HONG KONG COLLEGE OF PAEDIATRICIANS

WORKING GROUP ON CURRICULUM REVIEW

SYLLABUS PROPOSAL

AREA: Metabolic Medicine

Liaison WGCR member: Dr Joanna Yuet-ling Tung

Non-specialist reviewer: Dr Eric Lee

**BASIC TRAINING**

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| **TOPICS** | **SUBTOPICS** |
| Metabolic emergency | Recognition of metabolic emergency  Initial approach to investigation and acute management of   * Hypoglycaemia * Hyperammonaemia * Metabolic acidosis |
| Clinical presentations | Recognition of clinical presentations of inherited metabolic disorders (IMD): metabolic emergency, neurological involvement such as intellectual disability, cardiomyopathy, liver disease, kidney disease and sudden death etc. |
| Basic and special metabolic investigations | Indications of metabolic tests including basic: ammonia, lactate, ketones, glucose, gas and a range of special investigations  Approach to abnormalities in basic metabolic investigations |
| Newborn screening for inherited metabolic disorders | Basic knowledge on the current Hong Kong Newborn Screening Program for Inborn Errors of Metabolism (NBSIEM) including scope of service and potential limitations |

Essential skills

1. Domain 2 – Communication
2. Domain 4 – Patient management
3. Domain 5 – Health promotion & illness prevention

Desirable skills (but optional for General Paediatric Training)

1. To understand the biochemical and molecular basis of IMD

**HIGHER TRAINING**

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| **TOPICS** | **SUBTOPICS** |
| Metabolic emergency | Further workup and subsequent management of   * Hypoglycaemia * Hyperammonaemia * Metabolic acidosis |
| Special metabolic investigations | Indications and approach to abnormalities of specific metabolic investigations including biochemical and molecular analyses |
| Newborn screening for inherited metabolic disorders | Basic knowledge on the current Hong Kong Newborn Screening Program for Inborn Errors of Metabolism (NBSIEM) including scope of service and potential limitations |
| Management of inherited metabolic disorders | Principles of management of IMD including dietary therapy, transplantation etc |

Essential skills

1. Domain 2 – Communication
2. Domain 4 – Patient management
3. Domain 5 – Health promotion & illness prevention
4. Domain 6 – Leadership & team working

Desirable skills (but optional for General Paediatric Training)

1. To understand the biochemical, molecular, management basis and strategies for IMD
2. To evaluate the usefulness and limitations of NBSIEM from a public health perspective

Cross reference with:

1. Genetics and Genomics
2. Paediatric Endocrinology
3. Paediatric Neurology