

CURRICULUM VITAE

LOKE SENG CHEONG

JANUARY 2017

CONTACT INFORMATION	Department of Medicine Faculty of Medicine and Health Sciences Universiti Putra Malaysia E-mail: lokesengcheong@gmail.com Tel: +6012-3126644 (M)
BIOGRAPHICAL INFORMATION	Citizenship: Malaysian UPM Staff ID: A03139
RESEARCH INTERESTS	Calcium and parathyroid disorders. Clinical management of diabetes mellitus (adherence to treatment, Ramadan fasting issues). Gerontology (disability, epidemiology, and gerontechnology). Stem cell therapy (clinical applications). Computer vision technology, machine learning, and low light imaging.
EDUCATION	St. Andrews Secondary School , Singapore Singapore-Cambridge GCE 'O' levels (6 distinctions), 1986 National Junior College , Singapore Singapore-Cambridge GCE 'A' levels (7 distinctions including 'S' papers), 1988 University of Melbourne , Australia MBBS(Melb), 1995 Royal College of Physicians , United Kingdom MRCP(UK), 2000 Ministry of Health , Singapore Specialist Exit Certification (Endocrinology), 2005 Universiti Putra Malaysia , Malaysia MSc(Gerontechnology), exp. mid-2017
PROFESSIONAL AFFILIATIONS	General Medical Council , United Kingdom Since 1995 Medical Council , Malaysia Since 2000 Medical Council , Singapore Since 2001 Academy of Medicine , Singapore FAMS(Endocrinology), 2005 Academy of Medicine , Malaysia AM, 2008 National Specialist Register , Malaysia Medicine, 2008 Endocrinology, 2010

POSITIONS

Law Hospital, United Kingdom
Junior House Officer, 1996
Senior House Officer, 1997-1998

Pilgrim Hospital, United Kingdom
Senior House Officer, 1998-2000

Tengku Ampuan Rahimah Hospital, Malaysia
Specialist, 2001

Tan Tock Seng Hospital, Singapore
Specialist Registrar, 2001-2005
Associate Consultant, 2005-2007

Universiti Putra Malaysia, Malaysia
Senior Lecturer, 2007-2012
Associate Professor, since 2012

Kuala Lumpur General Hospital, Malaysia
Consultant Physician and Endocrinologist, 2007-2010

Kuala Lumpur Sports Medicine Centre, Malaysia
Consultant Physician and Endocrinologist, 2009-2010

Serdang Hospital, Malaysia
Consultant Physician and Endocrinologist, since 2010

ADMINISTRATIVE
POSTS

Universiti Putra Malaysia
Head, Internal medicine unit, 2008
Head, Endocrinology unit, 2009
Deputy Director, Institute of Gerontology, 2010-2013
Head, Postgraduate unit, Institute of Gerontology, 2010-2013
Head, Research unit, Institute of Gerontology, 2012-2013
Chairman for six and committee member for five institutional and faculty committees,
2010-2013

OTHER POSITIONS

Ministry of Health, Malaysia
Co-chairman, National Stem Cell Therapy Clinical Registry, 2008-2010

Ministry of Science, Technology, and Innovation, Malaysia
Committee Member, Task Force On Stem Cells: Ageing & Regenerative Medicine,
2011-2013
Committee Member, Task Force on Thorium-based Nuclear Reactor - Health & Public
Safety, 2013-2014

SCHOLARSHIPS
AND HONOURS

ASEAN Scholarship, Singapore
1983-1986

EMSS Scholarship, Australia
1990-1995

Lee Foundation Scholarship, Malaysia
1990-1994

Tengku Ampuan Rahimah Hospital, Malaysia
Doctor of the Month, 2001

Tan Tock Seng Hospital, Singapore
TTSH Excellent Service Award, 2002
NHG Excellent Service Award, 2003
NHG Best Young Teacher Award, 2003
National Excellent Service Award, 2004
TTSH Excellent Service Award, 2005

Universiti Putra Malaysia, Malaysia
Excellence Certificate, 2007
Excellence Award, 2008

Maquis Who's Who in the World
2010

RESEARCH

Primary Investigator

Diabetes Compliance Project, 2002-2004
Parathyroid 'Hungry Bone' Study (NMRR-07-154-497), 2004-2013
Diabetes in Ramadan Study (NMRR-07-246-519), 2007-2010
WHO GSHS Implementation in Malaysia (NMRR-09-924-4821), 2010
Study to validate calcium gluconate infusion regime for post-parathyroidectomy induced hypocalcaemia (Research ID 7013), 2010
Gynae-Endocrine Clinic Review (Research ID 7423), 2010
Amateur Astronomy Research Project, 2013-2015
Progressive resistance tube training in the elderly with type 2 diabetes mellitus, 2009-2013
Effect of elastic Thera band training in the elderly, 2011-2014
Visual impairment and quality of life, 2011-2014

Co-Investigator

Efficacy of SMS reminder on weight reduction and maintenance (NMRR-07-235-508), 2008-2011
Cartilage Regeneration and Stem Cells Study (NMRR-09-925-4820), 2008-2011
Prospective study of hypoglycaemia in elderly (NMRR-07-879-1151), 2008-2010
ReTREAT2D (NMRR-08-1629-2345), 2008-2012
T2DM: Type 2 Diabetes Mellitus IPM: Idaho Plate Method (NMRR-09-870-3796), 2009-2014
A Prospective Study of Insulin in Diabetes (NMRR-09-591-4285), 2009-2011
Vitamin D status (Research ID 05-01-11-1272RU), 2011
Fonterra Milk Powder Research Project, 2012-2015
PTH sun exposure project (FRGS/1/2014/SKK10/IMU/03/1), 2014-2015

Research Grants

Eight research grants totalling RM1,054,352

PUBLICATIONS

2005

Management of Hyponatraemia in an Outpatient Setting. **Loke SC**, Kon YC, Woo BP
Singapore Family Physician 2005. 31(2).

Calcinosis cutis with siliconomas complicated by hypercalcemia. **Loke SC**, Leow MK.
Endocr Pract. 2005 Sep-Oct;11(5):341-5.

2007

Intraepidermal nerve fiber density as a marker of early diabetic neuropathy.
Umaphathi T, Tan WL, **Loke SC**, et al. Muscle Nerve. 2007 Jan 12;35(5):591-598.

2008

Metabolic control in type 2 diabetes correlates weakly with patient adherence to oral hypoglycaemic treatment. **Loke SC**, Jong M. Ann Acad Med Singapore. 2008 Jan;37(1):15-6.

Ooi CP, Yassin Z, Tengku-Aizan H, **Loke SC**. Carbohydrates for improving the cognitive performance of independent-living older adults with normal cognition or mild cognitive impairment (Protocol). *Cochrane Database of Systematic Reviews* 2008, Issue 3. Art. No.: CD007220. DOI: 10.1002/14651858.CD007220.

2009

Efficacy of an Intravenous Calcium Gluconate Infusion in Controlling Serum Calcium After Parathyroidectomy for Secondary Hyperparathyroidism. **Loke SC**, Kanesvaran R, Yahya R, et al. *Ann Acad Med Singapore* 2009; 38:1074-80.

Saw KY, Hussin P, **Loke SC**, et al. Articular Cartilage Regeneration With Autologous Marrow-Aspirate and Hyaluronic Acid: an Experimental Study in a Goat Model. *Arthroscopy* 2009; 25: 1391-400.

2010

Loke SC, Rahim KF, Kanesvaran R, Wong TW. A prospective cohort study on the effect of various risk factors on hypoglycaemia in diabetics who fast during Ramadan. *Med J Malaysia* 2010; 65: 3-6.

Loke SC, Chin SP, Sivanandam S, Goh PP, Ng RK, Saw KY, Lim TO. The National Stem Cell Therapy Patient Registry of Malaysia - Measuring Clinical Outcomes of Stem Cell Therapy. *Stem Cell Rev.* 2010 Jul 29.

Wong HC, Sagineedu SR, Lajis NH, **Loke SC**, Stanslas J. Andrographolide induces cell cycle arrest and apoptosis in PC-3 prostate cancer cells. *J Pharm Pharmacol.* 2010;5(2):225-233.

2011

Loke SC, Abdullah SS, Chai ST, Hamid TA, Yahaya N. Assessment of Factors Influencing Morale in the Elderly. *PLoS ONE* 6(1): e16490. doi:10.1371/journal.pone.0016490.

Ooi CP, **Loke SC**, Yassin Z, Hamid TA. Carbohydrates for improving the cognitive performance of independent-living older adults with normal cognition or mild cognitive impairment. *Cochrane Database of Systematic Reviews* 2011, Issue 4. Art. No.: CD007220. doi: 10.1002/14651858.CD007220.pub2.

Ooi CP, **Loke SC**. Sweet potato for type 2 diabetes mellitus (Protocol). *Cochrane Database of Systematic Reviews* 2011, Issue 5. Art. No.: CD009128. doi: 10.1002/14651858.CD009128.

Ooi CP, Zaiton A, **Loke SC**, Tengku-Aizan H, Zaitun Y. A Cross-sectional study of Older Adults with Type 2 Diabetes Mellitus in Two Rural Public Primary Healthcare Facilities in Selangor, Malaysia. *Med J Malaysia.* 2011 Jun;66(2):108-12.

Ooi CP, **Loke SC**. Colesevelam for type 2 diabetes mellitus (Protocol). *Cochrane Database of Systematic Reviews* 2011, Issue 10. Art. No.: CD009361. doi: 10.1002/14651858.CD009361.

Al-Shookri A, Khor GL, Chan YM, **Loke SC**, Al-Maskari M. Type 2 diabetes in the sultanate of Oman. *Malays J Nutr.* 2011 Apr;17(1):129-41.

2012

Al-Shookri A, Khor GL, Chan YM, **Loke SC**, Al-Maskari M.. Effectiveness of medical nutrition treatment delivered by dietitians on glycaemic outcomes and lipid profiles of Arab, Omani patients with Type 2 diabetes. *Diabet Med.* 2012 Feb;29(2):236-44. doi: 10.1111/j.1464-5491.2011.03405.x.

Ooi CP, **Loke SC**. Sweet potato for type 2 diabetes mellitus (Review). Cochrane Database of Systematic Reviews 2012, Issue 2. Art. No.: CD009128. doi: 10.1002/14651858.CD009128.pub2.

Hussin P, **Loke SC**, Noor FM, Mawardi M, Singh VA. Malignant Melanoma of the Foot – A Trap for the Unwary. *Med J Malaysia*. 2012 Aug;67(4):418-419.

Ataie-Jafari A, Bt Rahmat A, Abbasi F, **Cheong Loke S**, Qorbani M and Larijani B. Vitamin D status and associated factors in recent onset type 1 diabetic children in Iran. *Journal of Diabetes & Metabolic Disorders* 2012, 11:12. doi:10.1186/2251-6581-11-12.

Loke SC, Tan AWK, Dalan R, Leow MKS. Pre-operative Serum Alkaline Phosphatase as a Predictor for Hypocalcemia Post-Parathyroid Adenectomy. *Int J Med Sci* 2012; 9(7):611-616.

Ooi CP, **Loke SC**. Colesevelam for type 2 diabetes mellitus. Cochrane Database of Systematic Reviews 2012, Issue 12. Art. No.: CD009361. doi: 10.1002/14651858.CD009361.pub2.

2013

Ooi CP, **Loke SC**. Bromocriptine for type 2 diabetes mellitus. Cochrane Database of Systematic Reviews 2013, Issue 1. Art. No.: CD010319. doi: 10.1002/14651858.CD010319.

Ataie-Jafari A, **Loke SC**, Rahmat AB, Larijani B, Abbasi F, Leow MKS, Yassin Z. A randomized placebo-controlled trial of alphacalcidol on the preservation of beta cell function in children with recent onset type 1 diabetes. *Clinical Nutrition* 2013; 32: 911-917. doi:10.1016/j.clnu.2013.01.012.

Ooi CP, **Loke SC**, Yassin Z, Hamid TA. Carbohydrates for improving the cognitive performance of independent-living older adults with normal cognition or mild cognitive impairment. Cochrane Database of Systematic Reviews 2013, Issue 2. Art. No.: CD007220. doi: 10.1002/14651858.CD007220.pub2.

Ooi CP, **Loke SC**. Sweet potato for type 2 diabetes mellitus (Review). Cochrane Database of Systematic Reviews 2013, Issue 9. Art. No.: CD009128. doi: 10.1002/14651858.CD009128.pub3.

Ng TP, Muthuswamy B, Fenech M, Head R, Amarra MS, **Loke SC**. Research and Policy to Achieve Healthy Aging in Asia: Recommendations from an Expert Workshop. *Open Longevity Science* 2013. 7: 1-10.

2014

Ooi CP, **Loke SC**. Colesevelam for type 2 diabetes mellitus: an abridged Cochrane review. *Diabet Med*. 2014 Jan;31(1):2-14. doi: 10.1111/dme.12295.

Motalebi SA, **Loke SC**. Efficacy of Progressive Resistance Tube Training in Community Dwelling Older Adults: A Pilot Study, *International Journal of Gerontology* (2014). doi: 10.1016/j.ijge.2013.12.007.

Ooi CP, Ting TH, **Loke SC**. Ultra-long acting insulin versus long-acting insulin for type 1 diabetes mellitus (Protocol). Cochrane Database of Systematic Reviews 2014. doi: 10.1002/14651858.CD011102.

Tiew KF, Chan YM, Lye MS, **Loke SC**. Factors associated with dietary diversity score among individuals with type 2 diabetes mellitus. *JHPN* 2014. In Press.

Wong HC, Wong CC, Sagineedu SR, **Loke SC**, Lajis NH, Stanslas J. SRJ23, a new semisynthetic andrographolide derivative: in vitro growth inhibition and mechanisms of cell cycle arrest and apoptosis in prostate cancer cells. *Cell Biol Toxicol.* 2014 Oct;30(5):269-88. doi: 10.1007/s10565-014-9282-5.

2015

Loke SC, Lim WS, Someya Y, Hamid TA, Nudin SSH. Examining the Disability Model From the International Classification of Functioning, Disability and Health. *J Aging Health.* 2015 Oct 15. pii: 0898264315609907.

2016

2016 Huei, TJ, Lip, HTC, **Cheong, LS**, and Arulanantham, SA (2016), A Novel Calcium Infusion Regimen after Parathyroidectomy for Renal Hyperparathyroidism.. *Nephrology*, doi: 10.1111/nep.12761.

CONFERENCE ABSTRACTS

2004

SC Loke, EKD Chew, R Dalan. A retrospective analysis of hungry bone syndrome in post-operative parathyroidectomy patients. Abstract P697 International Congress of Endocrinology 2004.

Lim B, bte Othman N, **Loke SC**, Leong YML. A comparison between foreign workers from the Indian subcontinent and ethnic Indians living in Singapore, looking at how a difference in lifestyle affects obesity, blood pressure, and serum lipids. Abstract P845 International Congress of Endocrinology 2004.

2005

Loke SC, Tan AWH, Leow MKS. Hypervitaminosis D as a Cause of Calcinosis Cutis. Abstract P716 ECTS-IBMS 2nd Joint Meeting 2005. *Bone.* 2005 Jun;36 Supp 2: S103-S479.

2008

R Kanesvaran, **S Loke**, R Yahya, T Taib. Efficacy Of An Intravenous Calcium Gluconate Infusion In Controlling Serum Calcium After Parathyroidectomy For Tertiary Hyperparathyroidism. Abstract Mo-P264. Abstracts of the 35th European Symposium on Calcified Tissues. *Calcif Tissue Int.* 2008 Apr 11.

S Loke, R Kanesvaran, KFA Rahim, L Fisal, T Wong, Y Loong. Pre-Operative Serum Alkaline Phosphatase Predicts Hungry Bone Syndrome After Parathyroidectomy For Primary Hyperparathyroidism. Abstract Mo-P263. Abstracts of the 35th European Symposium on Calcified Tissues. *Calcif Tissue Int.* 2008 Apr 11.

2009

Saw KY, Hussein P, **Loke SC**. Neochondrogenesis and role of Stem Cells: An experimental study in goat model. Australian Orthopaedic Association (AOA) Annual Scientific Meeting Cairnes Sept 2009.

Saw KY, **Loke SC**, Jee C. Articular cartilage regeneration in the knee with autologous peripherally harvested stem cells and hyaluronic acid – early clinical results. Australian Orthopaedic Association (AOA) Annual Scientific Meeting Cairnes Sept 2009.

Saw KY, **Loke SC**, Jee C. Articular cartilage regeneration with autologous peripheral blood stem cells and hyaluronic acid following arthroscopic subchondral drillings. Australian Orthopaedic Association (AOA) Annual Scientific Meeting Cairnes Sept 2009.

2010

Loke SC, Chin SP, Sivanandam S, et al. The National Stem Cell Therapy Patient Registry of Malaysia – Measuring Clinical Outcomes of Stem Cell Therapy. South East Asian Conference on Ageing (SEACA2010).

2011

K-Y. Saw, **S-C. Loke**, and Y-G. Tay. A novel approach to neochondrogenesis induced by peripheral blood stem cells and hyaluronic acid. J Bone Joint Surg Br 2011 93-B:(SUPP III) 292.

K-Y Saw, **S-C Loke**, and P. Hussin. Neochondrogenesis and role of stem cells: an experimental study in goat model. J Bone Joint Surg Br 2011 93-B:(SUPP III) 308.

2012

Loke SC. Challenges of an Aging Population - The Elder Village Concept. Social Stability Conference (SSC).

K.Y. Saw, P. Hussin, and **S. Loke**. Articular cartilage regeneration with autologous marrow-derived stem cells and hyaluronic acid: an experimental study in a goat model. J Bone Joint Surg Br 2012 94-B:(SUPP XXIII) 138.

K.Y. Saw, **S. Loke**, and C. Jee. Articular cartilage regeneration with autologous peripheral blood stem cells and hyaluronic acid following arthroscopic subchondral drillings. J Bone Joint Surg Br 2012 94-B:(SUPP XXIII) 174.

2013

Loke SC. Disability in Malaysia - An Overview. International Life Sciences Institute (ILSI) Conference on Healthy Aging in Asia.

Loke SC. Alfacalcidol on Preservation of Beta Cell Function in T1DM. 4th National Diabetes Conference 2013. Kuala Lumpur.

Loke SC. Conceptual framework of functioning and disability in Older Adults. SHBC 2013 Conference, Singapore.

Loke SC. Population Aging: Are we up to the Challenge? SHBC 2013 Conference, Singapore.

2014

Tiew KF, Chan YM, **Loke SC**, Lye MS. Promoting diabetes control with My Healthy Plate in Type 2 diabetes patients. Nutrition Society of Malaysia Annual Scientific Conference 2014. Kuala Lumpur.

BOOKS, CHAPTERS, AND REPORTS

2010

Wong TW, Loong YY, **Loke SC**. Medical Clinical Examination – short cuts. UPM publisher.

2011

Final report on Wellness Research Project, IPTK / MOH.

Ooi CP, **Loke SC**. A review of Clinical trials in emerging botanical interventions for Type 2 Diabetes Mellitus. In e-book Type 2 Diabetes / Book 3. Edited by MB Zimering, MD, PhD. InTech – Open Access Publisher. ISBN 979-953-307-129-8.

Tiew KF, Chan YM, **Loke SC**. Cara Perancangan Makanan Yang Mudah. ISBN 978-967-960-295-1.

2012

National Advisory Report on Stem Cells: Ageing & Regenerative Medicine in Malaysia.
Loke SC (Editor). ISBN 978-983-291-501-0.

2014

Loke SC. Starting Out with Amateur Astronomy – Equipment and Software. ISBN 978-131-046-496-6.

2015

Motalebi SA, **Loke SC**, Hamid TA. Resistance Band Training in the Elderly.

INTELLECTUAL
PROPERTY

2014

Copyright. Loke SC. AstroLight Image Capture and Processing Software for Astronomy (Registration No. 30122014)

2015

Patent. Loke SC. An Astronomical Image Processing and Acquisition Method. (PI2015700827)

Patent. Loke SC. A Method for Autoguiding a Telescope. (PI2015700826)

PUBLICATION
METRICS

Publications

34 journal articles, all citation indexed, 19 in Q1/Q2 journals
Senior author in 12 journal articles
Cumulative impact factor of 100+
H-index 11, citations 386

Conference Abstracts

19 abstracts in national & international conferences

Books, Chapters, and Reports

3 books, 1 book chapter, 2 technical report

Intellectual Property

1 software copyright, 2 patents filed

Journal Review

Reviewer for 3 international and 4 local medical journals, of which 6 are citation indexed, 24 journal article reviews

GRADUATE
SUPERVISION

Universiti Putra Malaysia, Malaysia

Main supervisor for 3 PhD and 2 MSc students
Co-supervisor for 6 PhD and 2 MSc students
Supervisor for 3 Advanced Specialist Trainees in Endocrinology
Academic advisor for 2 PhD and 1 MSc students
Graduated 2 PhD and 2 MSc students as main supervisor
Graduated 4 PhD and 2 MSc students as co-supervisor

UNDERGRADUATE
TEACHING

Universiti Putra Malaysia, Malaysia

Academic advisor for 10 medical students
Teaching for Endocrinology Module I (SPP3531), Problem Based Learning (SPP3591), Early Clinical Experience (SPK3012), Community Follow-up (SPK3821), Clinipathological Conference (SPK3212), Introductory Medicine (SPP3211), Senior Medicine (SPK3212), Clinical Nutrition (DTK3200), Molecular Pharmacology (BMS 5021/6021), Critical Care I (NUR 3516)

COMMUNITY
INVOLVEMENT

Malaysian Health Aging Society, Malaysia
Committee Member, 2008-2009

MAS Medical Board, Malaysia

Member, 2007-2010

Overseas Christian Fellowship, Australia

North Melbourne Christian Fellowship, Australia

Adam Road Presbyterian Fellowship, Singapore

Trinity Methodist Church, Malaysia

Bible Study Leader, since 1991

Ikatan Kristian UPM, Malaysia

Student Advisor, since 2010

PEMANDU Assisted Living GTP Laboratory, Malaysia

Member, 2012

Various Conferences

Invited speaker for two international and ten local conferences

Chairman for two local conferences

Committee member for one international and three local conferences

ACHIEVEMENTS

Kuala Lumpur General Hospital, Malaysia

Consultant Physician and Endocrinologist, 2007-2010

Mortality reduction of 65% from baseline within 6 months of taking over NW18, an acute medical ward

Institute of Gerontology, Universiti Putra Malaysia, Malaysia

Deputy Director, Institute of Gerontology, 2010-2013

Head, Postgraduate unit, Institute of Gerontology, 2010-2013

Head, Research unit, Institute of Gerontology, 2012-2013

Increase in publication output and impact factor from 5-10 previously to more than 40 annually from 2010-2013

OTHER SKILLS

Language Proficiency

Very proficient in English

Able to speak and write in Bahasa Malaysia

Conversational Cantonese

Computer Skills

Very proficient in Visual Basic, .NET Framework, OpenCV, ASCOM programming

Able to program in Visual C#, C++

28 years practical experience as a programmer

Helped to computerise CMS Aviation, Singapore, 1993-1995

Helped to computerise Rorke Development Agency, Edinburgh, 1996-1997

Programmed Ultrasound Capture Module for TTSH Endocrine Clinic, 2002

Programmed Clinic Management Module for patient consultation, 2008-2009

Programmed Astrolight 2 astronomical image capture and processing software, 2014

Programmed Form Processing Application for scientific surveys, 2016