

COURSE SYNOPSIS

Faculty of Medicine and Health Sciences

DOCTOR OF MEDICINE

BPKP CODE

HM00

PROGRAMME OFFERED

Doctor of Medicine

MT10104 PERSONAL AND PROFESSIONAL DEVELOPMENT

This course aims to teach the student about medical developments generally as well as those specific to Malaysia. Students will be exposed to the Medical Act and Ethics in the medical profession. They will be trained to acquire the skills and characteristics of a good doctor and develop proper ethical relationships between the doctor and his/her patient. This course will emphasize proper methods of communication with patients as well as the medical service professionals, adopt appropriate counselling procedures and install in them the need to pursue continuous medical education. They also need to understand the significance of systematic self-study and working in small groups, as well as manage time effectively and cope with stress, develop good communication skills and diplomacy. They also learn to acquire knowledge through e-learning. For understanding the community and the patient more effectively, they hold discussions on cultural issues, sensitivities and ethnic medicine. They are first introduced to the medical discipline and the patient through mastery of medical terminology and interaction with the patient and the community, understanding the role of sickness and acquisition of skill in handling medical equipment.

References

Fadem, B. (2008). Behavioral Science. 5th Edition. Lippincott Williams & Wilkins. Kalat, J.W. (2004). Introduction to Psychology. 7th Edition. Thomson/Wadsworth.
Milliken, M.E. (2004). Understanding Human Behavior: A Guide for Health Care Providers. 7th Edition. Cengage Learning. Nietzel, M.T., Bernstein, D.A., Kramer, G.P. & Milich, R. (2002). Introduction to clinical psychology. 6th. Edition. Prentice Hall, London.
Snyder, L. (2007). Complementary and Alternative Medicine: Ethics, the Patient, and the Physician. Springer. Medical Act 1971.
Wallace PM. & Goldstein JH. 1996. Introduction to Psychology. 4th Edition. McGraw-Hill Education (ISE Editions)

MT10204 EVIDENCE-BASED SCIENTIFIC ENQUIRY

This course teaches students the methodology of evidence-based scientific investigation, including how to read and assess health reports and articles in medical journals; the methods to validate a research proposal, using basic statistics and epidemiology, practice good research design, execute good research practice, analyzed data properly and interpret them appropriately. The student will be taught methods for analyzing data, using SPSS. The application of these research techniques for the investigation of disease will be demonstrated.

References

Leon Gordis. Epidemiology. 2004 London: WB Saunders, 3rd edition
John M. Last, A Dictionary of Epidemiology, 2000, Oxford University Press, USA; 4 edition
WHO, Health research methodology. A guide for training in research methods - 2001 Publisher WHO Regional Office for the Western Pacific, 2nd Ed
David L. Sackett, Sharon E. Straus, W. Scott Richardson, William Rosenberg, R. Brian Haynes, Evidence based Medicine: How to Practice and Teach EBM, 2000, Medical, Lippincott Williams & Wilkins T. D. V. Swinscow, Michael J. Campbell, Inc NetLibrary, NetLibrary, Inc, Statistics at Square One, 2002, BMJ Books, 10 edition
Ann Aschengrau, George R Seage III, Essentials of Epidemiology in Public Health, 2003, Jones & Bartlett Publishers, US edition
William J Ray, Methods toward a Science of Behaviour & Experience, 2006 Thomson Wadsworth, USA, 8th edition
Beaglehole R, Bonita R & Kjellstrom, T. 1993. Basic Epidemiology. 1st Edition. World Health Organisation.

MT10302 CONTINUOUS PROFESSIONAL DEVELOPMENT

Continuous Professional Development course is meant to inculcate a culture of lifelong learning with continuous updating of one's knowledge thereby increasing confidence and improving work-related skills. Lifelong learning and improving skills are at the core of what every clinician should strive for at all times. Gaining extra knowledge can help to do any job better and get on faster in one's career. Every doctor must keep his (his/ her) knowledge and skills up to date throughout his working life. In particular, he should take part regularly in educational activities which develop his competence and performance. Specifically CPD is:

For attainment and maintenance of respected and recognized qualifications & certification
For updating existing skills and knowledge
For new practical skills and knowledge that increase job satisfaction and performance
For improving confidence and motivation

References

Davis, DA, Davis, D, Barnes, BE, and Fox, RD. (2003). The Continuing Professional Development of Physicians: From Research to Practice, AMA Bookstore.
While, R, & Attwood, M. (2000). Professional Development: A Guide for General Practice. Blackwell Publishing.
Shone, A, and Parry, B. (2004). Successful Event Management: A Practical Handbook. 2nd Edition. Cengage Learning EMEA.
Farmer, JC. (2004). Fundamentals of Disaster Management: A Handbook for Medical Professionals. 2nd Edition. Society of Critical Care Medicine.

Busalacchi, SJ, Flock, SL, & Kleine, W. (2008). White Coat Wisdom: Extraordinary Doctors Talk About What They Do, How They Got There and Why Medicine Is So Much More Than a Job. White Coat Wisdom

MT10402 UNIVERSITY-FAMILY PARTNERSHIP WELLNESS PROGRAM (UFPCWP)

This program is a five year attachment of students to foster family in a rural area in Sabah. During this period students are engaged to a family as a basic unit in a community. The students will follow up the family and appreciate role of family in wellness of a society. Various aspect of family development is study throughout the program. Assessments are made through yearly reports and presentation of report at the end of the program.

MM10102 BASIC CLINICAL SKILLS AND FIRST AID

Competence in clinical skills is a major component of excellence in medical practice. This course aims to inculcate in the students from the first year, a sense of moral and intellectual integrity as well as practical skills necessary for their future careers. They are introduced to methods of developing good communication skills and practical skills e.g. assessment of pulse, Blood Pressure (BP), Body Mass Index (BMI), vision and basic examination of cardiorespiratory system (including Electro Cardiography (ECG) Basic first aid and life support training is given. In addition, a visit to local healthcare facilities allows them to be aware of the availability of these and also interact with health care providers.

References

Colquhoun MC, Handley AJ & Evans TR. 2004. ABC of Resuscitation. 4th Edition. Bmj Publishing Group.
Edwards J & Munro CRW. 1995. Macleod's Clinical Examination. 9th Edition. WB Saunders.
Swash M. 2002. Hutchinson's Clinical Methods. 21st Edition. WB Saunders.
Talley NJ & O'Connor S. 2001. Clinical Examination: A Systematic Guide to Physical Diagnosis. 4th Edition. Blackwell Science.
Pocket Reference for ECGs Made Easy. 3rd Edition. Aehlert.

MM10208 STRUCTURE, FUNCTION AND METABOLISM OF THE HUMAN BODY I

This course discusses the structure, function and metabolism of the normal human body. This includes studying gross anatomy and histology of the human body systems. It emphasizes the study of cell and its functional components, the body tissue and every organ system in the body. Function and metabolism of normal organ-system will be discussed, along with study of the relevant human Anatomical structures. Nutrient and drug metabolism as well as the maintenance of body biochemical homeostasis will be discussed. The musculoskeletal, cardiovascular, homeopathic and respiratory system is studied. Genetics and molecular biology will also be covered briefly.

References

Tortora G.J.B. Derickson 2006. *Principles of Anatomy & Physiology*. 11th edition. John Wiley & Sons.
2. Keith L. Moore, *Clinical oriented Anatomy*. 5th edition. Lippincott Williams Wilkins. 2006.
B. Young & J. Health, 4th edition, 2000. *Wheaters Functional Histology*. Churchill Livingstone. Guyton & Hall
2005. *Textbook of Medical Physiology*. 11th edition. WB Saunders.
Ganong WF. 2005. *Review of Medical Physiology*. USA 22nd edition:Lange Medical Books/McGraw-Hill.
C.M. Smith, A.D. Marks, M.A. Lieberman Marks". *Basic Medical Biochemistry: Clinical Approach*", 2nd edition, 2007. Pamela C. Champe, Richard A. Harvey". *Lippincott's Illustrated Review of Biochemistry*", 4th edition, Lippincott Williams Wilkins. 2008.

MM10308 STRUCTURE, FUNCTION AND METABOLISM OF THE HUMAN BODY II

This is a continuation of the previous course. The study of gastrointestinal, genitourinary, reproductive, endocrine and nervous system is emphasized in this course. The structure and function and of each of these organ-system is studied. It also includes the study of nutrient and metabolism as well as maintenance of homeostasis.

References

Tortora GJO & Dickson JWT (2006). Principles of Anatomy and Physiology, 11th edition. John Wiley & Sons.
Moore KL (2006). Clinically oriented Anatomy, 5th edition. Lippincott Williams & Wilkins.
Young B & Health J (2000). Wheaters Functional Histology, 4th edition. Churchill Livingstone. Guyton AC & Hall JE (2005). Textbook of Medical Physiology. 11th edition. WB Saunders.
Ganong WF (2005). Review of Medical Physiology. USA 22nd edition. Lange Medical Books/McGraw-Hill.
Smith C, Marks AD & Lieberman M (2007). Basic Medical Biochemistry: A Clinical Approach, 2nd Edition. Lippincott Williams & Wilkins.
Murray RK, Granner DK and Rodwell VW (2006) Harper's Illustrated Biochemistry, 27th Edition. Lange Medical Books/McGraw-Hill. Netter F – Atlas of Anatomy* Lippincott Williams

MM10402 BODY RESPONSE TO INJURY

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This course will discuss the body's response of trauma / injury. This includes inflammation from disease-causing agent, immune reactions and specific injuries. It will also discuss tissue repair, necrosis, the development of abnormal tissues (carcinoma) etc.

References

Robins SL, Cotran RS & Kumar V. 2004. Pathology Basis of Disease. 7th edition. Elsevier Saunders. Harsh Mohan. 2006. Textbook of Pathology. 5th edition. Jaypee publishers.
Thomson & Cotton RE. 2004. Lecture Note on Pathology. London. Blackwell Scientific Publication.
Braun, Carie A. Pathophysiology: Functional Alterations in Human Health. Philadelphia. Lippincott Williams & Williams. Paul Bass, Norman Carr & Clair du Baulay. 2004. Pathology: Master Medicine. Edinburg. Churchill Livingstone.

MM10506 AGENTS OF DISEASE

This course discusses the disease causing agents such as microorganisms (bacteria and viruses), parasites and disease risk factors. The characteristics of microorganisms discussed will include structure, pathogenesis, virulence and immunogenesis. Students will be trained in methods to identify the group of offending agent using visual inspection and proper practical. Use of physical agents such as temperature, and chemical substances (including antibiotics and drugs) will also be discussed.

References

Riott IM & Delves PJ. 2001. Roitt's Essential Immunology. 10th. Edition. Blackwell Scientific Publishers.
Beaver PC & Jung RC. 1995. Animal Agents and Vectors of Human disease. 5th. Edi. Philadelphia: Lea & Febiger. Eastwood M. 1997. Principles of Human Nutrition. 1st. Edi. London Chapman and Hall.
Jacqueline G. Black (2008), Microbiology 7th Edition, John Wiley & Sons (Asia) Pte. Ltd.
Brian Henderson, Micheal Wilson, Rod Mc Nab, Alistair J. Lax (2000), Cellular microbiology Bacteria Host Interactions in Health Disease, John Wiley and Sons Co.
Warren Levinson & Earnest Jawetz (2002), Review of Medical Microbiology & Immunology 7th Edition, Mc Graw-Hill Co., Inc.
Richard L. Sweet & Ronald S. Gibbs (2000), Infectious Diseases of the Female Genital Tract 4th Edition, Lippincott Williams & Wilkins Co.
Brooks GF, Butel JS & Morse SA. 2004. Jawetz, Melnick & Adelberg's Medical Microbiology. 23rd. McGraw-Hill/Appleton & Lange

MM20102 MEDICINE AND COMMUNITY

This course discuss about the disease patterns in Malaysia and the strategy taken by the government to barricade these disease issues. Student will be exposed to the health data especially morbidity and mortality data, methods on data standardization and data interpretation. Basic prevention concept will be discuss and use in the prevention of infectious and non-infectious disease methods. This includes promotion health activities, specific protections, early diagnostic, treatment and recovering for diseases or risk factors connected with nature, work and individual lifestyle.

References

James F. McKenzie, Robert R. Pinger, and Jerome E. Kotecki, *Introduction to Community Health* 2007, Jones & Bartlett Publishers, Inc.; 6th edition
Jeff Conant & Pam Fadem, *A Community Guide to Environmental Health*, 2008, Hesperian Publishing.
Sunderlal, *Textbook of Community Medicine (Preventive & Social Medicine)*, 2007 CBS Publishers & Distributors.
Ann Aschengrau, George R Seage III, *Essentials of Epidemiology in Public Health*, 2003, Jones & Bartlett Publishers, US edition.
Leon Gordis. *Epidemiology*. 2004 London: WB Saunders, 3rd edition
Jekel JF, Elmore JG & Katz DL. 1990. *Epidemiology, Biostatistics and preventive Medicine*. London: WB Saunders.
Lucas AO and Giles HM. 1990. *A new short textbook of preventive Medicine for the tropics*. 3rd. edi. London: Churchill Livingstone.
Cassens BJ. 1992 *Preventive medicine and public health*. William and Wilkins.
Burton LE, Smith HH & Nichols AW. *Public health and community medicine*. 3rd ed. William and Wilkins. Phoon Wo & Chen PCY. 1986. Textbook of community medicine in South-East Asia. John Wiley & Sons.

MM20205 INFECTION AND NUTRIENT DEFICIENCY

This course is to study diseases caused by microorganisms and nutrient deficiency. These diseases need to be notified to Ministry of Health Malaysia. Emphasize on the diseases that bring problems to public health. Nutrient deficiency diseases such a lack of protein energy, lacking micronutrient will be discussed. These discussions will cover organ/tissue that involved pathogenesis, diagnosis, laboratory research and treatment. Prevention of clinical disorder will also be discussed.

References

- Edward CRW, Bouchier IAD, Haslett C & Chilvers ER. 1995. *Davidson's principles and practice of medicine*. 17th Edition. London: Churchill Livingstone.
- Robbins SL, Carton RS & Kumar V. 2004. *Pathologic basis of disease*. 7th. Edi. London: Igaku-shoin. Eastwood M. 1997. *Principles of Human Nutrition*. 1st. Edi. London Chapman and Hall.
- Jacqueline G. Black (2008), *Microbiology* 7th Edition, John Wiley & Sons (Asia) Pte. Ltd.
- Brian Henderson, Micheal Wilson, Rod Mc Nab, Alistair J. Lax (2000), *Cellular microbiology Bacteria-Host Interactions in Health Disease*, John Wiley and Sons Co.
- Warren Levinson & Earnest Jawetz (2002), *Review of Medical Microbiology & Immunology* 7th Edition, Mc Graw-Hill Co., Inc.
- Richard L. Sweet & Ronald S. Gibbs (2000), *Infectious Diseases of the Female Genital Tract* 4th Edition, Lippincott Williams & Wilkins Co.
- Dale MM, Haylett DG. 2004. *Pharmacology condensed*. Churchill Livingstone.
- Kumar P& Clark M.2002.Clinical Medicine.5th Edition.WB Saunders.
- Chilvers ER, Colledge NR, Hunter JAA, Haslett C & Boon NA. 2003. *Davidson's Principles and Practice of Medicine*. 19th Edition. Churchill Livingstone.

MM20305 CARDIORESPIRATORY SYSTEM

This course is to study the clinical disorder caused from abnormal changes in structure, function and biochemistry of the heart, blood vein, lungs and breathing. Clinical disorder will be discuss for cardiovascular system including heart rhythm disorders, failure of heart, heart valve diseases, heart infections such as rheumatic diseases and effective endocarditics, heart ischemia disease such as angina pectoris and infarct endocardium, hypertension, myocardium disease and pericardium, arteriosclerosis etc. Allergic diseases for system respiratory such as asthma, bronchitis chronic, emphysema, bronchiectasis, lung cancer, pneumoconiosis will be discussed. These discussions will cover organ/tissue that involved pathogenesis, diagnosis, laboratory research and treatment. Prevention of clinical disorder will also be discussed.

References

- Chilvers ER, Colledge NR, Hunter JAA, Haslett C & Boon NA. 2003. *Davidson's Principles and Practice of Medicine*. 19th Edition. Churchill Livingstone.
- Longmore M, Wilkinson I & Torok E. 2002. *Oxford Handbook of Clinical Medicine*. 5th Edition. Oxford University Press.
- Robbins SL, Cotran RS & Kumar V. 2004. *Pathologic Basis of Disease*. 7th edition. Igaku-shoin.

MM20405 MUSCULOSKELETAL AND SKIN SYSTEM

This course is to study the clinical disorder caused by the abnormal changes in structure, function and bone biochemistry, muscle, joints and skin. Clinical disorders that will be discussed are including rheumatoid arthritis, gout, SLE, scleroderma, osteoarthritis, osteomyelitis, cancer, psoriasis, etc. These discussions will cover organ/tissue that involved pathogenesis, diagnosis, laboratory research and treatment. Prevention of clinical disorder will also be discussed.

References

- Chilvers ER, Colledge NR, Hunter JAA, Haslett C & Boon NA. 2003. *Davidson's Principles and Practice of Medicine*. 19th Edition. Churchill Livingstone.
- Longmore M, Wilkinson I & Torok E. 2002. *Oxford Handbook of Clinical Medicine*. 5th Edition. Oxford University Press.
- Robbins SL, Cotran RS & Kumar V. 2004. *Pathologic Basis of Disease*. 7th edition. Igaku-shoin.

MM20505 GASTROINTESTINAL, BILLIARY AND GENITOURINARY SYSTEM

This course is to study the clinical disorder caused by the abnormal changes in structure, function and gastrointestinal biochemistry, hepar and kidney. Clinical disorders that will be discussed are including esophagus, esophagus cancer, ulcer peptic, gastritis, gastric cancer pancreas diseases, hepar infection, sirosis hepar, abdomen acute disease, ulcerative colitis, colon and rectum cancer, etc. kidney diseases such as glorulonephritis, urinary tract infection, kidney failure, calculus, etc. will be discussed. These discussions will cover organ/tissue that involved pathogenesis, diagnosis, laboratory research and treatment. Prevention of clinical disorder will also be discussed.

References

- Chilvers ER, Colledge NR, Hunter JAA, aslett C & Boon NA. 2003. *Davidson's Principles and Practice of Medicine*. 19th Edition. Churchill Livingstone.
- Longmore M, Wilkinson I & Torok E. 2002. *Oxford Handbook of Clinical Medicine*. 5th Edition. Oxford University Press.
- Robbins SL, Cotran RS & Kumar V. 2004. *Pathologic Basis of Disease*. 7th Edition. Igaku-shoin.

MM20605 BLOOD, LYMPHATIC, ENDOCRINE AND IMMUNE SYSTEM

This course is to study the clinical disorder caused by the abnormal changes in structure, function and bloods biochemistry, blood formation organ, lymphatic and component immune system. Clinical disorders that will be discussed are including anemia, leukemia, thalassemia, lymphoma, hemophilia and abnormalities immune system. These discussions will cover organ / tissue that involved pathogenesis, diagnosis, laboratory research and treatment. Prevention of clinical disorder will also be discussed.

References

Kumar V., Abbas A.K., Fausto N. : 2005 Robins and Cotran Pathologic Basis of Disease 7th ed. Elsevier Saunders. Hoffbrand A.V., Moss P.A.H., Pettit J.E. : 2006 Essential Haematology 5th ed. Blackwell publishing 2006
Mohan H. 2006 Text Book of Pathology 5th ed. Jaypee Brothers Medical Publishers (P) Ltd 2006
Boon N.A., Colledge N.R., Walker B.R., Hunter J.A.A.: 2006 Davidson's Principles and practice of Medicine, ed. Churchill Livingstone Elsevier 2006
Longmore M, Wilkinson I & Torok E. 2002. Oxford Handbook of Clinical Medicine. 5th Edition. Oxford University Press.

MM20705 THE NERVOUS SYSTEM AND MENTAL HEALTH

This course is to study the clinical disorder caused by the abnormal changes in structure, function and biochemistry. Clinical disorders that will be discussed including brain infection, meninges, and spinal cord, demyelinating diseases, extrapyramidal system disorder, periphery nerve disorder and degenerative diseases. This course also will cover mental problems such as neuroses, personality disorder, addicted, psychosis, etc. These discussions will cover organ/tissue that involved pathogenesis, diagnosis, laboratory research and treatment. Prevention of clinical disorder will also be discussed.

References

Mark F. Bear, Barry Connors and Michael Paradiso (2006). Neuroscience: Exploring the Brain, Lippincott. Williams and Wilkins, USA.
Michael Conn (ed.) (2009) Neuroscience in Medicine, Humana Press, USA.
Wang, Z.-W (ed) (2009) Molecular Mechanism of Neurotransmitter Release, Humana press, USA.
Charney DS and Nestler EJ. (eds) (2009) Neurobiology of Mental Illness, 3rd ed, Oxford University Press, New York. Rosenberg et. al. (eds) The Molecular and Genetic Basis of Neurologic and Psychiatric Disease, 4th ed, Lippincott Williams & Wilkins, Philadelphia, pp. 788-801, 2008.
Kupfer DJ, Horner MS, Brent DA, Lewis DA, Reynolds CF, Thase ME, Travis MJ. (eds): (2008) The Oxford American Handbook of Psychiatry, Oxford University Press, New York.
Kaplan HI and Sadock BJ. (eds) Comprehensive Textbook of Psychiatry, 8th ed, Williams & Wilkins, New York.
Rosenberg R, Prusiner S, DiMauro S, Barchi R, and Nestler E. (eds) (2003) The Molecular and Genetic Basis of Neurologic and Psychiatric Disease, 3rd ed, Butterworth Heineman, Woburn, MA.
Davis KL, Charney D, Coyle JT, Nemeroff C. (eds) (2002) Neuropsychopharmacology: The Fifth Generation of Progress, Lippincott Williams & Wilkins, New York.
Chilvers ER, Colledge NR, Hunter JAA, Haslett C & Boon NA. 2003. Davidson's Principles and Practice of Medicine. 19th Edition. Churchill Livingstone.
Cotran RS, Kumar V, Collins T & Robbins SL. 1999. Robbins Pathologic Basis of Disease. 6th Edition. WB Saunders.

MM20802 EPIDEMIOLOGY IN CLINICAL PRACTICE

This course will be discussing on usage of epidemiology in clinical work such as making decision diagnosis method, diagnostic test validity and preliminary, prognosis disease determination and treatment compliance. Students will prepare a clinical research proposal that will be conducted in their clinical year.

References

Sackett DL, Haynes RB & Tugwell P. *Clinical epidemiology: A basic science for clinical medicine*. 2005. Boston: Little, Brown & Co.
Fletcher RH, *Clinical epidemiology – the essentials*. 2005 Lippincott Williams & Wilkins, 4th edition
R. Brian Haynes, David L. Sackett, Gordon H. Guyatt, Peter Tugwell, *Clinical Epidemiology: How to Do Clinical Practice Research*, 2006 Lippincott Williams & Wilkins, 3rd edition
Leon Gordis. *Epidemiology*. 2004 London: WB Saunders, 3rd edition
Ann Aschengrau, George R Seage III, *Essentials of Epidemiology in Public Health*, 2003, Jones & Bartlett Publishers, US edition
William J Ray, *Methods toward a Science of Behaviour & Experience*, 2006 Thomson Wadsworth, USA, 8th edition
John M. Last, *A Dictionary of Epidemiology*, 2000, Oxford University Press, USA; 4th edition

MM30104 INTRODUCTION TO CLINICAL MEDICINE, RADIOLOGY AND THERAPEUTICS (ICMRT)

This posting will cover a period of 4 weeks. During the first week students will study the principles of therapeutics. They will revise the technique of physical examination in the clinical skill lab. The diagnostic imaging technique will be studied during the posting. During four weeks student will be posted to Queen Elizabeth Hospital Kota Kinabalu. During the period between 8 am and 12.30 pm students will be divided in smaller groups and allocated to various wards to do ward work. In the afternoon there will be clinical presentation and bedside teaching with a clinical staff and lecturers, with the specific objectives of learning how to take a good clinical history and the fundamental steps of physical examination.

References

Hutchison's clinical methods (21st Edition); Editor Mesas, W.B Saunders 2002.
Macleod's Clinical Examination, 10th Ed. John Munro, I.W Campbell, Churchill Livingstone, 2000.
Hayes, PC and Bell D. 1996. *Examination Medicine. A guide to physician training*. 3rd Ed. London. Blackwell Scientific Publications.

References

Kumar V., Abbas A.K., Fausto N. : 2005 *Robins and Cotran Pathologic Basis of Disease* 7th ed. Elsevier Saunders.
Hoffbrand A.V., Moss P.A.H., Pettit J.E. : 2006 *Essential Haematology* 5th ed. Blackwell publishing 2006
Mohan H. 2006 *Text Book of Pathology* 5th ed. Jaypee Brothers Medical Publishers (P) Ltd 2006
Boon N.A., Colledge N.R., Walker B.R., Hunter J.A.A. : 2006 *Davidson's Principles and practice of Medicine*, ed. Churchill Livingstone Elsevier 2006

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Mark F. Bear, Barry Connors and Michael Paradiso (2006). *Neuroscience: Exploring the Brain*, Lippincott. Williams and Wilkins, USA.
Michael Conn (ed.) (2009) *Neuroscience in Medicine*, Humana Press, USA.
Wang, Z.-W (ed) (2009) *Molecular Mechanism of Neurotransmitter Release*, Humana press, USA.
Charney DS and Nestler EJ. (eds) (2009) *Neurobiology of Mental Illness*, 3rd ed, Oxford University Press, New York.
Rosenberg et. al. (eds) *The Molecular and Genetic Basis of Neurologic and Psychiatric Disease*, 4th ed, Lippincott Williams & Wilkins, Philadelphia, pp. 788-801, 2008.
Kupfer DJ, Horner MS, Brent DA, Lewis DA, Reynolds CF, Thase ME, Travis MJ. (eds): (2008) *The Oxford American Handbook of Psychiatry*, Oxford University Press, New York.
Kaplan HI and Sadock BJ. (eds) *Comprehensive Textbook of Psychiatry*, 8th ed, Williams & Wilkins, New York.
Rosenberg R, Prusiner S, DiMauro S, Barchi R, and Nestler E. (eds) (2003) *The Molecular and Genetic Basis of Neurologic and Psychiatric Disease*, 3rd ed, Butterworth Heineman, Woburn, MA.
Davis KL, Charney D, Coyle JT, Nemeroff C. (eds) (2002) *Neuropsychopharmacology: The Fifth Generation of Progress*, Lippincott Williams & Wilkins, New York.

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Sackett DL, Haynes RB & Tugwell P. *Clinical epidemiology: A basic science for clinical medicine*. 2005. Boston: Little, Brown & Co.
Fletcher RH, *Clinical epidemiology – the essentials*. 2005 Lippincott Williams & Wilkins, 4th edition
R. Brian Haynes, David L. Sackett, Gordon H. Guyatt, Peter Tugwell, *Clinical Epidemiology: How to Do Clinical Practice Research*, 2006 Lippincott Williams & Wilkins, 3rd edition
Leon Gordis. *Epidemiology*. 2004 London: WB Saunders, 3rd edition
Ann Aschengrau, George R Seage III, *Essentials of Epidemiology in Public Health*, 2003, Jones & Bartlett Publishers, US edition
William J Ray, *Methods toward a Science of Behaviour & Experience*, 2006 Thomson Wadsworth, USA, 8th edition

John M. Last, *A Dictionary of Epidemiology*, 2000, Oxford University Press, USA; 4th edition

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References

- Hutchison's clinical methods* (21st Edition); Editor Mesas, W.B Saunders 2002.
Macleod's Clinical Examination, 10th Ed. John Munro, I.W Campbell, Churchill Livingstone, 2000.
Hayes, PC and Bell D. 1996. *Examination Medicine. A guide to physician training*. 3rd Ed. London. Blackwell Scientific Publications.
Talley NJ & O'Connor S. 2001. *Clinical Examination: A Systematic Guide to Physical Diagnosis*. 4th Edition. Blackwell Science.

MM30209 MEDICAL JUNIOR POSTING (MJP)

This posting is intended to provide the students an opportunity to develop clinical skills, knowledge and attitudes in Internal Medicine (Cardiology, Endocrinology, Hematology, Gastroenterology, Infectious Diseases, Nephrology, Laboratory Medicine, neurology, Rheumatology and Skin Diseases). By the end of this posting, the student should be able to take a comprehensive history of the patient, perform an adequate clinical examination, arrive to a relevant clinical diagnosis and differential diagnosis and suggest an appropriate plan of investigations. The student should acquire a basic knowledge, but not comprehensive one, of the management of common medical disease, and of the side-effects of drugs. The student should understand and appreciate the socio-cultural background of patients. The student should be able to perform simple practical procedures, e.g. venipuncture, fundoscopy. The student should also learn how to communicate effectively with doctors and paramedical staff.

References

- Davidson's Principles and Practice of Medicine, 20th Ed; 2007 Kumar and Clark. Clinical Medicine, 6th Ed; 2005 Kasper et al. Harrison's Principles of Internal Medicine, 16th Ed; 2008
Talley NJ, O'Connor S. Clinical examination and systemic guide to physical diagnosis, 5th Ed; 2006
Macleod's Clinical examination, 11th Ed; 2005

MM30309 SURGERY JUNIOR POSTING (SJP)

This posting will provide an opportunity for the students to develop clinical skills, knowledge and attitudes through practical sessions on the wards, outpatient clinics, in the emergency room and in the operating theatre. The course also provides a framework of structured didactic teaching on some of the common surgical problems and lectures ward rounds (pre-op and post-op), seminars and tutorials in the relevant aspects of clinical laboratory sciences. Students will be attached to a particular Surgical Dept for the duration of the course.

References

- Ellis H and Calne R, 2006: Lecture Notes on General Surgery, 11th Edition, London; Blackwell Publishing.
Mann CV, Russel RCG & Williams NS. 2004. Bailey and Love's Short Practice of Surgery. 24th Edition. London; Arnold Publishers.
Forrest, Carter, Macleod; Principles and Practice of Surgery. Churchill Livingstone, 3rd Edition, 1995
Norman L Browse; an Introduction to the Symptoms and Signs of Surgical Disease. 4th Edition, 2005, Hodder
Arnold Robin C.N.Williamson&Bruce P.Waxman:An Aid to Clinical Surgery.Churchill Livingstone, 6th Edition, 1998
Lawrence W. Way, Gerard M. Doherty, 2003. Current Surgical Diagnosis & Treatment, 11th edition, McGraw-Hill Companies Hamilton Baily's Physical Signs (demonstration of physical signs in clinical surgery), 18th edition
Russell RCG, Williams NS & Bulstrode CJK. 2004. Bailey & Love's Short Practice of Surgery. 24th Edition. Arnold.
Bradbury AW,Forsythe LR& Garden OJ.2002. Principles and Practice of Surgery. 4th Edition. Churchill Livingstone.
Talley NJ & O'Connor S. 2001. *Clinical Examination: A Systematic Guide to Physical Diagnosis*. 4th Edition. Blackwell Science.

MM30409 OBSTETRICS & GYNAECOLOGY JUNIOR POSTING (ONGJP)

This posting will provide an opportunity for the students to develop clinical skills, knowledge and attitudes through practical sessions on the wards, delivery room, outpatient clinics, in the emergency room and in the operating theatre. The course also provides a framework of structured didactic teaching on some of the

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common obstetric and gynaecological problems, lectures, ward rounds (ante natal and post natal), seminars and tutorials. Students will be attached to a particular Obstetric and Gynaecology Dept for the duration of the course.

References

Obstetrics by Ten Teachers (2006), Philip N Baker (Ed), 18th edition, Edward Arnold (Publishers) Ltd.
Gynaecology by Ten Teachers (2006), Ash Moga (Ed), 18th edition, Edward Arnold (Publishers) Ltd. Obstetrics Illustrated (1998), Alistair W. F. Miller, Kevin P. Hanretty (Ed), 5th edition, WB Saunder Company. Gynaecology Illustrated (1998), David McKay Hart, Jane Norman (Ed), 5th edition.
Turnbull's Obstetrics (2001), Chamberlain G (Ed), 3rd edition, Churchill Livingstone.
Practical Obstetric Problems (1979), Ian Donald (Ed), 5th edition, Lloyd-Luke Ltd.
Hanretty K, Ramsden I & Callander R. 2003. Obstetrics Illustrated. 6th Edition. Churchill Livingstone.
Hart DM, Norman J, Callander R & Ramsden I. 2000. Gynaecology Illustrated. 5th Edition. Churchill Livingstone.
Chamberlain G & Steer P. 2002. Turnbull's Obstetrics. 3rd Edition. Churchill Livingstone.
Campbell S, Clayton SG & Lees C. 2000. Obstetrics by Ten Teachers. 17th Edition. Arnold.
Collier JAB, Longmore M, Scally P, Colier J & Longmore JM. 2003. Oxford Handbook of Clinical Specialties. 6th Edition. Oxford University Press.

MM40108 PAEDIATRIC POSTING (PEP)

This posting is aimed at giving the student an opportunity to develop clinical skills, knowledge and professional attitudes in paediatrics. They will be encouraged to participate in ward duties, outpatient clinics and acute paediatric emergencies. They will also be expected to conduct themselves with appropriate professionalism when dealing with paediatric patients.

References

Illustrated Textbook of Paediatrics, Tom Lissauer and Clayden, 3rd edition, 2007 Mosby.
Essential Paediatrics, Hull D & Johnston DI, 4th edition, 1999, Churchill Livingstone.
Paediatric Protocols for Malaysian Hospital, Hussain Iman B. Muhammad Ismail, Ng Hoong Phak, Ministry of Health, Malaysia, 1st edition, 2005.
Management of the Child with a serious infection or severe malnutrition, Department of child & adolescent Health & Development, WHO 2000.
Paediatric Refresher Course 2001, Department of Paediatrics, Queen Elizabeth Hospital, Kota Kinabalu.
Paediatric Clinical Examination Made Easy, 5th edition, Denis Gill & Niall O'Brien 2007
Paediatric Problems in Tropical Countries, Robison M J, & Lee EI
Tutorials in Paediatric Differential Diagnosis, edition, David J Field, David Isaacs & John Stroobant. 2005. Elsevier Churchill Livingstone.

MM40308 COMMUNITY MEDICINE POSTING (CMP)

The medical education programme at UMS will be evidence based and socially driven. This posting will expose the students to the exact environment of patients in community. The posting will be undertaken in Kudat. The student will be expected to do health surveys, conduct a community intervention programme and study the family health history known as PUPUK.

References

James F. McKenzie, Robert R. Pinger, and Jerome E. Kotecki, Introduction to Community Health 2007, Jones & Bartlett Publishers, Inc.; 6th edition
Jeff Conant & Pam Fadem, A Community Guide to Environmental Health, Hesperian Publishing, 2008 Sunderland, Textbook of Community Medicine (Preventive & Social Medicine), CBS Publishers & Distributors 2007
Leon Gordis, Epidemiology: with STUDENT CONSULT Online Access, 2008, Saunders; 4th edition Judith Green, Nicki
Thorogood, Qualitative Methods for Health Research, 2009, London School of Hygiene & Tropical Medicine, 2nd edition.
Ann Aschengrau, George R Seage III, Essentials of Epidemiology in Public Health, 2003, Jones & Bartlett Publishers, US edition
William J Ray, Methods toward a Science of Behaviour & Experience, 2006 Thomson Wadsworth, USA, 8th edition
Carole Lium Edelman and Carol Lynn Mandle, Health Promotion throughout the Life Span, 2005, Elsevier/Mosby; 6th edition

MM40408 PSYCHIATRY POSTING (PP)

This posting gives the opportunity for the student to develop their clinical skills, knowledge and professionalism attitude in psychiatry through practical session in ward, outpatient ward, emergency room, community and patient house. This course will provide the didactic teaching on the usual psychiatry disorders. The student will be located at Psychiatry Clinic, Hospital Queen Elizabeth and Hospital Mesra Bukit Padang throughout the course.

References

- Kaplan, H.I; Sadock, B.J. (eds).(1994). Synopsis of psychiatry behavioural sciences and clinical psychiatry, seventh edition. Gelder, M; Gath, D; Mayou, R; Cowen, P. (2008). Oxford Textbook of Psychiatry, third edition. Oxford University Press. American Psychiatric Association: Diagnostic and Statistic Manual of Mental Disorder. Fourth edition. Washington DC: American Psychiatric Association 1994.
- Lishman, W.A. (2001). Organic Psychiatry-The Psychological Consequences of Cerebral Disorder, fourth edition. Blackwell Science Ltd.
- Johnstone, EC; Freeman, C.P.L; Zealley, A.K. (2004). Companion to Psychiatric Studies, seventh edition. Churhill Livingstone.
- Sadock BJ & Sadock VA. 2002. Kaplan and Sadock's Synopsis of Psychiatry: Behavioral Sciences / Clinical Psychiatry. 9th Edition. Lippincott Williams & Wilkins.

MM40508 ORTHOPAEDICS POSTING (OP)

This posting gives opportunity to student to develop their clinical skills, knowledge and professionalism attitude related to the musculoskeletal system, trauma through ward practical session, outpatient clinic and emergency room. This course will provide the didactic teaching on the usual musculoskeletal diseases and trauma. The student will be located at the Orthopaedic department throughout the course.

References

- Apley's System of Orthopaedics and fracture (8th edition) by Louis Solomon, Davic Warwick and Selvadurai Nagayan. Review of Orthopaedics by Mark D. Miller, 3rd Edition.
- Orthopaedic examination by Ronald Mc Rae (Churchill Livingstone 2nd edition) Wheeler's textbook of orthopaedic.
- Roger Dee, 2003. Principles of Orthopaedic Practice by (2nd Edition).
- Solomon L, Warwick DJ & Nayagam S. 2004. Apley's Concise System of Orthopaedics & Fractures. 3rd Edition. Arnold.

MM40608 COMBINED SPECIALITIES POSTING (CSP)

This posting will comprise exposure to the disciplines of ENT, Ophthalmology, Anaesthesiology and a continuation of their previous introductory course in Radiology.

References

- DhillonRS& EastCA.1999.Ear,Nose,ad Throat,and Head and Neck Surgery:An Illustrated Colour Text.2nd Edition. Churchill Livingstone.
- O'Donoghue GM, Narula AA & Bates GJ. 1999. Clinical ENT: An Illustrated Textbook. 2nd Edition. Singular.
- James B, Chew C, Bron A & Bron AJ. 2003. Lecture Notes on Ophthalmology. 9th Edition. Blackwell Science.
- Duker JS & Yanoff M. 2003. Ophthalmology. 2nd Edition. Mosby.
- Ouellette H & Tetreault P. 2000. Clinical Radiology Made Ridiculously Simple. 1st Edition. MedMaster.
- Kanski JJ & Menin J. 2003. Clinical Ophthalmology: A Systematic Approach. 5th Edition. Butterworth Heinemann.
- Duker JS & Yanoff M. 2003. Ophthalmology. 2nd Edition. Mosby.
- Bongard FS & Sue DY. 2002. Current Critical Care Diagnosis & Treatment. 2nd Edition. McGraw-Hill/ Appleton & Lange.Saia. 2003. Appleton and Lange Review for the Radiography Exam. 5th Edition.McGraw-Hill Professional.
8. Ouellette H & Tetreault P. 2000. Clinical Radiology Made Ridiculously Simple. 1st Edition. MedMaster.

MM40708 FAMILY MEDICINE AND DISTRICT HOSPITAL POSTING (FMDHP)

This is a seven-week posting where students will learn various aspects of primary healthcare in a Family Medical Practice setting (2 weeks) and a Health Clinic (2 weeks), as well as secondary healthcare in a district hospital (2 weeks). In many areas of Sabah, the delivery of primary and secondary healthcare often co-exists. During this posting, students will be posted to an established Family Medical Practice and a major Health Clinic in Kota Kinabalu (Luyang, Penampang, Putatan or Tuaran). They will be expected to learn the significance of primary care in health and in illness. Students will see common healthcare problems at point of first contact and will be expected to develop knowledge, skills, values and attitudes necessary for a holistic approach to healthcare. For the district hospital attachment, students will be expected to interact with the District Hospital staff and participate fully in the routine health care provision at this level. Tasks include clerking all patients from admission to discharge, performing minor procedures under supervision, assisting in the Operating Theatre, the Accident and Emergency Department and where appropriate, in the Labour Ward. It is expected that this will provide adequate exposure of our students to the range of social and economic impacts of the environment on the health status of the community. FMHS has selected the Duchess of Kent Hospital Sandakan, Hospital Kinabatangan and a few health centre in the vicinity of Kota Kinabalu to participate in this programme.

References

Practice Tips, John Murtagh 4th edition (2008), McGraw Hill
Patient Education, John Murtagh, 4th edition (2008), McGraw Hill
Essentials of Family Medicine, Sloan, Slatt, Ebell, Jacques and Smith, 5th edition (2008), Lippincott Williams & Wilkins
Kementerian Kesihatan Malaysia website – *Clinical Practice Guidelines*
General Practice, John Murtagh 4th edition (2007), McGraw Hill
Sarawak Handbook of Medical Emergencies, Soo, Lau, and Chew, 2nd edition, (2005), C.E. Publishing

Prescribed Text Books

General Practice, John Murtagh 4th edition (2007), McGraw Hill
Sarawak Handbook of Medical Emergencies, Soo, Lau, and Chew, 2nd edition, (2005), C.E. Publishing

MM40802 FORENSIC MEDICINE POSTING (FMP)

This posting will give students an opportunity to observe post mortem examinations where the cause of death is unknown. It will also enable students to understand the subject of medical jurisprudence with special reference to Malaysian medical law.

References

Simpson K, Knight B, 1985. *Forensic Medicine*, 9th Edition. ELBS/Edward Arnold. Jay Dix. 1999. *Color Atlas of Forensic Pathology*. CRC Press.
Di Miao VJM et al. *Forensic Pathology*. 2nd Edition. CRC Press.

MT50106 ELECTIVE POSTING

This posting is to broaden the student's perceptions of medical practice. Therefore, students will be expected to do this posting in any medical setting outside UMS. This could be local, regional or international but the minimum period of attachment will be 4 weeks. The choice of clinical practice or immersion in basic research will be left to the student's discretion. Students will have to plan their attachments well in advance and will need to formalise such arrangements with a designated member of academic staff.

MM50110 MEDICAL SENIOR POSTING (MSP)

This posting will further develop the student's appreciation of the subject by exposing him to the practical aspect of good clinical medicine. Didactic teaching will be minimized so that self study can be encouraged.

References

Davidson's *Principles and Practice of Medicine*, 20th ed. 2007 Kumar and Clark. *Clinical Medicine*. 6th ed. 2005
Kasper et al. *Harrison's Principles of Internal Medicine*, 16th ed. 2008
Talley NJ, O'Connor S, *Clinical examination and systemic guide to physical diagnosis*, 5th ed, 2006
Macleod's *Clinical examination*, 11th ed, 2005

MM50210 SURGERY SENIOR POSTING (SSP)

This posting will be directed towards providing students with an appreciation for the surgical art in the hope of stimulating a desire for future post graduate training. The course will therefore stress a clinical approach to teaching (bedside, ward rounds, operating theatre) on the assumption that they will have already covered the theory component in earlier rotations. Didactic teaching will be kept to a minimum whilst self motivated learning is encouraged. Like the senior Medicine posting, they will again be exposed to 4 important surgical Sub specialities during this rotation.

References

Ellis H and Calne R, 2006: *Lecture Notes on General Surgery*, 11th Edition, London; Blackwell Publishing.
Mann CV, Russel RCG & Williams NS. 2004. *Bailey and Love's Short Practice of Surgery*. 24th Edition. London; Arnold Publishers.
Forrest, Carter, Macleod; *Principles and Practice of Surgery*. Churchill Livingstone, 3rd Edition, 1995
Norman L Browse; *An Introduction to the Symptoms and Signs of Surgical Disease*. 4th Edition, 2005, Hodder Arnold.
Robin C.N.Williamson & Bruce P.Waxman: *An Aid to Clinical Surgery*. Churchill Livingstone 6th Edition, 1998
Lawrence W. Way, Gerard M. Doherty, 2003. *Current Surgical Diagnosis & Treatment*, 11th edition, McGraw-Hill
Companies Hamilton Baily's *Physical Signs (demonstration of physical signs in clinical surgery)*, 18th edition

MM50310 OBSTETRICS AND GYNAECOLOGY SENIOR POSTING (ONGSP)

This posting will reinforce the student knowledge, clinical skills towards obstetric and gynecology and also expose to higher skills in this field. Didactic teaching will be kept to a minimum whilst self motivated learning is encouraged. Like the senior Medicine posting, they will again be exposed to 4 important surgical Sub specialities during this rotation. Neonatology posting will familiarise the students with the skills involved in neonatal resuscitation.

References

Obstetrics by Ten Teachers (2006), Philip N Baker (Ed), 18th edition, Edward Arnold (Publishers) Ltd.
Gynaecology by Ten Teachers (2006), Ash Moga (Ed), 18th edition, Edward Arnold (Publishers) Ltd. Obstetrics Illustrated (1998), Alistair W. F. Miller, Kevin P. Hanretty (Ed), 5th edition, WB Saunder Company. Gynaecology Illustrated (1998), David McKay Hart, Jane Norman (Ed), 5th edition.
Turnbull's Obstetrics (2001), Chamberlain G (Ed), 3rd edition, Churchill Livingstone.
Practical Obstetric Problems (1979), Ian Donald (Ed), 5th edition, Lloyd-Luke Ltd.

MM50510 PAEDIATRIC SENIOR POSTING (PSP)

This 8 week posting in Paediatric and Neonatology during which students will familiarize themselves with the skills involved in neonatal resuscitation and paediatric basic life support (PBLs) and advanced paediatric life support (APLS). They will also become familiar with the medical, psychological, economic and ethical aspects of modern paediatric and neonatal care. In addition, they will be expected to know how to communicate with parents who have experienced an unfavorable outcome to their child. During this period, students will learn how to examine paediatric and newborn infant and the techniques of neonatal resuscitation, PBLs & APLS. They will also be expected to be able to counsel parents with children requiring neonatal intensive care and paediatric intensive care.

References

Illustrated Textbook of Paediatrics, Tom Lissauer and Clayden, 3rd edition, 2007 Mosby
Essential Paediatrics, Hull D & Johnston DI, 4th edition, 1999, Churchill Livingstone
Paediatric Protocols for Malaysian Hospital, Hussain Iman B. Muhammad Ismail, Ng Hoong Phak, Ministry of Health, Malaysia, 1st edition, 2005.
Management of the Child with a serious infection or severe malnutrition, Department of child & adolescent Health & Development, WHO 2000.
Paediatric Refresher Course 2001, Department of Paediatrics, Queen Elizabeth Hospital, Kota Kinabalu.
Paediatric Clinical Examination Made Easy, 5th edition, Denis Gill & Niall O'Brien 2007
Paediatric Problems in Tropical Countries, Robison M J, & Lee EI
Tutorials in Paediatric Differential Diagnosis, edition, David J Field, David Isaacs & John Stroobant. 2005. Elsevier
Churchill Livingstone

MM50405 SHADOW HOUSE OFFICER POSTING (SHOP)

During this posting, students will be given the opportunity to function as House Officers in the 4 major disciplines i.e., Medicine, Surgery, Obstetrics and Gynaecology and Paediatrics. The fifth 2-week period will be utilised by students to complete their PUPUK Family Case Study prior to submission for assessment. During each posting the student will function exactly like a House Officer and will be under the direct supervision of the Houseman. The students will be expected to live-in during this posting and do "on-calls" as House Officers do.