**Hong Kong College of Pathologists**

**Immunology Training Logbook**

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| --- | --- |
| Name: | |
| Position code: | |
| Trainee number: | |
| Year: | |
| Location of Training: | |
|  | 1. |
|  | 2. |
|  | 3. |
| Chief Trainer: | |
|  | 1. |
|  | 2. |
|  | 3. |
| Examination (HKCPath and others) Taken and Result (with Date): | |
|  | e.g. MRCPath Membership September 2002 Passed |
|  | 1. |
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|  | 3. |
|  | 4. |

**Immunology Training Checklist**

1. **Theoretical knowledge**
2. Basic Immunology

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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | Immune cell biology |  |  |
| ii | Innate immunity |  |  |
| iii | Lymphoid tissue |  |  |
| iv | Immune response |  |  |
| v | Major histocompatibility complex |  |  |
| vi | Immunoglobulins and immunoglobulin genes |  |  |
| vii | B cells and the humoral immune response |  |  |
| viii | T cells, NK cells and the cellular immune response |  |  |
| ix | Complement |  |  |
| x | Mucosal immune system |  |  |

1. Clinical Immunology

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| --- | --- | --- | --- |
|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | Immunodeficiency – T, B, combined, phagocytic, complement, secondary |  |  |
| ii | Allergy – type I, II, III, IV |  |  |
| iii | Immunological diseases of specific organ or system – rheumatic, endocrine, haematologic, cardiac, vascular, gastrointestinal, hepatobiliary, renal, dermatologic, eye, respiratory, reproductive |  |  |
| iv | Tumour immunology |  |  |
| v | Immune cell neoplasms – leukaemia, lymphoma, plasma cell dyscrasia |  |  |
| vi | Immunologic therapy – immunotherapy, transplantation, immunisation, immunosuppression, immunomodulation |  |  |

1. **Analytical Technique and Instrumentation**

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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
| i | Serological test techniques and equipment |  |  |
| ii | Cell function test techniques and equipment |  |  |
| iii | Histocompatibility test techniques and equipment |  |  |
| iv. | Molecular test techniques and equipment |  |  |

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 organisation |  |  |
| iv | laboratory information technology |  |  |
| v | data management and laboratory mathematics |  |  |
| vi | laboratory accreditation |  |  |
| vii | health and safety |  |  |
| viii | Quality control and quality assurance |  |  |

1. **Clinical Consultation**

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|  | **Brief Case Summary and Recommendations**  **(use separate sheet if required)** | **Comment and Signature of Trainer** | **Date** |
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1. **Interpretative Reporting**

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|  | **Tests** | **Comment and Signature of Trainer** | **Date** |
| 1. | Serum/urine protein electrophoresis, immunofixation |  |  |
| 2. | Indirect immunofluorescence – ANA, ANCA, anti-mitochondria, anti-smooth muscle, anti-gastric parietal cell, anti-LKM, anti-islet cells, anti-adrenal, anti-striated muscle, anti-skin, anti-endomysium |  |  |
| 3. | Counter-current immunoelectrophoresis for anti-ENA |  |  |
| 4. | Iso-electric focusing for CSF oligoclonal bands |  |  |
| 5 | Cell mediated cytotoxicity for HLA typing, antibody and crossmatching |  |  |
| 6. | Molecular techniques – DNA and RNA extraction, polymerase chain reaction, molecular hybridization assays, sequencing etc |  |  |

1. **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 (e.g. teaching/presentation/training course/seminar/publication … etc.)**

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|  | **Activities** | **Comment and Signature of Trainer** | **Date** |
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**Presentation 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).

Title of presentation 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Meeting name, venue and dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Supervisor and coauthors names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Title of presentation 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Meeting name, venue and dates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Supervisor and coauthors names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Research and Development of new test**

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|  | **Topics** | **Comment and Signature of Trainer** | **Date** |
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**9. Immunology Analytes Checklist**

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| AUTOANTIBODIES |  | IMMUNOCHEMISTRY |
| Anti-nuclear antibody |  | C3, C4 |
| Anti-ds DNA |  | C1 inhibitor (antigen level) |
| Anti-extractable nuclear antigen (ENA) |  | C1 inhibitor (functional level) |
| Anti-cardiolipin, anti-β2-glycoprotein I |  | IgG, IgA, IgM |
| Rheumatoid factor |  | IgG subclass |
| Anti-mitochondria |  | IgE |
| Anti-smooth muscle |  | β2-microglobulin |
| Anti-liver kidney microsomal (LKM) |  | C-reactive protein |
| Anti-parietal cell |  | α1-antitrypsin |
| Anti-endomysium |  | Serum/urine protein electrophoresis/immunofixation |
| Anti-intrinsic factor |  | CSF oligoclonal protein |
| Anti-striated muscle |  | Cryoglobulins – detection and if positive, characterisation |
| Anti-adrenal cortex |  | Complement function (CH50) |
| Anti-neutrophil cytoplasmic antibody |  |  |
| MPO-ANCA |  | α1-antitrypsin clearance |
| PR3-ANCA |  |  |
| Anti-acetyl choline receptor |  | Serum Free Light Chain |
| Anti-thyroglobulin |  | Heavy/Light Chain assay |
| Anti-thyroid microsomes |  |  |
| Anti-skin |  |  |
| Anti-pancreatic islet cell |  |  |
| Anti-salivary duct |  |  |
| Anti-ovary |  |  |
| Anti-glomerular basement membrane |  |  |
| Anti-cyclic citrullinated peptide |  |  |
| Anti-human Tissue Transglutaminase |  |  |
| Anti-F-actin IgG (FACT |  |  |
| Anti-DNA-bound lactoferrin |  |  |
| Anti-Saccharomyces cerevisiae |  |  |
| Anti-Aquaporin-4 |  |  |
| anti-neuronal antibodies |  |  |
| Anti-NMDAR antibodies |  |  |
| Autoimmune encephalitis antibodies |  |  |
| Myositis specific antibodies |  |  |
| * Allergy assays |  |  |
| Basophil activation tests |  |  |
| Allergen-specific IgE |  |  |
| Allergen component resolved diagnostics |  |  |
| Tryptase |  |  |

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| IMMUNE CELL FUNCTIONS |
| Lymphocyte subset profile:  T-cells (CD3), B-cells (CD19), T-helper cells (CD4),T-suppressor/cytotoxic cells (CD8), NK-cells (CD16, CD56), B cell subset |
| T-lymphocyte function:  (a) Mitogen (PHA, Con A, PWM) stimulation  (b) Antigen stimulation |
| B-lymphocyte function:  (a) PWM/SAC-induced Ig-secretion   1. Evaluation of T-cell regulation 2. In vivo antibody production |
| Neutrophil function:   1. Nitroblue tetrazolium reduction, myeloperoxidase, 2. leukocyte adhesion glycoprotein (CD11b), 3. chemotaxis Candida killing, chemotaxis, 4. chemiluminescence 5. S. aureus Killing |
| NK-cell function: K562 cytotoxicity, CD107a, Perforin and Granzyme B |
| Basophil Activation Tests |
| Cytokine profile |

## **Other immunologic laboratory tests**

* Histocompatibility testing
* Molecular genetic techniques for the immune system
* Immunohaematology
* Human neutrophil genotyping (HNA) and anti-HNA antibody testing

**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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Please specify the no. of electrophoresis and immunofluorescence read by the trainee in the report period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

No. of outpatient department and ward round sessions attended

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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)

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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. The content of this report 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)

**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>