, they do not own a house to stay since they may have given their houses to their children. Yet, for other elderly people, the houses are no longer suitable for them to live in. "We need to consider elderly people of different society levels. There are "retirement villages" in foreign countries for those wealthier elderly. This type of housing is known as senior housing in Hong Kong and a large proportion of senior housing has been sold out," said Dr LAM. It is suggested that the market should encourage more developers into the market. In fact, more and more developers in Hong Kong have shown interests of investing in the senior housing market. The reward rate may not be as high as direct house purchasing, but buying senior housing is actually beneficial to the cash flow and the recurring income. Senior housing for wealthier elderly has much potential to develop. For the elderly with middle-income, there are also different kinds of senior housing for them. Currently, there are a lot of government policies to help these middle-level elderly, such as waiving the payment of the premium to lower the prices of these houses for seniors.

"The elderly people from grassroots are the most worrying among all. In recent years, we keep on addressing the housing problem among the youngsters. But in fact, this is a false proposition. While the youngsters still have places to stay in, the true housing problem is among the elderly. Currently, there are 27,000 elderly living in subsidised residential care places. However, there are only 7,000 elderly who pass the assessment. The remaining 20,000 elderly may be misplaced or they only have housing needs. This reflects a phenomenon that some elderly people who have high self-care ability are making use of the mechanism to solve their own housing needs. As a result, some elderly, who do not have urgent health care needs, move into the residential care places and occupy the spaces of those who are really in need. The problem can actually be solved using the housing policies," said Dr LAM. It is suggested that "Elderly Hostels" should be rebuilt. The three remaining hostels are located on one floor in different public housing estates. The lift lobbies and corridors have been transformed into common area. Three or four elderly can live inside a flat without any partition. The Housing Authority paused building the elderly hostels because of the repeated incidents of fights among the elderly who live together under one rooftop. The management is the main problem for these hostels. Nowadays, some non-governmental organisations act as the agency in the existing hostels. Most of the elderly there co-manage the hostels together by forming committees. There will be a large room to rebuild these kinds of elderly hostels since not a lot of resources are needed, at the same time, the space could be utilised more efficiently.

Sustaining finance

Q.: What is your opinion towards annuity? Regarding the annuity, it is a similar concept as reverse mortgage. For the elderly people who have rich asset but poor income, the annuity scheme may help transform their asset into regular income. Purchasers will only have to pay a lump sum in exchange for a stable flow of monthly income. It is beneficial as it activates the whole Silver-hair market and the elderly people are more willing to spend money. For the Life Annuity Scheme run by the government, the elderly can get back about HKD 5,000 when they invest 1 million into the scheme. The result of a consultation shows that the scheme is greatly welcomed by the elderly. According to the 2018-19 Budget, the elderly who reach 65 years old can buy the recognised Annuity Scheme reviewed by the government. In return, the government will waive the tax for them which aims at encouraging people to buy the annuity products in private markets.

Caregivers supply

Q.: What are the alternatives in taking care of the elderly in Hong Kong?

As the city with the longest life expectancy, the manpower of caregivers is in high demand in Hong Kong. In respect to other alternative methods of taking care of the elderly, Dr LAM suggested that the government could consider importing foreign workers to Hong Kong. For example, it is suggested that hiring nurses from the Philippines to be personal

caregivers may be one of the choices. In other countries, the same approach is being practised. "To enhance manpower, we may attract youngsters or women to enter the industry. In addition, we should make better use of technology," said Dr LAM. The government has already added two salary points for the frontline staff in subsidised residential care places and the median of their salary reaches HKD 20,000. Despite the increase in salary among the frontline staff, it is quite difficult to recruit people to enter the industry. This is due to the fact that the current unemployment rate is only 2.9% which means that the labour market remains in a state of full employment. Another solution is to teach the young-old some skills so that they are able to take care of the old-old. Furthermore, the quality of the caretakers is also one of the important factors to be considered. For the elderly people who prefer having residential care at home, more qualified medical professionals are required to take care of them. Some non-governmental organisations are offering some training programmes such as courses and public talks for domestic workers to refine the skills of taking care of the elderly.

Integrating with Greater Bay Area

Q.: What is your opinion towards the retirement lives at the Greater Bay Area?

Regarding the retirement lives at the Greater Bay Area, Dr LAM thinks that the implementation is feasible. As the Guangdong Scheme is still running, more than 10,000 Hong Kong people who are currently living in

Guangdong receive the Old Age Living Allowance from Hong Kong every month. Dr LAM thought that retiring in the Mainland China is attractive due to the relatively larger living space and much lower living index there. In the aspect of health care, the medical providers in which Hong Kong people are confident in should be used in that area. For example, in the Shenzhen Hospital, although the medical professionals are hired from the Mainland China, Hong Kong people may prefer hospitals with a Hong Kong-style management system. When there are some more hospitals like the Shenzhen Hospital, it is easier to develop some small communities for the elderly to live in. The government is also willing to facilitate the development of these communities. Because of rich capitals in the Mainland China, in the long run, it is possible to develop small communities in nearby cities in the Guangdong Province, such as Zhongshan, with comprehensive elderly care and medical facilities managed by Hong Kong people, especially for the elderly from Hong Kong.

After retirement, it is crucial for retirees to continue making contribution to society and keep searching for the purposes and meanings of their lives. At the societal level, there should be a wider range of diversities in terms of employment and housing whereas the financial sustainability and health care services for the retirees should be taken care of. With the concerted efforts from different parties in the society, a retirement life can be carefully and thoroughly planned to ensure a colourful and enjoyable stage of life.





The Hong Kong College of Paediatricians (HKCPaed) and the Royal College of Paediatrics and Child Health (RCPCH) will be holding a Joint Diploma in Child Health Clinical Examination in Hong Kong in October 2018, awarding DCH (HK) and DCH (International) to successful candidates.

The DCH Clinical Examination will be held on 25th October 2018 (Thursday).

The DCH Clinical Examination is open to registered medical practitioners in Hong Kong, Candidates should have at least 6 months of Paediatric practice (resident medical officer or intern within 5 years prior to the date of the DCH Clinical Examination) in a recognized institution with acute hospital admissions.

The DCH Syllabus, which has been introduced since November 2009, will serve as the basis for assessments for the DCH Clinical Examination to be held in Hong Kong in October 2018. The Syllabus is available for viewing at the following link on the HKCPaed Website: <a href="http://www.paediatrician.org.hk/index.php?option=com_content&view=article&id=45<emid=46">http://www.paediatrician.org.hk/index.php?option=com_content&view=article&id=45<emid=46

Application

Candidates who wish to sit the DCH Clinical Examination in Hong Kong MUST apply through the Hong Kong College of Paediatricians. Application form, details of application and the format of examination can be found on the HKCPaed website at http://www.paediatrician.org.hk/index.php?option=com_content&view=article&id=45&Itemid=46. Examination Fee is HK\$ 9,000. Available places are limited and will be allocated on a 'first come first served' basis.

Opening date: 15 June 2018 Closing date: 13 July 2018



Expressive Art Therapy 2017

The FMSHK Foundation sponsored two series of Expressive Arts Therapy (ExAT) workshops in 2017. They were run by Ms Snowy Lam, who is an expressive arts therapist. These workshops provided an invaluable opportunity for children and their parents or guardians to experience art-based intervention. They aimed to help children to confront adversity, such as bereavement, and the consequent emotional problems such as anxiety and social withdrawal. Over six sessions, they specifically focused on improving emotional management, interpersonal skills and resilience. This was achieved through making art together in a group under the guidance of an expressive arts therapist.

The use of art in psychotherapy is a burgeoning area of interest. Art activities provide an alternative way for children to express deeply buried emotions, and help them to experience and reconfirm the feeling of being loved and cared for, in an emotionally-safe and non-judgmental environment. During the art-making process, the children learnt to share materials and ideas, accept differences among themselves, express their thoughts and feelings, and interact with others. They were encouraged to connect and express their feelings and thoughts through their created artworks. This process allowed them to resolve psychological issues at their own pace. It offered a nonverbal symbolic pathway to develop and manage behaviour, and improve overall psychological wellbeing by reducing stress and enhancing self-esteem and self-awareness. Feedback to this programme was positive, citing improved parent-child relationship, better adjustment to stress, and adoption of art as a way of expressing emotions.



Course No. C320
 CME/CNE Course

Certificate Course on

Renal Medicine 20

Jointly organised by



Societies of Hong Kong



The Federation of Medical Hong Kong Society of 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
E C	Common Investigation Tests for Renal Disease Including Approach to Proteinuria & Haematuria	Dr Sze-kit YUEN Associate Consultant Department of Medicine & Geriatrics Carltas Medical Ceriter
5 Sep	Update & Management of Glomerular Disease	Dr Elaine Tsz-ling HO Associate Consultant Department of Medicine Tsueng Kwan O Hospital
	Update & Management of Acute Kidney Injury	Dr Chun-hay TAM Associate Consultant Department of Medicine & Geriatrics United Christian Hospital
12 Sep	Nutritional Management in Kidney Diseases	Ms Cherry LAW Dietitian Pamela Youde Nethersole Eastern Hospital
10 Son	Update & Management of Hypertension	Dr Wai-yan LAU Associate Consultant Department of Medicine Alice Ho Mit Ling Nathersole Hospital
19 Sep	Drug Prescribing in Renal Failure	Dr Anthony Kai-ching HAU Associate Consultant Department of Medicine & Geriatrics Tuen Mun Hospital
26 Sep	Kidney Involvement in Multi-System Disorders	Dr Desmond Yat-hin YAP Clinical Assistant Professor Department of Medicine, Queen Mary Hospital Hong Kong University
20 Обр	ABC of Hemodialysis Therapy	Dr Gensy Mei-wah TONG Consultart in Nephrology Renal Centre Hong Kong Baptist Hospital
3 Oct	ABC of Peritoneal Dialysis Therapy	Dr Joseph Ho-sing WONG Associate Consultant Department of Medicine Queen Elizabeth Hospital
5 000	Update on Diabetic Nephropathy	Dr Maggie Ma Associate Consultant Department of Medicine Queen Mary Hospitali
10 Oct	Update & Management of Chronic Kidney Disease	Dr Wing-fai PANG Associate Consultant Department of Medicine & Therapeutics Prince of Wiske Hospital
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ABC of Renal Transplantation	Dr Ka-fai YIM Associate Consultant Department of Medicine & Geriatrics Princess Margaret Hospital

Dates: 5, 12, 19, 26 September 2018 & 3, 10 October, 2018 (Every Wednesday)

Time: 7:00 pm - 8:30 pm

Venue: Lecture Hall, 4/F., Duke of Windsor Social Service Building, 15 Hennessy Road, Wanchai, Hong Kong

Language Media: Cantonese (Supplemented with English)

Course Fee: HK\$750 (6 sessions)

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

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

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



Spring Dinner 2018

The spring dinner of the Federation was held on 13 March 2018. The President, Officers, Executive Committee members, Foundation Directors and the Secretariat colleagues gathered to celebrate the Chinese New Year in 2018. The President, Dr. Mario CHAK first welcomed the new Executive Committee members and colleagues to join the Federation's big family. Furthermore, Dr. CHAK expressed his utmost appreciation and gratitude to Dr Chunon MOK for his remarkable contribution to the Medical Diary as the Editor-in-Chief. Dr. Chak also highlighted new plans for the Federation ahead and was confident in achieving those goals with the continuing support of the Executive Committee. The night was full of happiness and enjoyment. All of us at the Federation wish our readers a prosperous Year of the Dog!







Certificate Course for doctors, nurses, and health care providers

CME/CNE Course Course No. C324

Certificate Course on

Disease in Otorhinolaryngology, Head & Neck Surgery (ENT)

Jointly organised by





The Federation of Medical Societies of Hong Kong

Hong Kong Society of Otorhinolaryngology, Head & Neck Surgery

Date	Topics	Speakers
24 Oct	Diagnosis and surgical management of common facial lesions	Dr. FUNG Tai Hang, Thomas Consultant Department of Ear, Nose & Throat Pamela Youde Nethersole Eastern Hospital
31 Oct	Management of obstructive sleep apnea syndrome - a surgeon's perspective	Dr. CHAN Kin Ming Specialist in Otorhinolaryngology Private Practice
7 Nov	Endoscopic management of sinonasal diseases	Dr. LEE Chi Wai Specialist in Otorhinolaryngology Private Practice
14 Nov	Liquid Biopsy – its role in NPC screening	Dr. LAM Wai Kei Clinical lecturer Department of otorhinolaryngology, head and neck surgery The Chinese University of Hong Kong
21 Nov	How to approach a vertigo patient	Dr. WONG Ka Fai Associate Consultant Department of Ear, Nose & Throat Queen Mary Hospital
28 Nov	Minimal invasive surgery in head and neck disease	Dr. CHUNG Chun Kit, Joseph Associate Consultant Department of Ear, Nose & Throat Queen Mary Hospital

Date: 24, 31 October 2018 & 7, 14, 21, 28 November, 2018 (Every Wednesday)

Time: 7:00 pm – 8:30 pm

Venue: Lecture Hall, 4/F., Duke of Windsor Social Service Building, 15 Hennessy Road, Wanchai, Hong Kong

Course Fee: HK\$750 (6 sessions)

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

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

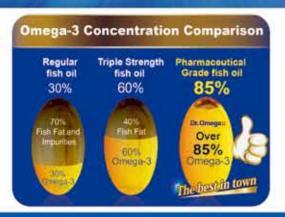
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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	* HKMA Council Meeting	4	*HKMA New Territories West Community Network - PPI-Guidelines and Controversies *UCH x FM x HKMA KE CN - Certificate Course for GPs 2018 - Update on Injectable Diabetes Mellitus Treatment	9	7
•	6	* HKMA Kowloon West Community Network - Novel Combination of Basal Insulin and GLP1 * FMSHK Officers' Meeting	* HKMA Central, Western & Southern Community Network - Diabetes Management in Elderty Patients Annagement in Elderty Patients Kong Neurosurgical Society Monthly Academic Meeting Society Society Society Society Society Monthly Academic Meeting Society Soci	*HKMA Kowloon East Community Network - Conservative Treatment of OA Knee & Surgical Treatment of OA Knee *HKMA - HKS&H CME Programme 2017-2018 ""Update in Medical Practice"	* HKMA Kowloon City Community Network - Atrial Fibrillation Management in Asian Population	14
15	91	* HKMA Annual General Meeting	<u>8</u>	* HKMA New Territories West Community Network - Redefining the Role of DAPT in MI Management - For Who and For How Long? * FMSHK Executive Committee Meeting	* HKMA Shatin Doctors Network – Novel Diabetic Medications in NonEstablished Cardiovascular Diseases Patient	21
*Charity Concert for Life Warriors on Wheels	23	24	* HKMA Central, Western & Southern Community Network - Hyaluronic Add in Osteoarthritis Management - Current Status	*FMSHK Foundation Meeting 26	* HKMA Yau Tsim Mong Community Network - The Latest Update in Hypertension Guideline	28
29	30	31				

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Date / Time	Function	Enquiry / Remarks
3 TUE 9:00 PM	HKMA Council Meeting Organiser: The Hong Kong Medical Association; Chairman: Dr. CHOI Kin; Venue: HKMA Wanchai Premises, 5/F, Duke of Windsor Social Service Building, 15 Hennessy Road, HK	Ms. Christine WONG Tel: 2527 8285
5 THU 1:00 PM	HKMA New Territories West Community Network - PPI- Guidelines and Controversies Organiser: HKMA New Territories West Community Network; Chairman: Dr. CHEUNG Kwok Wai, Alvin; Speaker: Dr. LI Wing Heng, Simon; Venue: Pak Loh Chiu Chow Restaurant, Shop A316, 3/F, Yoho Mall II, 8 Long Yat Road, Yuen Long	Mr. Ian YAU Tel: 2527 8285 1 CME Point
1:00 PM	UCH x FM x HKMA KE CN - Certificate Course for GPs 2018 - Update on Injectable Diabetes Mellitus Treatment Organiser: HKMA New Territories West Community Organiser: United Christian Hospital, Hong Kong College of Family Physians & HKMA Kowloon East Community Network; Speaker: Dr. TSANG Man Wo; Venue: Conference Room, G/F, Block K, United Christian Hospital	Ms. Polly TAI; Ms. Cordy WONG (UCH) Tel: 3949 3430 Tel: 3949 3087 1 CME Point
10 TUE 1:00 PM	HKMA Kowloon West Community Network - Novel Combination of Basal Insulin and GLP1 Organiser: HKMA Kowloon West Community Network; Chairman: Dr. TONG Kai Sing; Speaker: Dr. CHAN Wing Bun; Venue: Fulum Palace, Shop C, G/F, 85 Broadway Street, Mei Foo Sun Chun, Mei Foo	Mr. Ian YAU Tel: 2527 8285 1 CME Point
8:00 PM	FMSHK Officers' Meeting Organiser: The Federation of Medical Societies of Hong Kong; Venue: Gallop, 2/F, Hong Kong Jockey Club Club House, Shan Kwong Road, Happy Valley, Hong Kong	Ms. Nancy CHAN Tel: 2527 8898
7:30 AM WED	The Hong Kong Neurosurgical Society Monthly Academic Meeting –Do Not Go Gentle Into That Goodnight: The Era of the Neurosurgical Oncologist: Tumor Treating Fields and Interstitial Therapy for Glioblastoma Organizer: Hong Kong Neurosurgical Society; Chairman: Dr WOO Yat Ming, Peter; Speaker(s): Dr HO Wan Nok, William; Venue: Seminar Room, G/F, Block A, Queen Elizabeth Hospital	CME Accreditation: 1.5 points College: College of Surgeons of Hong Kong Enquiry: Dr. WONG Sui To Tel: 2595 6456 Fax. No.: 2965 4061
1:00 PM	HKMA Central, Western & Southern Community Network - Diabetes Management in Elderly Patients Organiser: HKMA Central, Western & Southern Community Network; Chairman: Dr. YIK Ping Yin; Speaker: Dr. TONG Chun Yip, Peter; Venue: HKMA Central Premises, Dr. Li Shu Pui Professional Education Centre, 2/F, Chinese Club Building, 21-22 Connaught Road Central, HK	Mr. Ian YAU Tel: 2527 8285 1 CME Point
12 THU 1:00 PM	HKMA Kowloon East Community Network - Conservative Treatment of OA Knee & Surgical Treatment of OA Knee Organiser: HKMA KLN East Community Network; Chairman: Dr. AU Ka Kui, Gary; Speaker: Dr. LAU Yan Kit & Dr. HO Hon Shuen; Venue: Lei Garden Restaurant, Shop No. L5-8, apm, Kwun Tong, No. 418 Kwun Tong Road, Kowloon	Mr. Ian YAU Tel: 2527 8285 1 CME Point
1:00 PM	HKMA – HKS&H CME Programme 2017-2018 –"Update in Medical Practice" Organiser: The Hong Kong Medical Association & Hong Kong Sanatorium & Hospital; Chairman: Dr. David VK CHAO; Speaker: Dr. KWAN Kin Hung, Vincent; Venue: Dr. Li Shu Pui Professional Education Centre, 2/F, Chinese Club Building, 21-22 Connaught Road Central	HKMA CME Dept. Tel: 2527 8285 1 CME Point
13 FRI 1:00 PM	HKMA Kowloon City Community Network - Atrial Fibrillation Management in Asian Population Organiser: HKMA Kowloon City Community Network; Chairman: Dr. CHIN Chu Wah; Speaker: Dr. CHAN Wai Kwong; Venue: President's Room, Spotlight Recreation Club, 4/F., Screen World, Site 8, Whampoa Garden, Hunghom, Kowloon	Ms. Candice TONG Tel: 2527 8285 1 CME Point
17 TUE 9:00 PM	HKMA Annual General Meeting Organiser: The Hong Kong Medical Association; Chairman: Dr. LAM Tzit Yuen, David; Venue: Crystal Ballroom, 2/F, The Cityview Hong Kong, 23 Waterloo Road, Kowloon	Ms. Christine WONG Tel: 2527 8285
19 THU 1:00 PM	HKMA New Territories West Community Network - Redefining the Role of DAPT in MI Management - For Who and For How Long? Organiser: HKMA New Territories West Community Network; Chairman: Dr. CHEUNG Kwok Wai, Alvin; Speaker: Dr. YAN Chun Ting, Fergus; Venue: Atrium Function Rooms, Lobby Floor, Hong Kong Gold Coast Hotel, 1 Castle Peak Road, Gold Coast, Hong Kong	Mr. Ian YAU Tel: 2527 8285 1 CME Point
8:00 PM	FMSHK Executive Committee 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
20 FRI 1:00 PM	HKMA Shatin Doctors Network - Novel Diabetic Medications in NonEstablished Cardiovascular Diseases Patient Organiser: HKMA Shatin Doctors Network; Chairman: Dr. MAK Wing Kin; Speaker: Dr. WU, Enoch; Venue: Diamond Room, 2/F, Royal Park Hotel, 8 Pak Hok Ting Street, Shatin	Ms. Candice TONG Tel: 2527 8285 1 CME Point
22 SUN 8:00 PM	Charity Concert for Life Warriors on Wheels Organiser: The Hong Kong Medical Association Charitable Foundation; Chairman: Dr. LAM Tzit Yuen, David; Venue: Auditorium, Tsuen Wan Town Hall, 72 Tai Ho Rd., Tsuen Wan	Miss Sandy WONG Tel: 2527 8285
25 WED 1:00 PM	HKMA Central, Western & Southern Community Network - Hyaluronic Acid in Osteoarthritis Management - Current Status Organiser: HKMA Central, Western & Southern Community Network; Chairman: Dr. YIK Ping Yin; Speaker: Dr. YIM Wing Ngai, Acmond; Venue: HKMA Central Premises, Dr. Li Shu Pui Professional Education Centre, 2/F, Chinese Club Building, 21-22 Connaught Road Central, HK	Mr. Ian YAU Tel: 2527 8285 1 CME Point



Date / Time	Function	Enquiry / Remarks
26 THU 8:00 PM	FMSHK Foundation Meeting Organiser: The Federation of Medical Societies of Hong Kong; Venue: Council Chamber, 4/F, Duke of Windsor Social Service Building, 15 Hennessy Road, HK	Ms. Nancy CHAN Tel: 2527 8898
27 FRI 1:00 PM	HKMA Yau Tsim Mong Community Network - The Latest Update in Hypertension Guideline Organiser: HKMA Yau Tsim Mong Community Network; Chairman: Dr. HO Kit Man, Carmen; Speaker: Dr. Thomas Prabowo TUNGGAL; Venue: Crystal Ballroom, 2/F, The Cityview Hong Kong, 23 Waterloo Road, Kowloon	Ms. Candice TONG Tel: 2527 8285 1 CME Point

Upcom	ing Event	
1 Sept 2018 14:00-22:00PM	Annual Conference 2018 – Creativity for Care (創意醫療 閱顧無價) Organiser: Hong Kong College of Health Service Executives; Chairman: Dr LIU Shao-haei, President & Ms Macky TUNG, Chairlady; Speaker(s): Dr Neale FONG & Mr Bernard Charnwut CHAN GBS, JP; Venue: Cordis Hotel Hong Kong, Mongkok	Ms Rachel YAU T: 2527 8898 Email: rachel.yau@fmshk.org
29-30 Sept 2018	The 10th Hong Kong Allergy Convention – Personalised Medicine in Allergy Organiser: Hong Kong Institute of Allergy; Chairman: Dr Marco HO; Venue: Hong Kong Convention and Exhibition Centre	HKAC 2018 Secretariat T: 2559 9973 F: 2547 9528 CME Point: To be applied

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CME/CNE Course Course No. C319

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Certificate Course on

Respiratory Medicine 2018







香港胸肺學會



Date	Topics	Speakers
6 Sep	Non-invasive Ventilation and Troubleshooting	Dr Kah-lin CHOO Consultant (MED), NDH
13 Sep	Lung Malignancy from the Medical Oncologist's Perspective	Dr Yim-kwan LAM Consultant (M&G), UCH
20 Sep	Updates on the Management of Pulmonary Infections	Dr Man-po LEE Consultant (MED), QEH
27 Sep	Interventional Pulmonology	Dr Jones KWOK AC (M&G), PMH
4 Oct	Diagnostic Investigations & Pharmacotherapy for Chronic Airway Disease	Dr Maureen WONG COS(MG/ICU), CMC
11 Oct	Alternative Therapy for Dyspnoea	Dr David YU SPT(PHYSIO), QEH

Date: 6, 13, 20, 27 September, 2018 & 4, 11, October 2018 (Every Thursday)

Time: 7:00 p.m. – 8:30 p.m.

Venue: Lecture Hall, 4/F., Duke of Windsor Social Service Building, 15 Hennessy Road, Wanchai, Hong Kong

Course Fee: HK\$750 (6 sessions)

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

Application form can be downloaded from website: http://www.fmshk.org

Answers to Dermatology Quiz

Answer:

- Campbell de Morgan spot
 The diagnosis is Campbell de Morgan spot, also called cherry
 haemangioma or senile angioma. The differential diagnoses
 include pyogenic granuloma, Kaposai's sarcoma, bacillary
 angiomatosis, blue rubber bleb naevus and angiokeratoma.
- 2. Cherry haemangioma is a common, benign cutaneous vascular proliferation of dilated venules in the thickened papillary dermis. The frequency increases with age. It is often widespread in all parts of the body and begins with small cherry red macules or papules and gradually grows very slowly to dome-shaped papules with a cherry red and sometimes dark purple colour.
- 3. Cherry haemangioma requires no treatment because of its harmless and benign nature. The management is mainly conservative and cosmetic. Treatment like shave excision, curettage and electrodesiccation, pulsed dye laser and cryotherapy may be considered only if the lesion causes irritation, haemorrhage or for instances in which the lesions are deemed to be cosmetically undesirable by the patient. However, all these measures may result with a scar or even keloid afterwards.

Dr Chi-keung KWAN

MBBS(HK), FRCP(Glasg), FHKCP, FHKAM(Med) Specialist in Dermatology and Venereology

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THE 1ST β3-AGONIST FOR OAB* PATIENTS WITH PROMISING SAFETY PROFILE PLACEBO-LIKE DRY MOUTH(1.7%) SIDE EFFECT¹



YOUR **1**ST STEP FOR MALE LUTS+ PATIENTS WITH PROMISING SAFETY PROFILE# PLACEBO-LIKE DIZZINESS(1,4%) SIDE EFFECT²



Abbreviated prescribing information of Harnal OCAS® 0.4 mg Tablets

Version: 0.02 Pl version: 5ep 2013. Composition: Tamsulosin HGI Indication: Lower urinary tract symptoms (LUTS) associated with benign prostatic hyperplasia (BPH). Dosage: 1 tab daily, can be taken independently of food. Administration: Swallow whole, do not chew/crunch. Contraindications: Hyperensitivity to tamsulosin Hydrochloride or to any of the excipients. Special warnings and special precaution for use: 4s with other a 1-adrenoceptor antagonists, a reduction in blood pressure can occur in individual cases during treatment with Harnal OCAS® 0.4 mg Tablets, as a result of white, rarely, syncopes can occur, at the finity during treatment with Harnal OCAS® 0.4 mg Tablets, as a result of white, rarely, syncopes can occur in individual cases during treatment and of the properties of the contraint of the properties of the properties of the contraint of the properties of the properties of the contraint of the properties of th

Reported. Full prescribing information is available upon request.

Abbreviated prescribing information of Betmiga* prolonged-release tablets

Version: 038 PJ version: 037 2016. Composition Mirabegron Indication: Symptomatic treatment of urgency, increased micturition frequency and/or urgency incontinence as may occur in adult patients with overactive bladder (OAB) syndrome. Dosage: Adult including elderly: 50 mg once daily with or without food. Administrations: Swallow whole with liquids. Do not chew/divide/crush. Contraindications: Mirabegron is contraindicated in patients with + Presensitivity to the active substance or to any of the excipients. Severe uncontrolled hypertension defined as year. 2 180 mm Hg and/or disabtle lodo pressure = 10 mm Hg. Special warrings and precautions for use: Renal impairment: Betmiga has not been studied in patients with end stage renal disease (GFR < 15 mL/min/1.73 m.2) or patients requiring haemodialysis) and, therefore, it is not recommended for use in this patient population. Data are limited in patients with severe renal impairment: (FRI 15 to 29 mL/min/1.73 m.2) concomitantly receiving storing CPP3A inhibitors. Hepatic impairment: Betmiga has not been studied in patients with severe renal impairment (CRII-15 to 29 mL/min/1.73 m.2) concomitantly receiving storing CPP3A inhibitors. Hepatic impairment: CRII-16-Pugh B) so contained for use in patients with severe renal impairment (CRII-16-Pugh B) so committed in patients with severe hepatic impairment (CRII-16-Pugh B) so committed in patients with severe hepatic impairment (CRII-16-Pugh B) so committed in patients with severe hepatic impairment (CRII-16-Pugh B) so committed in patients with severe hepatic impairment (CRII-16-Pugh B) so committed in patients with severe hepatic impairment (CRII-16-Pugh B) so committed (Presented B) so committed in patients with severe hepatic impairment (CRII-16-Pugh B) so committed (Presented B) so committed (Presented B) so committed (Presented B) so committed (Presented B) so committed (Pres Tack time cutor. Uncommon: Vaginal microlection, Systus, Systiantic usporcess, Not known (cannot be estimated into mice available dead;) inspirition, Narial fibrillation, Nascular disorders: Very rare: Hypertensive crisis*, Gastrointestinal disorders: Common: Nausea*, Constipation*, Diarrhoea*, Uncommon: Dyspepsia, Gastriati, Rare: Lip oedema. Skin and substrate a Skin and substrate a



For the treatment of osteoporosis in postmenopausal women and in men at increased risk of fractures. In postmenopausal women, Prolia® significantly reduces the risk of vertebral, non-vertebral and hip fractures.³

Prolia® (Denosumab) Abbreviated Prescribing Information

Prolia® (Benosumab) Abbreviated Prescribing Information
Prolia® (denonumab) Solution for Injection in Pre-filled Syringe 60 mg/ml. INDICATIONS Prolia is indicated for: i) treatment of postmenopausal women with osteoporosis at high risk for fracture, defined as a history of osteoporotic fracture, or multiple risk factors for fracture; or patients who have failed or are intolerant to other available osteoporosis therapy; ii) treatment to increase bone mass in men with osteoporosis at high risk for fracture, defined as a history of osteoporotic fracture, or multiple risk factors for fracture; or patients who have failed or are intolerant to other available osteoporosis therapy; iii) treatment to increase bone mass in men at high risk for fracture receiving androgen deprivation therapy for nonmetastatic prostate cancer. In these patients Prolia is often a disciplent of the proposed pro PRECIANALY AND LACIALION Pregnancy: Category X. Executes a transcription of the properties of the prop

- S et al. J Clin Endocrinol Metab 2011; **96**: 1727-1736.
- 2. Prolia*, Hong Kong Prescribing Information, Jun 2016. 3. Cummings SR et al. N Engl J Med 2009; **361**: 756-765.

Please read the full prescribing information prior to administration and full prescribing information is available upon request.

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