



## CURRICULUM VITAE

### A. BUTIR-BUTIR PERIBADI *(Personal Details)*

Nama Penuh <i>(Full Name)</i>	Subashini Chellappah Thambiah		Gelaran <i>(Title)</i> : Dr.
No. MyKad / No. Pasport <i>(Mykad No. / Passport No.)</i> 730723-10-5784	Warganegara <i>(Citizenship)</i> Malaysian	Bangsa <i>(Race)</i> India	Jantina <i>(Gender)</i> Female
Jawatan <i>(Designation)</i>	Associate Professor & Consultant Chemical Pathologist (Metabolic Medicine)	Tarikh Lahir <i>(Date of Birth)</i>	23.07.1973

Alamat Semasa <i>(Current Address)</i>	Jabatan/Fakulti <i>(Department/Faculty)</i>	E-mel dan URL <i>(E-mail Address and URL)</i>
Department of Pathology, Faculty of Medicine & Health Sciences, UPM Serdang, 43400, Selangor Darul Ehsan.  Tel: 03-89472779	Department of Pathology, Faculty of Medicine & Health Sciences, UPM  Tel: 03-89472779 Fax: 03-89412787	E-mail: subashini@upm.edu.my umeshuba@yahoo.com  URL:  H/P: 0123923709

### B. KELAYAKAN AKADEMIK *(Academic Qualification)*

Nama Sijil / Kelayakan <i>(Certificate / Qualification obtained)</i>	Nama Sekolah Institusi <i>(Name of School / Institution)</i>	Tahun <i>(Year obtained)</i>	Bidang pengkhususan <i>(Area of Specialization)</i>
Bachelor of Medicine and Bachelor of Surgery	The University of Western Australia, Australia	1999	Undergraduate qualification
Master of Pathology	Universiti Kebangsaan Malaysia	2009	Chemical Pathology
Fellowship in Metabolic Medicine	Department of Chemical Pathology, Guys' and St. Thomas' Hospital, London, UK.	2011	Lipid and Metabolic Bone Disorders

### C. KEMAHIRAN BAHASA *(Language Proficiency)*

Bahasa / Language	Lemah <i>Poor (1)</i>	Sederhana <i>Moderate (2)</i>	Baik <i>Good (3)</i>	Amat Baik <i>Very good (4)</i>	Cemerlang <i>Excellent (5)</i>
English				/	
Bahasa Melayu			/		
Lain-lain <i>(other)</i> : Tamil		/			

<b>D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN</b> <i>(Scientific experience and Specialisation)</i>				
<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>
Malaysian Association of Clinical Biochemists	Member	28/07/2009	To date	Chemical Pathology
Asian-Pacific Society of Atherosclerosis and Vascular Disease	Honorary Member	2012	2019	Chemical Pathology (Lipid Disorders)
National Specialist Register	Specialist	29/09/2013	To date	Chemical Pathology (Metabolic Medicine)
College of Pathologist (Academy of Medicine)	Member	13/07/2014	To date	Chemical Pathology
Malaysian Osteoporosis Society	Member	10/10/2014	To date	Chemical Pathology (Metabolic Bone Disorders)
National Heart Association of Malaysia	Ordinary Member	15/12/2014	To date	Chemical Pathology (Lipid Disorders)
Malaysian Society of Atherosclerosis	Member	15/12/2014	To date	Chemical Pathology (Lipid Disorders)
Standards Malaysia	Assessor	April 2016	To date	SAMM Accreditation Process & Assessment for MS ISO 15189

<b>E. PEKERJAAN</b> <i>(Employment)</i>				
<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>
Ministry of Health (MOH)	Houseman/Intern	Medical, Surgical and O&G Departments in Hospital Kuala Lumpur	01/09/1999	31/08/2000
MOH	Medical Officer	ENT Department, Hospital Putrajaya	01/09/2000	19/07/2002
MOH	Medical Officer (Secretariat)	Malaysian Medical Council	19/07/2002	17/12/2004
Ministry of Education (MOE)	Trainee Medical Lecturer DU45	Pathology Department, Universiti Putra Malaysia (UPM)	17/12/2004	31/05/2009
MOE	Senior Medical Lecturer DU54 & Chemical Pathologist	Pathology Department, UPM	01/06/2009	31/10/2017
MOE	Associate Professor DU54 & Consultant Chemical Pathologist (Metabolic Medicine)	Pathology Department, UPM, Hospital Serdang	01/11/2017	To date
Clinipath (M) Sdn Bhd	Visiting Consultant Chemical Pathologist	Clinipath labs at Klang, Bangsar, CVS KL	2016	To date

F. ANUGERAH DAN HADIAH (Honours and Awards)				
Name of awards	Title	Award Authority	Award Type	Year
Non-Academic Awards	Excellent Service Award	Ministry of Health (MOH)	Service	2004 (award)
Non-Academic Awards	Excellent Service Award	Universiti Putra Malaysia (UPM)	Service	2013 (award) 2012, 2014, 2015, 2016 (certificate) 2017 (award)
Academic Awards	'Best 10 Clinical Researcher' Award	Universiti Putra Malaysia (UPM)	Research	2014
Academic Awards	Best Presenter (Public Health)	NHAM-CRM RESEARCH TRACK 2018 "Cardiovascular Innovations in Malaysia"	Research	2018

G. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) (List of publications – author (s), title, journal, volume, page and year published)	
Journal	<p><b>Subashini CT</b>, Khalidah Mazlan Bador, Nor Aini Umar. A rare cause of hypokalaemia. Malaysian Journal of Clinical Biochemistry. 2010. 5(1): 55-58.</p> <p><b>Thambiah SC</b>, Abu-Bakar M, Bador K, Das S, Umar NA. An interesting case of Multiple Endocrine Neoplasia Type 2A. La Clinica Therapeutica. 2010. 161(4): 349-354.</p> <p><b>C. T. Subashini</b>, E. George, U Nor Aini. Monoclonal Gammopathy with Systemic Amyloidosis: An Evaluation of Diagnostic Elements. Malaysian Journal of Medicine and Health Sciences. 2011. 7 (1): 51 – 56.</p> <p><b>S. Thambiah</b>, R. Roplekar, P. Manghat, I. Fogelman, W. D. Fraser, D. Goldsmith, Geeta Hampson. Circulating Sclerostin and Dickkopf-1 (DKK1) in Predialysis Chronic Kidney Disease (CKD): Relationship with Bone Density and Arterial Stiffness. Calcified Tissue International. 2012. 90:473–480 (published online 21/04/2012 - DOI 10.1007/s00223-012-9595-4).</p> <p>Intan Nureslyna Samsudin, <b>Subashini C. Thambiah</b> and Zalinah Ahmad. An Anxious Primigravid. Problem Based Learning: Cases for Medical Students. July 2012. 4(1): 1 – 22.</p> <p><b>Subashini C. Thambiah</b>, Zalinah Ahmad, Sabariah Md. Nor. A Pale and Irritable Neonate. Problem Based Learning: Cases for Medical Students. Dec 2012. 4(2): 97 – 118.</p> <p><b>S. Thambiah</b>, E. George, U Nor Aini, J. Sathar, H. Zarida &amp; Mokhtar AB. Serum Soluble Transferrin Receptor Concentration as a Biomarker of Erythropoietic Activity: Surrogate Marker of Adequate Transfusion in Adult Beta-Thalassaemia Intermedia Patients. Malaysian Journal of Medicine and Health Sciences. June 2013. 9(3): 3 – 12.</p> <p>Intan NS, <b>S Thambiah</b>, Hannah P, NorBaizurah B, Baizurah MH. Performance characteristics of anti-TPO and anti-TG Assays on Roche Cobas E411</p>

Immunoassay System. International Journal of Public Health and Clinical Sciences. 2014. 1(2):51-57.

Intan Nureslyna Samsudin, Rafidah Md Saleh, **Subashini C. Thambiah**, Aiffa Syafira Mohamad Amir Hamzah, Wan Noor Fatini Wan Khalik, Elizabeth George. Prevalence of Dyslipidaemia in Type 2 Diabetes Mellitus Patients and Its Association to Diabetic Retinopathy in a Malaysian Tertiary Hospital. Malaysian Journal of Medical and Health Sciences. June 2014. 10 (2): 47-51.

**Subashini Chellappah Thambiah**, Intan Nureslyna Samsudin, Elizabeth George, Lydiar Kaur Ranjit, Nur Syakila Saat, Zanariah Hussein, Nurain Mohd Noor, Masni Mohamad. Anaemia In Type 2 Diabetes Mellitus (T2DM) Patients In Hospital Putrajaya. Malaysian Journal of Medicine and Health Sciences. January 2015. 11(1): 49-62.

**Subashini Chellappah Thambiah**, Zalinah Ahmad, Zarida Hambali, Malina Osman, Munira Mohd Zain, Fuziah Md Zain, Janet Hong Yeow Hua. Clinical Presentation of Congenital Adrenal Hyperplasia in Selected Multiethnic Paediatric Population. Malaysian Journal of Medicine and Health Sciences. January 2015. 11(1): 77-83.

Intan NS, **Thambiah S**, MA Asyraf, Ng WC, Zanariah H, Nurain MN, Masni M, George E. Awareness of glycosylated haemoglobin (HbA1c) among type 2 diabetic patients in a tertiary centre in Malaysia. Malaysian Journal of Medicine and Health Sciences. June 2015. 11(2): 1-8, 2015.

Intan Nureslyna Samsudin, Ilyas Syafiq Darul Ridzuan, **Subashini C. Thambiah**, Shariful Hasan. Utility of copeptin in acute myocardial infarction. International Journal of Public Health and Clinical Sciences 2015. 2(3):1-7 2015.

**Subashini C. Thambiah**, Intan Nureslyna Samsudin, Elizabeth George, Siti Yazmin Zahari Sham, Huey Ming Lee, Mohd Azril Muhamad, Zanariah Hussein, Nurain Mod Noor, Masni Mohamad. Relationship between dyslipidaemia and glycaemic status in patients with type 2 diabetes mellitus. The Malaysian Journal of Pathology 2016. 38(2):123-130.

**Subashini Chellappah Thambiah**, Intan Nureslyna Samsudin, Elizabeth George, Lee Hoong Hong, Ling Ling Chuo, Nabilah Ramli, Muhd Zanapiah Zakaria. Pre-transplantation serum ferritin as a prognostic marker in allogenic haemopoietic stem cell transplant patients in tertiary care hospital in Malaysia. The National Medical Journal of India. 2016 29(3):136-140

Siti Yazmin Zahari Sham, **Subashini Chellappah Thambiah**, Intan Nureslyna Samsudin, Ng Ooi Choon, Yong Shao Wei, Nur Izzati Razmin. Practice of self-monitoring blood glucose among insulin-treated diabetic patients in Hospital Serdang. Malaysian Journal of Medicine and Health Sciences 2016 12(2):38-43.

Nasrin Riyahi, Eusni Rahayu Mohd Tohit, **Subashini C Thambiah**, Zuriati Ibrahim. Platelet-related cytokines among normal body mass index, overweight,

and obese Malaysians. *Asia Pacific Journal of Clinical Nutrition*. doi: 10.6133/apjcn.032017.01 Published online: March 2017.

Meor Fairuz Rizal Meor Anuar Shuhaili, Intan Nureslyna Samsudin, Johnson Stanslas, Shariful Hasan, **Subashini C. Thambiah**. Effects of Different Types of Statins on Lipid Profile: A Perspective on Asians. *International Journal of Endocrinology and Metabolism*, 2017. 15(2):e43319. Published online 2017 April 22: doi: 10.5812/ijem.43319.

Swan Sim Yeap, M.F.R. Nur Fazirah, C. Nur Aisyah, Siti Yazmin Zahari Sham, Intan Nureslyna Samsudin, **Subashini C. Thambiah**, Fen Lee Hew, Boon Ping Lim, Yew Siong Siow, Siew Pheng Chan. Trends in post osteoporotic hip fracture care from 2010 to 2014 in a private hospital in Malaysia. *Osteoporosis and Sarcopenia*. 2017. 3(2): 112-116. Available online 3 June 2017: <http://dx.doi.org/10.1016/j.afos.2017.05.001>

Siti Yazmin Zahari Sham, **Subashini C. Thambiah**, Intan Nureslyna Samsudin. A Brief Review on Free Light Chain Assays: From Conventional to Current. *Malaysian Journal of Medicine and Health Sciences*. 2017. 13(2): 59-62.

Lim Say Min, **Subashini C Thambiah**, Siti Yazmin Zahari Sham, Roslina Omar, Zarida Hambali, Intan Nureslyna Samsudin. Determination of the 99th Percentile Upper Reference Limit for High-Sensitivity Cardiac Troponin I in Malaysian Population. *The Malaysian Journal of Pathology*. 2017. 39(2): 135 – 140.

Siti Yazmin Zahari Sham, **Subashini C. Thambiah**, Intan Nureslyna Samsudin Lim Say Min. Light Chain Myeloma: An Evaluation Of Its Biochemical Diagnostic Tests. *The Malaysian Journal of Pathology*. 2017. 39(3): 311 – 315.

Meor Fairuz Rizal Meor Anuar Shuhaili, Chew Boon How, Intan Nureslyna Samsudin, Hejar Abdul Rahman, Johnson Stanslas, Shariful Hasan, Zalinah Ahmad, **Subashini C. Thambiah**. Biochemical effects of statins on lipid parameters among newly diagnosed dyslipidaemia subjects in primary care. *Malaysian Journal of Medicine and Health Sciences*. 2018. 14(1): 7 – 14.

Nur Syabeela Mat Akhir, Vigneswari Thirunavukkarasu, **Subashini C. Thambiah**, Intan Nureslyna Samsudin, Siti Yazmin Zahari Sham, Prasana Balan, Fen Lee Hew, Siew Pheng, Swan Sim Yeap. An Audit Of Treatment Following A Low Trauma Wrist Fracture Presenting To The Accident And Emergency Department At A Private Hospital In Malaysia From 2011 To 2015. *Clinical Cases in mineral and bone metabolism*. *Accepted*.

Intan Nureslyna Samsudin, **Subashini C. Thambiah**, Siti Yazmin Zahari Sham, Ng Ooi Chuan, Muhammad 'Arif Mohd Najib, Siti Hawa Zalikha Jaapar. Prevalence of Proteinuria and Low eGFR in Type 2 Diabetes Patients Attending Diabetic Clinic of Hospital Serdang. *The Malaysian Journal of Pathology*. 2018. *Submitted*.

	<p><b>S C Thambiah</b>, T H Wong, E Das Gupta, A K Radhakrishnan, S C Gun, G Chembalingam, L C Lai, S S Yeap. Calculation of Free and Bioavailable Vitamin D and Its Association with Bone Mineral Density in Malaysian Women. The Malaysian Journal of Pathology. 2018. <i>Submitted</i>.</p> <p>Meor Fairuz Rizal Meor Anuar Shuhaili, Chew Boon How, Intan Nureslyna Samsudin, Hejar Abdul Rahman, Johnson Stanslas, Shariful Hasan, Zalinah Ahmad, <b>Subashini C. Thambiah</b>. Association between Polymorphism of <i>SLCO1B1</i> (RS4363657) Gene and Statin-Induced Muscle Pain. Biomarkers. 2018. <i>Writing in progress</i>.</p> <p><b>Subashini C. Thambiah</b>, Intan Nureslyna Samsudin, Siti Yazmin Zahari Sham, Ng Ooi Choon, Nor Shaibah Ramley, Nur Syazwani Ghazali, Prevalence of Abnormal Liver Enzymes and Its Associated Factors Among Patients with Type 2 Diabetes Mellitus in Hospital Serdang. <i>Writing in progress</i>.</p>
Books/Monographs	<p>Zarida Hambali, Intan Nureslyna Samsudin, <b>Subashini C. Thambiah</b>. Revitalise your knowledge thru' CLINICAL DATA INTERPRETATION. Universiti Putra Malaysia Press. 2013. (ISBN: 978-967-344-380-2)</p> <p>Chief Editors: Ainoon Othman, Cheong Soon Keng, Leong Chooi Fun. Editors: Arni Talib, Eusni Rahayu Mohd Tohit, Siew Sheu Feng, <b>Subashini C. Thambiah</b>, Zetti Zainol Rashid. Pathology In Malaysia: Celebrating 40 Years Of Advocacy. The College of Pathologists, Academy of Medicine of Malaysia. 2015 (ISBN: 978-967-13857-0-8).</p>
Chapter in book	<p>Problem Based Learning Facilitator Guidebook on 'Abdominal Colic Post Meal' for MD Programme Year 1 (UPM).</p> <p>Problem Based Learning Facilitator Guidebook on 'Acute Intermittent Limb Weakness' for MD Programme Year 1 (UPM).</p> <p>Problem Based Learning Facilitator Guidebook on 'Chest Pain' for MD Programme Year 1 (UPM).</p> <p>Problem Based Learning Facilitator Guidebook on 'HI Glucose' for MD Programme Year 2 (UPM).</p> <p>Problem Based Learning Facilitator Guidebook on 'Acute Back Pain in a Middle-Aged Female' for MD Programme Year 2 (UPM).</p> <p>Problem Based Learning Facilitator Guidebook on 'A Sweaty Young Man' for MD Programme Year 2 (UPM).</p> <p>Chapters 8: External Quality Assurance Program (EQAP) in Essential Practises in Pathology Laboratories, Editors Maha Abdullah, Norhafizah Mohtaruddin 2016. (ISBN 978-967-344-591-2).</p>

**Subashini CT**, Nor Aini U, Bador KM. Abstract publication: A Rare Cause of Hypokalaemia. *Medicine & Health The Official Journal of the Faculty of Medicine UKM*. 2008. 3(1) (Supplement): 175.

O Hanita, AH Hanisah, **CT Subashini**, M Musilawati, MY Norashikin. The Performance Evaluation of Tina-Quant Roche Cobas 6000 in the Measurement of HbA1c. *The Journal of the Royal College of Pathologists of Australasia: Pathology Update 2009 in conjunction with XXV WASPaLM World Congress Abstract Publication*. 41 (Supplement): 69.

**Subashini CT**, Baizurah MH, Intan NS, Hannah P, NorBaizurah B. The 9<sup>th</sup> Annual Scientific Meeting of the College of Pathologists, Academy of Medicine Malaysia was held at the Faculty of Medicine & Health Sciences, Universiti Putra Malaysia, Serdang, Selangor from 26-27 June 2010. Abstracts of scientific presentations follow: Poster presentations: Evaluation of Anti-TG assay on Roche Cobas e411 Immunoassay System. *The Malaysian Journal of Pathology 2010*. 32(2): 153 – 154.

Intan NS, Baizurah MH, **Subashini CT**, Hannah P, NorBaizurah B. The 9<sup>th</sup> Annual Scientific Meeting of the College of Pathologists, Academy of Medicine Malaysia was held at the Faculty of Medicine & Health Sciences, Universiti Putra Malaysia, Serdang, Selangor from 26-27 June 2010. Abstracts of scientific presentations follow: Poster presentations: Evaluation of Anti-TPO assay on Roche Cobas e411 Immunoassay System. *The Malaysian Journal of Pathology 2010*. 32(2): 153.

Intan NS, **Thambiah S**, MA Asyraf, Ng WC, Zanariah H, Nurain MN, Masni M, George E. 2014 International Congress of Pathology & Laboratory Medicine (ICPaLM) & 48<sup>th</sup> Malaysia-Singapore Congress of Medicine was held at Shangri-La Hotel, Kuala Lumpur from 26-28 August 2014. Abstracts of scientific presentations follow: Poster presentations: Assessing HbA1c knowledge among type 2 diabetic patients in Hospital Putrajaya. *The Malaysian Journal of Pathology 2014*. 36(Supplement A): 93.

**Thambiah S**, Intan Nureslyna Samsudin, George E, Lee HM, Mohd Azril Muhamad, Zanariah Hussein, Nurain Mohd Noor, Masni Mohamad. 2014 International Congress of Pathology & Laboratory Medicine (ICPaLM) & 48<sup>th</sup> Malaysia-Singapore Congress of Medicine was held at Shangri-La Hotel, Kuala Lumpur from 26-28 August 2014. Abstracts of scientific presentations follow: Poster presentations: Association between Glycaemic Control and Dyslipidaemia in Type 2 Diabetic Patients in Hospital Putrajaya. *The Malaysian Journal of Pathology 2014*. 36(Supplement A): 94-95.

**Subashini C. Thambiah**, Elizabeth George, Intan Nureslyna Samsudin, Lee Hoong Hong, Ling Ling Chuo, Nabilah Ramli, Muhd Zanapiah Zakaria. The 2015 Annual Scientific Meeting of the College of Pathologists, Academy of Medicine Malaysia & 40<sup>th</sup> Anniversary Celebration of the Pathology Advocates was held at Berjaya Times Square Hotel, Kuala Lumpur from 13 – 14 June 2015. Abstracts of scientific presentations follow: Poster presentations: Pre-

	<p>Transplantation Serum Ferritin Level in Allogenic Stem Cell Transplant Patients in Hospital Ampang. The Malaysian Journal of Pathology 2015. 37(2):191-192.</p> <p>Intan Nureslyna Samsudin, Say Min Lim, <b>Subashini C. Thambiah</b>. The 2015 Annual Scientific Meeting of the College of Pathologists, Academy of Medicine Malaysia &amp; 40<sup>th</sup> Anniversary Celebration of the Pathology Advocates was held at Berjaya Times Square Hotel, Kuala Lumpur from 13 – 14 June 2015. Abstracts of scientific presentations follow: Poster presentations: Adrenal incidentaloma with primary tuberculosis. The Malaysian Journal of Pathology 2015. 37(2):192.</p> <p>MA Nur Syabeela, V Thirunavukkarasu, <b>S Thambiah</b>, S Intan Nureslyna, ZS Yazmin, P Balan, FL Hew, SP Chan, SS Yeap. WCO-IOF-ESCEO congress (World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases), at the <i>Fortezza da Basso</i> in Florence, Italy from 23 –26 March 2017. Abstracts of scientific presentations follow: Poster presentations: An Audit of Treatment following a Low Trauma Wrist Fracture presenting to the Accident and Emergency Department at a Private Hospital in Malaysia from 2011 – 2015. Osteoporosis International. 2017. 28 (Suppl 1):S135. DOI 10.1007/s00198-017-3950-2.</p> <p>MFR Nur Fazirah, C Nur Aisyah, ZS Yazmin, S Intan Nureslyna, <b>S Thambiah</b>, FL Hew, SP Chan, BP Lim, YS Siow, SS Yeap. WCO-IOF-ESCEO congress (World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases), at the <i>Fortezza da Basso</i> in Florence, Italy from 23 –26 March 2017. Abstracts of scientific presentations follow: Poster presentations: Trends in Post-Osteoporotic Hip Fracture Care from 2010 – 2014 in a Private Hospital in Malaysia. Osteoporosis International. 2017. 28 (Suppl 1):S155. DOI 10.1007/s00198-017-3950-2.</p> <p>S S Yeap, <b>S C Thambiah</b>, I N Samsudin, S Y Zahari-Sham, N Zainuddin, S Mohamad-Ismuddin, N Shahifar, S Md-Said, K Feiza, H K Lim, L F Lee, J Lim, F L Hew. 5<sup>th</sup> Scientific Meeting of the Asian Federation of Osteoporosis Societies (AFOS) 2017 at Hilton KL from 6 – 8 October 2017. Vitamin D, Body Fat and Their Associations in a Healthy Malaysian Population. Osteoporosis and Sarcopenia. 2017. 3(3) Supplement: S35.</p> <p><b>S C Thambiah</b>, T H Wong, E Das Gupta, A K Radhakrishnan, S C Gun, G Chembalingam, S S Yeap. 5<sup>th</sup> Scientific Meeting of the Asian Federation of Osteoporosis Societies (AFOS) 2017 at Hilton KL from 6 – 8 October 2017. Calculation Of Free And Bioavailable Vitamin D And Its Association With Bone Mineral Density In Malaysian Women. Osteoporosis and Sarcopenia. 2017. 3(3) Supplement: S41.</p>
<p><i>Other publications</i></p>	<p><i>Poster Presentations:</i></p> <p>‘A rare cause of hypokalaemia’ at the 4<sup>th</sup> Malaysian Indonesia Brunei Medical Science Conference (24/07/2008 – 26/07/2008).</p> <p>‘Evaluation of Anti-TG assay on Roche Cobas e411 Immunoassay System’ at</p>



the Annual Scientific Meeting, College of Pathologists, Academy of Medicine Malaysia (26/06/2010).

'The Prevalence of Cholesteryl Ester Transfer Protein Deficiency in Patients with Hyperalphalipoproteinaemia' at XVI International Symposium on Atherosclerosis ISA2012 (25/03/2012 – 29/03/2012).

'Association between Glycaemic Control and Dyslipidaemia in Type 2 Diabetic Patients in Hospital Putrajaya' at 2014 International Congress of Pathology & Laboratory Medicine (ICPaLM) & 48<sup>th</sup> Malaysia-Singapore Congress of Medicine (26/08/2014 – 28/08/2014).

'Pre-Transplantation Serum Ferritin Level in Allogenic Stem Cell Transplant Patients in Hospital Ampang' at the 2015 Annual Scientific Meeting of the College of Pathologists, Academy of Medicine Malaysia & 40<sup>th</sup> Anniversary Celebration of the Pathology Advocates (13/06/2015 – 14/06/2015).

'An Audit of Treatment following a Low Trauma Wrist Fracture presenting to the Accident and Emergency Department at a Private Hospital in Malaysia from 2011 – 2015' at WCO-IOF-ESCEO congress (World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases), at the *Fortezza da Basso* in Florence, Italy (23/03/17 – 26/03/17).

'Trends in Post-Osteoporotic Hip Fracture Care from 2010 – 2014 in a Private Hospital in Malaysia' at WCO-IOF-ESCEO congress (World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases), at the *Fortezza da Basso* in Florence, Italy (23/03/17 – 26/03/17).

'Vitamin D, Body Fat and Their Associations in a Healthy Malaysian Population' at 5<sup>th</sup> Scientific Meeting of the Asian Federation of Osteoporosis Societies (AFOS) 2017 at Hilton KL (06/10/17 – 08/10/17).

'Calculation Of Free And Bioavailable Vitamin D And Its Association With Bone Mineral Density In Malaysian Women' at 5<sup>th</sup> Scientific Meeting of the Asian Federation of Osteoporosis Societies (AFOS) 2017 at Hilton KL (06/10/17 – 08/10/17).

*Oral Presentations:*

'Bone markers in Bone Diseases' at the MEMS Annual Congress 2013 (MAC 2013), Pullman Putrajaya Lakeside Hotel, Putrajaya organised by Malaysian Endocrine & Metabolic Society (25/05/2013).

'Latest Update in Vitamin D Testing and Clinical Application' at CME Hospital Pantai, Ipoh, Perak, 19 Sept 2013 organised by Siemens Malaysia Sdn Bhd Healthcare Diagnostics (19/09/2013).

'Approach to the Interpretation of Endocrine Tests' at MACB Endocrinology Workshop, Hotel Putra organised by Malaysian Association of Clinical Biochemists (07/10/2013).

	<p>'Diabetes, Hormones &amp; Metabolism (Endocrinology)' at AMSA Diabetes Day 2013, FMHS, UPM organised by AMSA UPM (03/11/2013).</p> <p>Represent NHAM for APSAVD 2018 bid presentation at the 9th Congress of the Asian Pacific Society of Atherosclerosis &amp; Vascular Disease (9th APSAVD) at Hong Kong Convention and Exhibition Centre (25/09/14 – 28/09/14).</p> <p>'The Role of Chemical Pathology Laboratory in Metabolic Bone Disorders' at the 26<sup>th</sup> National Scientific Conference of the Malaysian Institute of Medical Laboratory Sciences (MIMLS) at Swiss-Garden Hotel &amp; Residences, Kuala Lumpur (12/08/2015).</p> <p>'HbA1c analysis and analytical limitations &amp; Data interpretation' at MEMS-MOH Endocrine Intensive Course, Putrajaya (07/08/17 - 08/08/17).</p> <p>'Cardiovascular Risk Assessment Beyond LDL Cholesterol' at National Pathology Conference 2017, Zenith Hotel, Kuantan (15/08/2017).</p> <p>'Biomarkers of Osteoporosis' at 1<sup>st</sup> Osteoporosis Update Workshop, Hospital Putrajaya (1/11/17).</p> <p>'Determination of Pattern B Lipoprotein Profile and Its Associated Factors among Subjects attending the Health Screening at Faculty of Medicine and Health Sciences, Universiti Putra Malaysia (FMHS, UPM)' at NHAM-CRM RESEARCH TRACK 2018 "<i>Cardiovascular Innovations In Malaysia</i>", Le Meridien Kuala Lumpur Sentral (14/04/18).</p> <p><i>Others:</i>          CLINIPATH Newsletter July 2016: Volume 5: Protein Electrophoresis.          CLINIPATH Newsletter April 2017: Volume 8: 'Adjusted' Calcium.          CLINIPATH Newsletter July 2017: Volume 9: Cholinesterase.          CLINIPATH Newsletter Oct 2017: Volume 10: Albumin Measurement in Serum.          CLINIPATH Newsletter May 2018: Volume 13: Biotin Interference in Thyroid Function Tests.</p>
Computer software	NA

<b>H. PROJEK PENYELIDIKAN TERDAHULU</b> ( <i>Past Research Project</i> )					
<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
FF-020-2007	Serum soluble transferrin receptor concentration in monitoring iron status in Beta-Thalassaemia Intermedia patients in Ampang Hospital	Principle Researcher	01/06/2006 – 31/12/2008	Dana Penyelidikan HUKM	Completed

-	The Performance Evaluation of Tina-Quant Roche Cobas 6000 in the measurement of HbA1c.	Co - researcher	07/2007 – 09/2007	Roche Diagnostics	Completed
-	Evaluation of Anti-TG and Anti-TPO on Roche Cobas e411 Immunoassay System.	Co - researcher	11/2009 – 01/2010	Roche Diagnostics	Completed
04-03-10-0986RU/5	Biochemical and Genetic Study of Congenital Adrenal Hyperplasia in Malaysia.	Principle Researcher	07/2010 – 05/2013	RUGS	Completed
05-01-11-1220RU	Clinical Utility of Copeptin in Acute Myocardial Infarction.	Co - researcher	04/2011 – 02/2014	RUGS	Completed
-	Circulating sclerostin and Dickkopf-1 (DKK1) in pre-dialysis chronic kidney disease (CKD): relationship with bone density and arterial stiffness.	Co - researcher	03/2011 – 09/2011	UK grant: at Department of Chemical Pathology, St. Thomas' Hospital, London, UK during subspecialty	Completed
-	The Prevalence of Cholesterol Ester Transfer Protein Deficiency in Patients with Hyperalphalipoproteinemia.	Principle Researcher			
-	Pre-Transplantation Serum Ferritin Level in Allogenic Stem Cell Transplant Patients in Hospital Ampang.	Principle Researcher	04/2012 – 07/2012	-	Completed
04-02-12-1814RU	A Pilot Study to determine Biochemical and Genetic Markers associated with Statin Induced Muscle Toxicity in Selected Malaysian Population.	Principle Researcher	11/2012 - 12/2015	RUGS & Geran Penyelidikan Siswazah UPM	Completed
-	Association between Glycaemic Control and Dyslipidaemia in Type 2 Diabetic Patients in Hospital Putrajaya.	Principle Researcher	04/2013 – 08/2013	-	Completed
-	Awareness of Glycosylated Haemoglobin (Hba1c) among Type 2 Diabetic Patients in Hospital Putrajaya.	Co-researcher			
-	Anaemia in Type 2 Diabetes Mellitus Patients in Hospital Putrajaya.	Principle Researcher	04/2014 – 08/2014	-	Completed
-	Dyslipidemia among Type 2 Diabetes Mellitus Patients with Diabetic Retinopathy in Hospital Serdang.	Co-researcher			
-	Platelets and Related Biomarkers among Obese Malaysian Population.	Co-researcher	09/2014 – 09/2015	IPS	Completed

-	Effect of <i>Andrographis paniculata</i> in preventing the systemic inflammation, metabolic dysfunction and atherosclerosis induced by cholesterol-enriched high-fat diet in animal models.	Co-researcher	01/2015 – 12/2016	NRGS NKEA EPP	Completed
	Prevalence of Abnormal Liver Enzymes and Its Associated Factors among Patients with Type 2 Diabetes Mellitus in Hospital Serdang.	Principle Researcher	4/2015 – 08/2015	-	Completed
	The Association of Body Mass Index, Waist Circumference, Body Fat Percentage with Blood Pressure Among Form 23 Malay Students in SMK Putrajaya Presint 14(1) in 2015.	Co-researcher			
FRGS/1/2015/SKK03/UPM/02/1	Studying vertebral fracture in osteoporosis to customise a WHO fracture risk assessment tool and identify a dietary pattern associated with bone health	Principle Researcher	1.11.15	FRGS	Ongoing
GP-IPM/2015/9463200	Establishing a 3-h accelerated diagnostic protocol to assess 60-day outcomes in Emergency Department patients with possible non-ST elevation myocardial infarction	Co-researcher	1.12.15	Geran Putra	Completed
-	Osteoporosis Treatment and Follow Up Plan of Patients Presenting with Low Trauma Wrist Fracture to Accident and Emergency Department, Subang Jaya Medical Centre from 2011 to 2015.	Principle Researcher	04/2016 – 08/2016	-	Completed
GP-IPS/2015/9454600	Determination of 99 <sup>th</sup> percentile of hsTroponin in Malaysian population	Co-Researcher	2016	Geran Putra	Completed
GP-IPS/2016/9492400	Determination of Pattern B Lipoprotein Profile Among Staff and Students of Universiti Putra Malaysia (UPM) attending Health Screening at Faculty of Medicine and Health Sciences, Universiti Putra Malaysia (FMHS, UPM)	Principle Researcher	2016	Geran Putra	Completed

GP-IPS/2016/9510700	Diagnostic accuracy study of plasma sphingosine-1-phosphate (S1P) as a novel marker of osteoporosis and vertebral fracture	Co-Researcher	2016	Geran Putra	Ongoing
	Studying Vitamin D Status and Its Relation to Bone Health Measured by Bone Mineral Density, Trabecular Bone Microarchitecture and Bone Turnover Markers.	Co-Researcher	2016	-	Ongoing
	Studying the Association between Bone Characteristics and Risk Factors of Cardiovascular Disease	Principle Researcher	2016	-	Ongoing
	Derivation and Internal Validation of an Equation for Albumin-Adjusted Calcium in Normal Population at Hospital Tengku Ampuan Rahimah, Klang	Principle Researcher	2016	-	Completed
	Food Insecurity and Its Relationship with Cardio-Metabolic Outcomes in Elderly.	Co-Researcher	2016	-	Ongoing
	Immunomodulatory Activity of Standardised Ethanol Extract of <i>Moringa Oleifera</i> Leaves: Effect on Proliferation of T and B Lymphocytes in Vitro.	Co-Researcher	2016	2017	Completed
	Single Anastomosis Duodeno Jejunal Bypass Sleeve Gastrectomy (SADJB-SG) versus Intensive Medical Therapy (IMT) in the Treatment of Type 2 Diabetes Mellitus among Asian Patients with BMI 23.5 – 30 kg/m <sup>2</sup> : A Clinical Trial.	Co-Researcher	2016	-	Ongoing
GP-IPS/2017/9520500	Frequencies of Low Density Lipoprotein (LDL) Subfractions and Phenotypes and It's Association with Risk Factors of Cardiovascular Disease among Subjects attending Health Screening at Faculty of Medicine and Health Sciences, Universiti Putra Malaysia (FMHS, UPM).	Principle Researcher	2017	Geran Putra	Ongoing

	Ethnic variation in the relationship between fasting plasma glucose and HbA1c: a cross-sectional retrospective analysis in Hospital Kuala Lumpur from 2015 to 2017.	Principle Researcher	2017	-	Ongoing
	Association between serum ferritin level and liver enzymes, platelet and haematocrit among severe dengue patients in Hospital Kuala Lumpur.	Principle Researcher	2017	-	Ongoing
	The relationship between serum magnesium and type 2 diabetes mellitus among adult patients in Hospital Melaka.	Principle Researcher	2017	-	Ongoing
	Prevalence of type 2 diabetes mellitus patients with abnormal RBC indices in HbA1c samples measured in chemical pathology laboratory Hospital Kuala Lumpur.	Co-Researcher	2017	-	Ongoing
	The Effect of Prolonged Storage at -20°C And -80°C on Hba1c Measurements in Whole Blood Samples Analysed using Bio-Rad D-10 in Hospital Tengku Ampuan Afzan, Kuantan.	Co-Researcher	2017	-	Ongoing
	Determination of Salivary Cortisol Reference Ranges in Malaysian population using Automated Electrochemiluminescence Immunoassay (ECLIA) by Cobas e801 analyser.	Co-Researcher	2017	-	Ongoing