**Hong Kong College of Pathologists**

**Chemical Pathology Training Logbook**

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| --- | --- |
| Name: | |
| Training Reference Number: | |
| Year: | |
| Location of Training: | |
|  | 1. |
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|  | 3. |
| Chief Trainer: | |
|  | 1. |
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|  | 3. |
| Examination (HKCPath and others) Taken and Result (with Date): | |
|  | e.g. MRCPath Membership September 2002 Passed |
|  | 1. |
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**Chemical Pathology Training Checklist**

1. Clinical Biochemistry

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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | physiology and pathophysiology of body fluid and electrolytes |  |  |
| ii | control and disorders of acid-base balance and gaseous exchange |  |  |
| iii | clinical enzymology |  |  |
| iv | endocrinology |  |  |
| v | disturbances of lipid and carbohydrate metabolism |  |  |
| vi | disorders of bone and mineral metabolism |  |  |
| vii | hypertension and cardiovascular diseases |  |  |
| viii | kidney and urinary tract diseases |  |  |
| ix | disorders of the liver and gastrointestinal tract |  |  |
| x | neuromuscular disorders |  |  |
| xi | toxicology and therapeutic drug monitoring |  |  |
| xii | paediatric biochemistry and newborn screening (including biochemical and genetic aspects) |  |  |
| xiii | inherited metabolic disorders |  |  |
| xiv | assessment of nutrition and deficiency syndromes |  |  |
| xv | disorders of haemoglobin and porphyrin metabolism |  |  |
| xvi | pregnancy and its disorders (including non- invasive prenatal testing) |  |  |
| xvii | clinical biochemistry of extreme age |  |  |
| xviii | metabolic response to insult (e.g. trauma, burn, surgery) |  |  |
| xix | biochemical aspects of malignancy, cancer genetics and applications of circulating nucleic acids |  |  |
| xx | biochemical aspects of transplantation |  |  |
| xxi | biochemical aspects of cellular pathology (e.g. receptor, membrane transport, signal transduction) |  |  |
| xxii | core aspects of genetic and genomic disorders. Mendelian and non-Mendelian inheritance patterns, genetic and genomic testing, pedigree analysis and genetic risk assessment, genetic counselling and ethics |  |  |
| xxiii | pharmacogenetics, pharmacogenomics and precision medicine |  |  |

1. Hands-on practical skills on laboratory techniques

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| --- | --- | --- | --- |
| Category of techniques | Description of work performed (use separate sheet if required) | Comment and signature of Trainer | Date |
| Spectrophotometric Techniques |  |  |  |
| Nephelometry & Turbidimetry |  |  |  |
| Electrophoresis |  |  |  |
| Chromatography and Mass Spectrometry |  |  |  |
| Immunochemical Techniques |  |  |  |
| Laboratory Automation |  |  |  |
| Molecular Biology Techniques: - Nucleic acid preparation - Primer design and polymerase chain reaction - Mutation detection methods  - Mutation data analysis |  |  |  |
| Method Development and Evaluation |  |  |  |
| Quality Control and Quality Assurance |  |  |  |

1. Laboratory Management and Medical Informatics

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| --- | --- | --- | --- |
|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | human resources management |  |  |
| ii | financial management |  |  |
| iii | laboratory organization |  |  |
| iv | laboratory information technology |  |  |
| v | data management, bioinformatics tools and laboratory mathematics |  |  |
| vi | laboratory accreditation |  |  |
| vii | health and safety |  |  |

1. Case-based Discussion (minimum of 6 cases required per year)

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|  | **Brief Case Summary and Discussion**  **(use separate sheet if required)** | **Comment and Signature of Trainer** | **Date** |
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5. Evaluation of Interpretive Reporting (minimum of 6 satisfactory outcomes required per year )

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|  | **Brief Summary**  **(use separate sheet if required)** | **Comment and Signature of Trainer** | **Date** |
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6. Clinical Activities (Including attendance at ward rounds, case discussion, specialty clinics, etc.)

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|  | **Activities** | **Comment and Signature of Trainer** | **Date** |
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1. Academic Activities

# Presentation/ Publication

* **Two** mandatory presentations at meetings(mandatory for trainees in all disciplines registered on or after 16 October 2008. Either on-stage or poster presentation, and at least one must be at the Trainee Presentation Sessions or conferences organized by the College).

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|  | **Activities** | **Comment and Signature of Trainer** | **Date** |
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# Attendance of training course/ seminar etc.

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# Others (e.g. teaching)

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1. Research and Development

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**Chemical Pathology Analytes Checklist**

1. General Chemistry Tests

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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | Renal function tests |  |  |
| ii | Liver function tests/GGT |  |  |
| iii | Muscle enzymes |  |  |
| iv | Blood gases |  |  |
| v | Glucose |  |  |
| vi | Osmolality |  |  |
| vii | Calcium (total and ionized) |  |  |
| viii | Phosphate |  |  |
| ix | Urate |  |  |

1. Common Diagnostic Profiles

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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | Biochemical markers of myocardial injury |  |  |
| ii | Biochemical markers of bone turnover |  |  |
| iii | Iron profile (serum iron, TIBC, transferrin & transferrin receptor, ferritin) |  |  |
| iv | Lipid profile (including lipoproteins/apolipoproteins) |  |  |

1. Enzymes/Proteins

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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | Amylase |  |  |
| ii | Lipase |  |  |
| iii | Isoenzymes of CK/LDH/Alk Phos |  |  |
| iv | Cholinesterase |  |  |
| v | Transketolase |  |  |
| vi | ALA dehydrase |  |  |
| vii | Caeruloplasmin |  |  |
| viii | Alpha-1-antitrypsin |  |  |
| ix | Acid phosphatase |  |  |
| x | CRP and other acute phase proteins |  |  |
| xi | Myoglobin |  |  |
| xii | Haptoglobin |  |  |
| xiii | Urine proteins (albumin, β2-microglobulin, RBP) |  |  |
| xiv | Glycated proteins/haemoglobins |  |  |
| xv | Cryoglobulin |  |  |
| xvi | Pre-albumin |  |  |
| xvii | Immunoglobulins and Paraproteins |  |  |

1. Tumour Markers

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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | PSA, AFP, CEA |  |  |
| ii | Cancer antigens (CA 125, CA 19-9, etc) |  |  |
| iii | Total and β-HCG |  |  |
| iv | Thyroglobulin |  |  |
| v | Serotonin/5-HIAA |  |  |
| vi | Catecholamines and metabolites (HVA, VMA) |  |  |

1. Hormones

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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | TFTs |  |  |
| ii | PTH and PTH-rP |  |  |
| iii | Calcitonin |  |  |
| iv | Cortisol/ACTH/17-OHP |  |  |
| v | Reproductive hormones/Sex Steroids/Prolactin |  |  |
| vi | Renin/Aldosterone |  |  |
| vii | Urine ketosteroid and steroid profiles |  |  |
| viii | Androstenedione/DHEA/DHEAS |  |  |
| ix | Insulin/C-Peptide |  |  |
| x | GH/IGFs |  |  |

1. Trace elements/Micronutrients

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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | Magnesium/Copper |  |  |
| ii | Lead/Mercury/Arsenic/Cadmium |  |  |
| iii | Zinc/Manganese |  |  |
| iv | Folate |  |  |
| v | Vitamins A/C/D/B1, B2, B6, B12 |  |  |
| vi | Aluminium |  |  |

1. TDM/Toxicology

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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | Anticonvulsants |  |  |
| ii | Antimicrobials |  |  |
| iii | Digoxin |  |  |
| iv | Methotrexate |  |  |
| v | Lithium |  |  |
| vi | Cyclosporin/Tacrolimus/MPA |  |  |
| vii | Paracetamol/Salicylate/Alcohols |  |  |
| viii | Carboxy-Hb |  |  |
| ix | Paraquat |  |  |
| x | Common poisons and drugs of abuse |  |  |

1. Inherited Metabolic Diseases

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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | Urine reducing substances |  |  |
| ii | Ammonia/Orotic acid |  |  |
| iii | Pyruvate/Lactate |  |  |
| iv | Total and free Carnitine |  |  |
| v | Unesterified fatty acid/Acetoacetate/β-OH Butyrate |  |  |
| vi | Fatty acids profile |  |  |
| vii | Amino acids profile |  |  |
| viii | Organic acids profile |  |  |
| ix | Carnitine profile |  |  |
| x | GAG profile |  |  |
| xi | PBG/Porphyrin profile/δ-ALA |  |  |
| xii | Neonatal/Prenatal screening profile |  |  |

1. Miscellaneous Tests

|  |  |  |  |
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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | Oxalate |  |  |
| ii | Bile acids |  |  |
| iii | Faecal fat |  |  |
| iv | Xylose |  |  |
| v | Homocyst(e)ine |  |  |
| vi | MetHb |  |  |
| vii | Bilirubin fractions |  |  |
| viii | Calculi |  |  |
| ix | DNA |  |  |
| x | RNA |  |  |

**Appendix 1**

**TRAINEE ANNUAL RETURN AND ASSESSMENT BY EDUCATIONAL SUPERVISOR (Year \_\_of 6)**

Please ask your Educational Supervisor to complete the annual return at the end of each year of training. It is your responsibility to file in the return to the Secretary of the Training and Examination Committee. You should keep a duplicate of the return in your Log Book for reference.

Trainee’s name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Trainee number:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Position code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

This is a report on the period from \_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_ (please specify long leave, if any, that is more than 90 continuous calendar days: \_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_)

The trainee has now finished \_\_\_\_\_ years of basic training / \_\_\_\_\_ years of higher training.

Training Locations, including electives details:

(1)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(2)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(3)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(4)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Professional qualifications (e.g. FRCPath, Ph D):

(1)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(2)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

If the training programme was terminated before year end, please specify the date of termination and state the reason.

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Trainee’s signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Performance of trainee during the report period:**

(Please give assessment with a scale of 1-5: 1-poor, 2-below average, 3-average, 4-above average, 5-good)

a. competence commensurate with training received ( )

b. participation in education activities ( )

c. keeping up with literature ( )

d. participation in research activities ( )

e. proficiency in laboratory management ( )

f. proficiency in laboratory safety measures ( )

g. attitudes, ethics and professionalism ( )

**Aspects that need improvement (performance not commensurate with the duration of training received)**

a. practical clinical skills (please specify)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. theoretical knowledge (please elaborate)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. suggestion for improvement

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**Overall appraisal:**

( ) The performance during the period is satisfactory.

( ) The training programme for the period has been successfully completed but the performance is not satisfactory.

( ) The trainee has fulfilled the training requirements for admission to Membership Examination / Fellowship Assessment / Fellowship (delete where appropriate).

( ) Other comments, please specify:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**The training acquired by the trainee has been reviewed by me, and is summarized in the attached table. The content has been thoroughly discussed and suggestions were made to the trainee for continuous improvement.**

Official use only

Vetted by Chief Examiner on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Educational Supervisor’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Please return the completed form to: Dr WONG Chi Kin Felix, Secretary, Training and Examinations Committee, c/o Division of Chemical Pathology, Department of Pathology, Queen Mary Hospital, 102 Pokfulam Road, Hong Kong.

Tel: (852) 2255 1293; Email: [wck457@ha.org.hk](mailto:wck457@ha.org.hk)

**SUMMARY OF TRAINING: enter months spent/frequency of activity**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** | TOTAL |
| Hospital attached to |  |  |  |  |  |  |  |
| Clinical Biochemistry |  |  |  |  |  |  |  |
| Analytical Technique and Instrumentation |  |  |  |  |  |  |  |
| Laboratory Management and Medical Informatics |  |  |  |  |  |  |  |
| Clinical Consultation |  |  |  |  |  |  |  |
| Interpretive Reporting |  |  |  |  |  |  |  |
| Clinical Activities |  |  |  |  |  |  |  |
| Academic Activities |  |  |  |  |  |  |  |
| Research and Development |  |  |  |  |  |  |  |

**Appendix 2**

**REFERENCES ON PROFESSIONALISM AND ETHICS**

**Please complete the Continuous Medical Education exercise on Professionalism and Ethics on the web-based platform after reading.**

Confidentiality

<https://www.gmc-uk.org/ethical-guidance/learning-materials/confidentiality-decision-tool>

Disclosing information for education and training purposes

<https://www.gmc-uk.org/ethical-guidance/ethical-guidance-for-doctors/confidentiality---disclosing-for-education-and-training-purposes>

Disclosing information for employment, insurance and similar purposes

<https://www.gmc-uk.org/ethical-guidance/ethical-guidance-for-doctors/confidentiality---disclosing-information-for-employment-insurance-and-similar-purposes>

Disclosing medical records after death

<https://www.gmc-uk.org/ethical-guidance/learning-materials/disclosing-medical-records-after-death>

Good practice in handling patient information

<https://www.gmc-uk.org/ethical-guidance/ethical-guidance-for-doctors/confidentiality>

Responding to criticism in the media

<https://www.gmc-uk.org/ethical-guidance/ethical-guidance-for-doctors/confidentiality---responding-to-criticism-in-the-media>

Consent to research

<https://www.gmc-uk.org/ethical-guidance/ethical-guidance-for-doctors/consent-to-research>

Raising concern

<https://www.gmc-uk.org/ethical-guidance/learning-materials/raising-concerns---a-colleagues-behaviour>

Code of professional conduct

<https://www.mchk.org.hk/english/code/files/Code_of_Professional_Conduct_(English_Version)_(Revised_in_October_2022).pdf>

Declaration of Geneva

<https://www.mchk.org.hk/english/code/files/Declaration_of_Geneva_2018.pdf>

Ethical guidelines on practice of telemedicine

<https://www.mchk.org.hk/files/PDF_File_Ethical_Guidelines_on_Telemedicine.pdf>

Hong Kong doctors

<https://www.mchk.org.hk/english/publications/files/HKDoctors.pdf>

Leadership and management for all doctors

<https://www.gmc-uk.org/ethical-guidance/ethical-guidance-for-doctors/leadership-and-management-for-all-doctors>

Quality assurance of professionalism

<https://bimhse.med.hku.hk/fme/2010/(Prof%20Grace%20Tang)%20Quality%20Assurance%20in%20Professionalism%20Frontiers%20in%20Med%20&%20Health%20Education%20Dec%202010.pdf>

Strategic Development of Genomic Medicine in Hong Kong

<https://www.fhb.gov.hk/en/press_and_publications/otherinfo/200300_genomic/index.html>

WMA international code of medical ethics

<https://www.wma.net/policies-post/wma-international-code-of-medical-ethics/>

Using social media as a medical professional

<https://www.gmc-uk.org/professional-standards/professional-standards-for-doctors/using-social-media-as-a-medical-professional>

Ending your professional relationship with a patient

<https://www.gmc-uk.org/ethical-guidance/ethical-guidance-for-doctors/ending-your-professional-relationship-with-a-patient>

Identifying and managing conflicts of interest

<https://www.gmc-uk.org/professional-standards/professional-standards-for-doctors/identifying-and-managing-conflicts-of-interest>

Maintaining personal and professional boundaries <https://www.gmc-uk.org/professional-standards/professional-standards-for-doctors/maintaining-personal-and-professional-boundaries>

Personal beliefs and medical practice

<https://www.gmc-uk.org/ethical-guidance/ethical-guidance-for-doctors/personal-beliefs-and-medical-practice>

Identifying and tackling sexual misconduct

<https://www.gmc-uk.org/professional-standards/ethical-hub/identifying-and-tackling-sexual-misconduct#Overview>