INTERNATIONAL CLINICAL FELLOWSHIP TRAINING IN

PAEDIATRICS

Allergy and Immunology
This curriculum of training in Paediatrics Allergy and Immunology was developed in 2016 and undergoes an annual review by Dr. Ronan Leahy National Specialty Directors, Dr. Ann O'Shaughnessy, Head of Education and Professional Development and by the Paediatrics Allergy and Immunology Training Committee. The curriculum is approved by the Faculty of Paediatrics.

<table>
<thead>
<tr>
<th>Version</th>
<th>Date published</th>
<th>Last edited by</th>
<th>Version comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>16/06/2016</td>
<td>Ciara Buckley</td>
<td>New curriculum</td>
</tr>
</tbody>
</table>
Table of Contents

INTRODUCTION .................................................................................................................. 4

GENERIC COMPONENTS ................................................................................................. 7

- Standards of Care ........................................................................................................ 8
- Dealing with & Managing Acutely Ill Patients in Appropriate Specialties .................. 11
- Good Professional Practice ....................................................................................... 13
- Infection Control ......................................................................................................... 15
- Therapeutics and Safe Prescribing ........................................................................... 17
- Self-Care and Maintaining Well-Being ..................................................................... 18
- Communication in Clinical and Professional Setting ................................................. 20
- Leadership .................................................................................................................. 22
- Quality Improvement ................................................................................................. 24
- Scholarship ................................................................................................................ 26
- Management ............................................................................................................... 27
- General Paediatrics .................................................................................................... 28
- Emergency Medicine .................................................................................................. 33

SPECIALTY SECTION ...................................................................................................... 35

- Management of the Immunocompromised Patients .................................................... 36
- Infections in the Immunocompromised Child .............................................................. 37
- Management of Infection .......................................................................................... 38
- Understanding of Prophylactic, Pre-Emptive and Therapeutic Prescribing ............... 39
- The Acquisition of a Core Body of Knowledge in Fundamental Immunology and its Applications ................................................................. 40
- Structured Clinical Training – General Aspects ......................................................... 43
- Diagnosis and Management of Immunodeficiency Disorders in Children ............... 44
- Immunological Procedures ....................................................................................... 46
- Research Methodology and Epidemiology ................................................................. 47
- Diagnosis and Management of Common Allergic Diseases in Children ................... 48

MINIMUM REQUIREMENTS FOR TRAINING .................................................................. 50
Introduction

The International Clinical Fellowship Programme (ICFP) provides a route for overseas doctors wishing to undergo structured and advanced postgraduate medical training in Ireland. The ICFP enables suitably qualified overseas postgraduate medical trainees to undertake a fixed period of active training in clinical services in Ireland. The programme is normally offered over one or two years of clinical training, after which the overseas doctors will be required to return to their country of origin. In limited certain circumstances, the period of training may extend to three years. The purpose of the ICFP is to enable overseas trainees to gain access to structured training and in active clinical environments that they cannot get in their own country, with a view to enhancing and improving the individual's medical training and learning and, in the medium to long term, the health services in their own countries.

This Programme will allow participants to access a structured period of training and experience as developed by the Royal College of Physicians of Ireland to specifically meet the clinical needs of participants as defined by their home country's health service.

Aims

Upon satisfactory completion of the ICFP, the doctor will be competent to undertake comprehensive medical practice in their chosen specialty in a professional manner, in keeping with the needs of the healthcare system.

Competencies, at a level consistent with practice in the specialty, will include the following:

- Patient care that is appropriate, effective and compassionate dealing with health problems and health promotion.
- Medical knowledge in the basic biomedical, behavioural and clinical sciences, medical ethics and medical jurisprudence and application of such knowledge in patient care.
- Interpersonal and communication skills that ensure effective information exchange with individual patients and their families and teamwork with other health professionals, the scientific community and the public.
- Appraisal and utilisation of new scientific knowledge to update and continuously improve clinical practice.
- Capability to be a scholar, contributing to development and research in the field of the chosen specialty.
- Professionalism.
- Ability to understand health care and identify and carry out system-based improvement of care.

Professionalism

Medical professionalism is a core element of being a good doctor. Good medical practice is based on a relationship of trust between profession and society, in which doctors are expected to meet the highest standards of professional practice and behaviour. It involves partnership between patient and doctor that is based on mutual respect, confidentiality, honesty, responsibility and accountability. In addition to maintaining clinical competence, a doctor should also:

- Show integrity, compassion and concern for others in day-to-day practice
- Develop and maintain a sensitive and understanding attitude with patients
- Exercise good judgement and communicate sound clinical advice to patients
- Search for the best evidence to guide professional practice
- Be committed to continuous improvement and excellence in the provision of health care whether working alone or as part of a team

Prior to commencing their sponsored clinical placements, all participants will also be required to undergo the mandatory screening requirements of the relevant clinical site/service including occupational health assessment and Garda/Police clearance.
Training Programme Duration & Organisation of Training

The period of clinical training that will be provided under the International Clinical Fellowship Programme (ICFP) is normally 12-24 months, after which the overseas doctors will be required to return to their country of origin. In certain circumstances, the period of training may extend to three years.

- Each ICFP is developed by the Royal College of Physicians of Ireland will be specifically designed so as to meet the training needs of participants to support the health service in their home country.
- All appointees to the ICFP will be assessed by the Royal College of Physicians of Ireland to ensure that they possess the necessary requirements from a training and clinical service perspective.
- Each overseas doctor participating in the ICFP will be enrolled with the Royal College of Physicians of Ireland and will be under the supervision of a consultant doctor who is registered on the Specialist Division of the Register of Medical Practitioners maintained by the Medical Council and who is an approved consultant trainer.
- Appointees to the ICFP will normally be registered on the Supervised Division of the Register of Medical Practitioners maintained by the Medical Council in Ireland.
- Appointees will agree a training plan with their trainers at the beginning of each training year.
- For the duration of their International Medical Graduate (IMG) programme and associated clinical placements, all participants will remain directly employed and directly paid by their sponsoring state at a rate appropriate to their training level in Ireland and benchmarked against the salary scales applicable to NCHD’s in Ireland;
- Successful completion of an ICFP will result in the participant being issued with a formal Certificate of completion for the Fellowship Programme by the Royal College of Physicians of Ireland. This Certificate will enable the participant’s parent training body in their sponsoring home country to formally recognise and accredit their time spent training in Ireland.

The training programme offered will provide opportunities to fulfil all the requirements of the curriculum of training. There will be posts in both general hospitals and teaching hospitals. Each post within the programme will have a named trainer/educational supervisor and programmes will be under the direction of the National Specialist Director for the relevant medical speciality to be confirmed by the College. Programmes will be as flexible as possible consistent with curricular requirements, for example to allow the trainee to develop their sub-specialty interest.

ePorfolio logbook

Each trainee is responsible for maintaining an up-to-date record of progress through training and compiling a portfolio of achievements for presentation at each annual assessment review. The trainee also has a duty to maximise opportunities to learn, supplementing the training offered with additional self-directed learning in order to fulfil all the educational goals of the curriculum. Up-to-date training records and an ePortfolio of achievements will be maintained by the trainee throughout. The training records will be countersigned as appropriate by the trainers to confirm the satisfactory fulfilment of the required training experience and the acquisition of the competencies set out in the training plan. They will remain the property of the trainee and must be produced at their annual assessment review.

Trainees must co-operate with the College in completing their training plan. It is in a trainee’s own interest to maintain contact with the Royal College of Physicians of Ireland, and to respond promptly to all correspondence relating to training. At review, your ePortfolio will be examined.
Review

A consultant trainer/educational supervisor will be identified for each participant in the programme. He/she will be responsible for ensuring that the educational potential of the post is translated into effective training which is being fully utilized. Only departments approved for Training by the Royal College of Physicians of Ireland and its constituent training bodies will be used.

The training objectives to be secured should be agreed between each trainee and trainer at the commencement of each posting in the form of a written training plan. The trainer will be available throughout, as necessary, to supervise the training process. In each year trainees undergo a formal review by an appropriate panel. The panel will review in detail the training record, will explore with the trainee the range of experience and depth of understanding which has been achieved and consider individual trainer’s reports. An opportunity is also given to the trainee to comment on the training being provided; identifying in confidence any deficiencies in relation to a particular post.

A quarterly and annual review of progress through training will be undertaken on behalf of the International Clinical Fellowship Programme (ICFP). These will include assessments and reports by educational supervisors, confirmation of achievements and the contents of the ePortfolio will be reviewed. At some or all of these annual reviews a non-specialty assessor will be present capable of addressing core competencies.

The award of a Certificate of completion will be determined by a satisfactory outcome after completion of the entire series of assessments.
Generic Components

This chapter covers the generic components which are relevant to trainees of all specialties but with varying degrees of relevance and appropriateness, depending on the specialty. As such, this chapter needs to be viewed as an appropriate guide of the level of knowledge and skills required from all trainees with differing application levels in practice.
Standards of Care
Objective: To be able to consistently and effectively assess and treat patients’ problems

Medical Council Domains of Good Professional Practice: Patient Safety and Quality of Patient Care; Relating to Patients; Communication and Interpersonal Skills; Collaboration and Teamwork; Management (including Self-Management); Clinical Skills.

**KNOWLEDGE**

**Diagnosing Patients**
- How to carry out appropriate history taking
- How to appropriately examine a patient
- How to make a differential diagnosis

**Investigation, indications, risks, cost-effectiveness**
- The pathophysiological basis of the investigation
- Knowledge of the procedure for the commonly used investigations, common or/and serious risks
- Understanding of the sensitivity and specificity of results, artefacts, PPV and NPV
- Understanding significance, interpreting and explaining results of investigations
- Logical approach in choosing, sequencing and prioritising investigations

**Treatment and management of disease**
- Natural history of diseases
- Quality of life concepts
- How to accurately assess patient's needs, prescribe, arrange treatment, recognise and deal with reactions / side effects
- How to set realistic therapeutic goals, to utilise rehabilitation services, and use palliative care approach appropriately
- Recognising that illness (especially chronic and/or incapacity) has an impact on relationships and family, having financial as well as social effects e.g. driving

**Disease prevention and health education**
- screening for disease, (methods, advantages and limitations),
- health promotion and support agencies; means of providing sources of information for patients
- Risk factors, preventive measures, strategies applicable to smoking, alcohol, drug abuse, lifestyle changes
- Disease notification; methods of collection and sources of data

**Notes, records, correspondence**
- Functions of medical records, their value as an accurate up-to-date commentary and source of data
- The need and place for specific types of notes e.g. problem-orientated discharge, letters, concise out-patient reports
- Appreciating the importance of up-to-date, easily available, accurate information, and the need for communicating promptly e.g. with primary care

**Prioritising, resourcing and decision taking**
- How to prioritise demands, respond to patients’ needs and sequence urgent tasks
- Establishing (clinical) priorities e.g. for investigations, intervention; how to set realistic goals; understanding the need to allocate sufficient time, knowing when to seek help
- Understanding the need to complete tasks, reach a conclusion, make a decision, and take action within allocated time
- Knowing how and when to conclude
Handover

- Know what are the essential requirements to run an effective handover meeting
  - Sufficient and accurate patients information
  - Adequate time
  - Clear roles and leadership
  - Adequate IT
- Know how to prioritise patient safety
  - Identify most clinically unstable patients
  - Use ISBAR (Identify, Situation, Background, Assessment, Recommendations)
  - Proper identification of tasks and follow-ups required
  - Contingency plans in place
- Know how to focus the team on actions
  - Tasks are prioritised
  - Plans for further care are put in place
  - Unstable patients are reviewed

Relevance of professional bodies

- Understanding the relevance to practice of standards of care set down by recognised professional bodies – the Medical Council, Medical Colleges and their Faculties, and the additional support available from professional organisations e.g. IMO, Medical Defence Organisations and from the various specialist and learned societies

SKILLS

- Taking and analysing a clinical history and performing a reliable and appropriate examination, arriving at a diagnosis and a differential diagnosis
- Liaising, discussing and negotiating effectively with those undertaking the investigation
- Selecting investigations carefully and appropriately, considering (patients’) needs, risks, value and cost effectiveness
- Appropriately selecting treatment and management of disease
- Discussing, planning and delivering care appropriate to patient’s needs and wishes
- Preventing disease using the appropriate channels and providing appropriate health education and promotion
- Collating evidence, summarising, recognising when objective has been met
- Screening
- Working effectively with others including
  - Effective listening
  - Ability to articulate and deliver instructions
  - Encourage questions and openness
  - Leadership skills
- Ability to prioritise
- Ability to delegate effectively
- Ability to advise on and promote lifestyle change, stopping smoking, control of alcohol intake, exercise and nutrition
- Ability to assess and explain risk, encourage positive behaviours e.g. immunisation and preventive measures
- Ability to enlist patients’ involvement in solving their health problems, providing information, education
- Availing of support provided by voluntary agencies and patient support groups, as well as expert services e.g. detoxification / psychiatric services
- Valuing contributions of health education and disease prevention to health in a community
- Compiling adequate case notes, with results of examinations, investigations, procedures performed, sufficient to provide an accurate, detailed account of the diagnostic and management process and outcome, providing concise, informative progress reports (both written and oral)
- Maintaining legible records in line with the Guide to Professional Conduct and Ethics for Registered Medical Practitioners in Ireland
- Actively engaging with professional/representative/specialist bodies
ASSESSMENT & LEARNING METHODS

- Consultant feedback
- Workplace based assessment e.g. Mini-CEX, DOPS, CBD
- Educational supervisor’s reports on observed performance (in the workplace)
- Audit
- Medical Council Guide to Professional Conduct and Ethics
Dealing with & Managing Acutely Ill Patients in Appropriate Specialties

Objectives: To be able to assess and initiate management of patients presenting as emergencies, and to appropriately communicate the diagnosis and prognosis. Trainees should be able to recognise the critically ill and immediately assess and resuscitate if necessary, formulate a differential diagnosis, treat and/or refer as appropriate, elect relevant investigations and accurately interpret reports.

Medical Council Domains of Good Professional Practice: Patient Safety and Quality of Patient Care, Clinical Skills.

KNOWLEDGE

Management of acutely ill patients with medical problems

- Presentation of potentially life-threatening problems
- Indications for urgent intervention, the additional information necessary to support action (e.g. results of investigations) and treatment protocols
- When to seek help, refer/transfer to another specialty
- ACLS protocols
- Ethical and legal principles relevant to resuscitation and DNAR in line with National Consent Policy
- How to manage acute medical intake, receive and refer patients appropriately, interact efficiently and effectively with other members of the medical team, accept/undertake responsibility appropriately
- Management of overdose
- How to anticipate / recognise, assess and manage life-threatening emergencies, recognise significantly abnormal physiology e.g. dysrhythmia and provide the means to correct e.g. defibrillation
- How to convey essential information quickly to relevant personnel: maintaining legible up-to-date records documenting results of investigations, making lists of problems dealt with or remaining, identifying areas of uncertainty; ensuring safe handover

Managing the deteriorating patient

- How to categorise a patients’ severity of illness using Early Warning Scores (EWS) guidelines
- How to perform an early detection of patient deterioration
- How to use a structured communication tool (ISBAR)
- How to promote an early medical review, prompted by specific trigger points
- How to use a definitive escalation plan

Discharge planning

- Knowledge of patient pathways
- How to distinguish between illness and disease, disability and dependency
- Understanding the potential impact of illness and impairment on activities of daily living, family relationships, status, independence, awareness of quality of life issues
- Role and skills of other members of the healthcare team, how to devise and deliver a care package
- The support available from other agencies e.g. specialist nurses, social workers, community care
- Principles of shared care with the general practitioner service
- Awareness of the pressures/dynamics within a family, the economic factors delaying discharge but recognise the limit to benefit derived from in-patient care
SKILLS

- BLS/ACLS (or APLS for Paediatrics)
- Dealing with common medical emergencies
- Interpreting blood results, ECG/Rhythm strips, chest X-Ray, CT brain
- Giving clear instructions to both medical and hospital staff
- Ordering relevant follow up investigations
- Discharge planning
- Knowledge of HIPE (Hospital In-Patient Enquiry)
- Multidisciplinary team working
- Communication skills
- Delivering early, regular and on-going consultation with family members (with the patient’s permission) and primary care physicians
- Remaining calm, delegating appropriately, ensuring good communication
- Attempting to meet patients’/ relatives’ needs and concerns, respecting their views and right to be informed in accordance with Medical Council Guidelines
- Establishing liaison with family and community care, primary care, communicate / report to agencies involved
- Demonstrating awareness of the wide ranging effects of illness and the need to bridge the gap between hospital and home
- Categorising a patients’ severity of illness
- Performing an early detection of patient deterioration
- Use of structured communication tool (e.g. ISBAR)

ASSESSMENT & LEARNING METHODS

- ACLS course
- Record of on call experience
- Mini-CEX (acute setting)
- Case based discussions
- Consultant feedback
Good Professional Practice

Objective: Trainees must appreciate that medical professionalism is a core element of being a good doctor and that good medical practice is based on a relationship of trust between the profession and society, in which doctors are expected to meet the highest standards of professional practice and behaviour.

Medical Council Domains of Good Professional Practice: Relating to Patients, Communication and Interpersonal Skills, Professionalism, Patient Safety and Quality of Patient Care.

KNOWLEDGE

Effective Communication

- How to listen to patients and colleagues
- Disclosure – know the principles of open disclosure
- Knowledge and understanding of valid consent
- Teamwork
- Continuity of care

Ethics

- Respect for autonomy and shared decision making
- How to enable patients to make their own decisions about their health care
- How to place the patient at the centre of care
- How to protect and properly use sensitive and private patient information according to Data Protection Act and how to maintain confidentiality
- The judicious sharing of information with other healthcare professionals where necessary for care following Medical Council Guidelines
- Maintaining competence and assuring quality of medical practice
- How to work within ethical and legal guideline when providing clinical care, carrying research and dealing with end of life issues

Honesty, openness and transparency (mistakes and near misses)

- When and how to report a near miss or adverse event
- Knowledge of preventing and managing near misses and adverse events. Incident reporting; root cause and system analysis
- Understanding and learning from errors
- Understanding and managing clinical risk
- Managing complaints
- Following open disclosure practices
- Knowledge of national policy and National Guidelines on Open Disclosure

Raising concerns about patient safety

- The importance of patient safety relevance in health care setting
- Standardising common processes and procedures – checklists, vigilance
- The multiple factors involved in failures
- Safe healthcare systems and provision of a safe working environment
- The relationship between ‘human factors’ and patient safety
- Safe working practice, role of procedures and protocols in optimal practice
- How to minimise incidence and impact of adverse events
- Knowledge and understanding of Reason’s Swiss cheese model
- Understanding how and why systems break down and why errors are made
- Health care errors and system failures
- Human and economic costs
SKILLS

- Effective communication with patients, families and colleagues
- Co-operation and collaboration with colleagues to achieve safe and effective quality patient care
- Being an effective team player
- Ability to learn from errors and near misses to prevent future errors
- Using relevant information from complaints, incident reports, litigation and quality improvement reports in order to control risks
- Minimising errors during invasive procedures by developing and adhering to best-practice guidelines for safe surgery
- Minimising medication errors by practicing safe prescribing principles
- Using the Open Disclosure Process Algorithm
- Managing errors and near-misses
- Managing complaints
- Ethical and legal decision making skills

ASSESSMENT & LEARNING METHODS

- Consultant feedback at annual assessment
- Workplace based assessment e.g. Mini-CEX, DOPS, CBD
- Educational supervisor’s reports on observed performance (in the workplace): prioritisation of patient safety in practice
- Patient Safety (on-line) – recommended
- Leadership in Clinical Practice III
- Quality improvement methodology course - recommended
- RCPI Ethics programmes (I-IV)
- Medical Council Guide to Professional Conduct and Ethics
- Reflective learning around ethical dilemmas encountered in clinical practice
**Infection Control**

**Objective:** To be able to appropriately manage infections and risk factors for infection at an institutional level, including the prevention of cross-infections and hospital acquired infection

**Medical Council Domains of Good Professional Practice:** Patient Safety and Quality of Patient Care; Management (including Self-Management).

**KNOWLEDGE**

**Within a consultation**

- The principles of infection control as defined by the HIQA
- How to minimise the risk of cross-infection during a patient encounter by adhering to best practice guidelines available (including the 5 Moments for Hand Hygiene guidelines)
- The principles of preventing infection in high risk groups e.g. managing antibiotic use to prevent Clostridium difficile
- Knowledge and understanding the local antibiotic prescribing policy
- Awareness of infections of concern, e.g. MRSA, Clostridium difficile
- Best practice in isolation precautions
- When and how to notify relevant authorities in the case of infectious disease requiring notification
- In surgery or during an invasive procedure, understanding the increased risk of infection in these patients and adhering to guidelines for minimising infection in such cases
- The guidelines for needle-stick injury prevention and management

**During an outbreak**

- Guidelines for minimising infection in the wider community in cases of communicable diseases and how to seek expert opinion or guidance from infection control specialists where necessary
- Hospital policy/seeking guidance from occupational health professional regarding the need to stay off work/restrict duties when experiencing infections the onward transmission of which might impact on the health of others

**SKILLS**

- Practicing aseptic techniques and hand hygiene
- Following local and national guidelines for infection control and management
- Prescribing antibiotics according to antibiotic guidelines
- Encouraging staff, patients and relatives to observe infection control principles
- Communicating effectively with patients regarding treatment and measures recommended to prevent re-infection or spread
- Collaborating with infection control colleagues to manage more complex or uncommon types of infection including those requiring isolation e.g. transplant cases, immunocompromised host
- In the case of infectious diseases requiring disclosure:
  - Working knowledge of those infections requiring notification
  - Undertaking notification promptly
  - Collaborating with external agencies regarding reporting, investigating and management of notifiable diseases
  - Enlisting / requiring patients’ involvement in solving their health problems, providing information and education
  - Utilising and valuing contributions of health education and disease prevention and infection control to health in a community
ASSESSMENT & LEARNING METHODS

- Consultant feedback at annual assessment
- Workplace based assessment e.g. Mini-CEX, DOPS, CBD
- Educational supervisor’s reports on observed performance (in the workplace): practicing aseptic techniques as appropriate to the case and setting, investigating and managing infection, prescribing antibiotics according to guidelines
- Completion of infection control induction in the workplace
- Healthcare Associated Infections (on-line) – recommended
Therapeutics and Safe Prescribing

Objective: To progressively develop ability to prescribe, review and monitor appropriate therapeutic interventions relevant to clinical practice in specific specialities including non-pharmacological therapies and preventative care.

Medical Council Domains of Good Professional Practice: Patient Safety and Quality of Patient Care.

KNOWLEDGE

- Pharmacology, therapeutics of treatments prescribed, choice of routes of administration, dosing schedules, compliance strategies; the objectives, risks and complications of treatment cost-effectiveness
- Indications, contraindications, side effects, drug interaction, dosage and route of administration of commonly used drugs
- Commonly prescribed medications
- Adverse drug reactions to commonly used drugs, including complementary medicines
- Identifying common prescribing hazards
- Identifying high risk medications
- Drugs requiring therapeutic drug monitoring and interpretation of results
- The effects of age, body size, organ dysfunction and concurrent illness or physiological state e.g. pregnancy on drug distribution and metabolism relevant to own practice
- Recognising the roles of regulatory agencies involved in drug use, monitoring and licensing e.g. IMB, and hospital formulary committees
- Procedure for monitoring, managing and reporting adverse drug reaction
- Effects of medications on patient activities including potential effects on a patient’s fitness to drive
- The role of The National Medicines Information Centre (NMIC) in promoting safe and efficient use of medicine
- Differentiating drug allergy from drug side effects
- Good Clinical Practice guidelines for seeing and managing patients who are on clinical research trials

SKILLS

- Writing a prescription in line with guidelines
- Appropriately prescribing for the elderly, children and pregnant and breast feeding women
- Making appropriate dose adjustments following therapeutic drug monitoring, or physiological change (e.g. deteriorating renal function)
- Reviewing and revising patients’ long term medications
- Anticipating and avoiding defined drug interactions, including complementary medicines
- Advising patients (and carers) about important interactions and adverse drug effects including effects on driving
- Providing comprehensible explanations to the patient, and carers when relevant, for the use of medicines
- Being open to advice and input from other health professionals on prescribing
- Participating in adverse drug event reporting
- Taking a history of drug allergy and previous side effects

ASSESSMENT & LEARNING METHODS

- Consultant feedback
- Workplace based assessment e.g. Mini-CEX, DOPS, CBD
- Educational supervisor’s reports on observed performance (in the workplace): prioritisation of patient safety in prescribing practice
- Principles of Antibiotics Use (on-line) – recommended
- Guidance for health and social care providers - Principles of good practice in medication reconciliation (HIQA)
Self-Care and Maintaining Well-Being

Objective:
1. To ensure that trainees understand how their personal histories and current personal lives, as well as their values, attitudes, and biases affect their care of patients so that they can use their emotional responses in patient care to their patients’ benefit
2. To ensure that trainees care for themselves physically and emotionally, and seek opportunities for enhancing their self-awareness and personal growth

Medical Council Domains of Good Professional Practice: Patient Safety and Quality of Patient Care, Relating to Patients, Communication and Interpersonal Skills, Collaboration and Teamwork, Management (including self-management).

KNOWLEDGE

- Self knowledge – understand own psychological strengths and limitations
- Understand how own personality characteristics (such as need for approval, judgemental tendencies, needs for perfection and control) affect relationships with patients and colleagues
- Knowledge of core beliefs, ideals, and personal philosophies of life, and how these relate to own goals in medicine
- Know how family-of-origin, race, class, religion and gender issues have shaped own attitudes and abilities to discuss these issues with patients
- Understand the difference between feelings of sympathy and feelings of empathy for specific patients
- Know the factors between a doctor and patient that enhance or interfere with abilities to experience and convey empathy
- Understanding of own attitudes toward uncertainty and risk taking and own need for reassurance
- How own relationships with certain patients can reflect attitudes toward paternalism, autonomy, benevolence, non-malfeasance and justice
- Recognise own feelings (love, anger, frustration, vulnerability, intimacy, etc) in “easy” and difficult patient-doctor interactions
- Recognising the symptoms of stress and burn out

SKILLS

- Exhibiting empathy and showing consideration for all patients, their impairments and attitudes irrespective of cultural and other differences
- Ability to create boundaries with patients that allow for therapeutic alliance
- Challenge authority appropriately from a firm sense of own values and integrity and respond appropriately to situations that involve abuse, unethical behaviour and coercion
- Recognise own limits and seek appropriate support and consultation
- Work collaboratively and effectively with colleagues and other members of health care teams
- Manage effectively commitments to work and personal lives, taking the time to nurture important relationship and oneself
- Ability to recognise when falling behind and adjusting accordingly
- Demonstrating the ability to cope with changing circumstances, variable demand, being prepared to re-prioritise and ask for help
- Utilising a non-judgemental approach to patient’s problem
- Recognise the warning signs of emotional ill-health in self and others and be able to ask for appropriate help
- Commitment to lifelong process of developing and fostering self-awareness, personal growth and well being
- Be open to receiving feedback from others as to how attitudes and behaviours are affecting their care of patients and their interactions with others
- Holding realistic expectations of own and of others’ performance, time-conscious, punctual
- Valuing the breadth and depth of experience that can be accessed by associating with professional colleagues
ASSESSMENT & LEARNING METHODS

- Occupational Stress course
- On-going supervision
- Ethics courses
- Leadership in Clinical Practice III
Communication in Clinical and Professional Setting

Objective: To demonstrate the ability to communicate effectively and sensitively with patients, their relatives, carers and with professional colleagues in different situations.

Medical Council Domains of Good Professional Practice: Relating to Patients; Communication and Interpersonal Skills.

KNOWLEDGE

Within a consultation

- How to effectively listen and attend to patients
- How to structure an interview to obtain/convey information; identify concerns, expectations and priorities; promote understanding, reach conclusions; use appropriate language.
- How to empower the patient and encourage self-management

Difficult circumstances

- Understanding of potential areas for difficulty and awkward situations, knowing how and when to break bad news, how to negotiate cultural, language barriers, dealing with sensory or psychological and/or intellectual impairments, how to deal with challenging or aggressive behaviour
- How to communicate essential information where difficulties exist, how to appropriately utilise the assistance of interpreters, chaperones, and relatives.
- How to deal with anger, frustration in self and others
- Selecting appropriate environment; seeking assistance, making and taking time

Dealing with professional colleagues and others

- How to communicate with doctors and other members of the healthcare team; how to provide concise, problem-orientated statement of facts and opinions (written, verbal or electronic)
- Knowledge of legal context of status of records and reports, of data protection (confidentiality), Freedom of Information (FOI) issues
- Understanding of the relevance to continuity of care and the importance of legible, accessible, records
- Knowing when urgent contact becomes necessary and the appropriate place for verbal, telephone, electronic, written communication
- Recognition of roles and skills of other health professionals
- Awareness of own abilities/limitations and when to seek help or give assistance, advice to others; when to delegate responsibility and when to refer

Maintaining continuity of care

- Understanding the relevance to outcome of continuity of care, within and between phases of healthcare management
- The importance of completion of tasks and documentation (e.g. before handover to another team, department, specialty), of identifying outstanding issues and uncertainties
- Knowledge of the required attitudes, skills and behaviours which facilitate continuity of care such as maintaining (legible) records, being available and contactable, alerting others to avoid potential confusion or misunderstanding through communications failure
Giving explanations

- The importance of possessing the facts, and of recognising uncertainty and conflicting evidence on which decisions have to be based
- How to secure, retain attention avoid distraction
- Understanding how adults receive information best, the relative value of the spoken, written, visual means of communication, use of reinforcement to assist retention
- Knowledge of risks of information overload
- Interpreting results, significance of findings, diagnosis, explaining objectives, limitations, risks of treatment, using communication adjusted to recipients’ ability to comprehend
- Ability to achieve level of understanding necessary to gain co-operation (compliance, informed choice, acceptance of opinion, advice, recommendation)

Responding to complaints

- Value of hearing and dealing with complaints promptly; the appropriate level, the procedures (departmental and institutional); sources of advice, assistance available
- The importance of obtaining and recording accurate and full information, seeking confirmation from multiple sources
- Knowledge of how to establish facts, identifying issues and responding quickly and appropriately to a complaint received

SKILLS

- Ability to elicit facts, using a mix of open and closed-ended questions appropriately
- Using “active listening” techniques such as nodding and eye contact
- Giving information clearly, avoiding jargon, confirming understanding, ability to encourage co-operation, compliance; obtaining informed consent
- Showing consideration and respect for other’s culture, opinions, patient’s right to be informed and make choices
- Respecting another’s right to opinions and to accept or reject advice
- Valuing perspectives of others contributing to management decisions
- Conflict resolution
- Dealing with complaints
- Communicating decisions in a clear and thoughtful manner
- Presentation skills
- Maintaining (legible) records
- being available, contactable, time-conscious
- Setting (and attempting to reach) realistic objectives, identifying and prioritising outstanding problems
- Using language, literature (leaflets) diagrams, educational aids and resources appropriately
- Ability to establish facts, identify issues and respond quickly and appropriately to a complaint received
- Accepting responsibility, involving others, and consulting appropriately
- Obtaining informed consent
- Discussing informed consent
- Giving and receiving feedback

ASSESSMENT & LEARNING METHODS

- Mastering Communication course
- Consultant feedback at annual assessment
  - Workplace based assessment e.g. Mini-CEX, DOPS, CBD
  - Educational supervisor’s reports on observed performance (in the workplace): communication with others e.g. at handover, ward rounds, multidisciplinary team members
- Presentations
- Ethics courses
- Leadership in Clinical Practice III
Leadership

Objective: To have the knowledge, skills and attitudes to act in a leadership role and work with colleagues to plan, deliver and develop services for improved patient care and service delivery.

Medical Council Domains of Good Professional Practice: Patient Safety and Quality of Patient Care; Communication and Interpersonal Skill; Collaboration and Teamwork; Management (including Self-Management); Scholarship.

KNOWLEDGE

Personal qualities of leaders

- Knowledge of what leadership is in the context of the healthcare system appropriate to training level
- The importance of good communication in teams and the role of human interactions on effectiveness and patient safety

Working with others

- Awareness of own personal style and other styles and their impact on team performance
- The importance of good communication in teams and the role of human interactions on effectiveness and patient safety

Managing services

- The structure and function of Irish health care system
- Awareness of the challenges of managing in healthcare
  - Role of governance
  - Clinical directors
- Knowledge of planning and design of services
- Knowledge and understanding of the financing of the health service
  - Knowledge of how to prepare a budget
  - Defining value
  - Managing resources
- Knowledge and understanding of the importance of human factors in service delivery
  - How to manage staff training, development and education
- Managing performance
  - How to perform staff appraisal and deal effectively with poor staff performance
  - How to rewards and incentivise staff for quality and efficiency

Setting direction

- The external and internal drivers setting the context for change
- Knowledge of systems and resource management that guide service development
- How to make decisions using evidence-based medicine and performance measures
- How to evaluate the impact of change on health outcomes through ongoing service evaluation
SKILLS

- Effective communication with patients, families and colleagues
- Co-operation and collaboration with others; patients, service users, carers colleagues within and across systems
- Being an effective team player
- Ability to manage resources and people
- Managing performance and performance indicators

Demonstrating personal qualities

- Efficiently and effectively managing one-self and one’s time especially when faced with challenging situations
- Continues personal and professional development through scholarship and further training and education where appropriate
- Acting with integrity and honesty with all people at all times
- Developing networks to expand knowledge and sphere of influence
- Building and maintaining key relationships
- Adapting style to work with different people and different situations
- Contributing to the planning and design of services

ASSESSMENT & LEARNING METHODS

- Mastering Communication course
- Leadership in Clinical Practice III
- Consultant feedback at annual assessment
- Workplace based assessment e.g. Mini-CEX, DOPS, CBD
- Educational supervisor’s reports on observed performance (in the workplace): on management and leadership skills
- Involvement in hospital committees where possible e.g. Division of Medicine, Drugs and Therapeutics, Infection Control etc.
Quality Improvement

Objective: To demonstrate the ability to identify areas for improvement and implement basic quality improvement skills and knowledge to improve patient safety and quality in the healthcare system.

Medical Council Domains of Good Professional Practice: Patient Safety and Quality of Patient Care; Communication and Interpersonal Skills; Collaboration and Teamwork; Management; Relating to Patients; Professionalism

KNOWLEDGE

Personal qualities of leaders

- The importance of prioritising the patient and patient safety in all clinical activities and interactions

Managing services

- Knowledge of systems design and the role of microsystems
- Understanding of human factors and culture on patient safety and quality

Improving services

- How to ensure patient safety by adopting and incorporating a patient safety culture
- How to critically evaluate where services can be improved by measuring performance, and acting to improve quality standards where possible
- How to encourage a culture of improvement and innovation

Setting direction

- How to create a ‘burning platform’ and motivate other healthcare professionals to work together within quality improvement
- Knowledge of the wider healthcare system direction and how that may impact local organisations
SKILLS

- Improvement approach to all problems or issues
- Engaging colleagues, patients and the wider system to identify issues and implement improvements
- Use of quality improvement methodologies, tools and techniques within every day practice
- Ensuring patient safety by adopting and incorporating a patient safety culture
- Critically evaluating where services can be improved by measuring performance, and acting to raise standards where possible
- Encouraging a culture of improvement and innovation

Demonstrating personal qualities

- Encouraging contributions and involvement from others including patients, carers, members of the multidisciplinary team and the wider community
- Considering process and system design, contributing to the planning and design of services

ASSESSMENT & LEARNING METHODS

- Leadership in Clinical Practice III
- Consultant feedback at annual assessment
- Involvement in hospital committees where possible e.g. Division of Medicine, Drugs and Therapeutics, Infection Control etc.
Scholarship

Objective: To develop skills in personal/professional development, teaching, educational supervision and research

Medical Council Domains of Good Professional Practice: Scholarship

KNOWLEDGE

Teaching, educational supervision and assessment
- Principles of adult learning, teaching and learning methods available and strategies
- Educational principles directing assessment methods including, formative vs. summative methods
- The value of regular appraisal / assessment in informing training process
- How to set effective educational objectives and map benefits to learner
- Design and delivery of an effective teaching event, both small and large group
- Use of appropriate technology / materials

Research, methodology and critical evaluation
- Designing and resourcing a research project
- Research methodology, valid statistical analysis, writing and publishing papers
- Ethical considerations and obtaining ethical approval
- Reviewing literature, framing questions, designing a project capable of providing an answer
- How to write results and conclusions, writing and/or presenting a paper
- How to present data in a clear, honest and critical fashion

Audit
- Basis for developing evidence-based medicine, kinds of evidence, evaluation; methodologies of clinical trials
- Sources from which useful data for audit can be obtained, the methods of collection, handling data, the audit cycle
- Means of determining best practice, preparing protocols, guidelines, evaluating their performance
- The importance of re-audit

SKILLS
- Bed-side undergraduate and post graduate teaching
- Developing and delivering lectures
- Carrying out research in an ethical and professional manner
- Performing an audit
- Presentation and writing skills – remaining impartial and objective
- Adequate preparation, timekeeping
- Using technology / materials

ASSESSMENT & LEARNING METHODS
- Health Research – An Introduction
- Effective Teaching and Supervising Skills course - recommended
- Educational Assessment Skills course - recommended
- Performing audit course
- Health Research Methods for Clinicians - recommended
Management

Objective: To understand the organisation, regulation and structures of the health services, nationally and locally, and to be competent in the use and management of information on health and health services, to develop personal effectiveness and the skills applicable to the management of staff and activities within a healthcare team.

Medical Council Domains of Good Professional Practice: Management.

KNOWLEDGE

Health service structure, management and organisation
- The administrative structure of the Irish Health Service, services provided in Ireland and their funding and how to engage with these for best results
- Department of Health, HSE and hospital management structures and systems
- The national regulatory bodies, health agencies and patient representative groups
- Understanding the need for business plans, annual hospital budgets, the relationship between the hospital and PCCC

The provision and use of information in order to regulate and improve service provision
- Methods of collecting, analysing and presenting information relevant to the health of a population and the apportionment of healthcare resources
- The common ways in which data is presented, knowing of the sources which can provide information relevant to national or to local services and publications available

Maintaining medical knowledge with a view to delivering effective clinical care
- Understanding the contribution that current, accurate knowledge can make to establishing clinical effectiveness, best practice and treatment protocols
- Knowledge of sources providing updates, literature reviews and digests

Delegation skills, empowerment and conflict management
- How to assess and develop personal effectiveness, improve negotiating, influencing and leadership skills
- How to manage time efficiently, deal with pressure and stress
- How to motivate others and operate within a multidisciplinary team

SKILLS

- Chairing, organising and participating in effective meetings
- Managing risks
- Managing time
- Delegating tasks effectively
- Managing conflicts
- Exploring, directing and pursuing a project, negotiating through the relevant departments at an appropriate level
- Ability to achieve results through an understanding of the organisation and its operation
- Ability to seek / locate information in order to define an issue needing attention e.g. to provide data relevant to a proposal for change, establishing a priority, obtaining resources
- Ability to make use of information, use IT, undertake searches and obtain aggregated data, to critically evaluate proposals for change e.g. innovative treatments, new technologies
- Ability to adjust to change, apply management, negotiating skills to manage change
- Appropriately using management techniques and seeking to improve these skills and personal effectiveness

ASSESSMENT & LEARNING METHODS

- Mastering Communication course
- Performing Audit course
- Leadership in Clinical Practice III
- Annual audit
- Consultant feedback on management and leadership skills
- Involvement in hospital committees
General Paediatrics

KNOWLEDGE

The disadvantaged child

- Community problems: racism, bullying, gender issues, traffic-safe play spaces, pollution.
- Access to health care for marginalised groups
- Local community: demographic structure, areas of deprivation, service provision and access.
- Ethnic minority health needs
- Ability to elicit accurate information about a family’s social circumstances with sensitivity.
- Awareness of potential communication problems with people of different social, ethnic and racial backgrounds – strategies to cope with these
- Appreciate the impact on the child’s ability
- Develop sensitivity on assessing the impact of being disadvantaged

Health promotion/education

- Knowledge of local and national health promotion initiatives
- Knowledge of health promotion and education in relation to injury prevention
- Knowledge of the role of the public health service.
- Liaise with health promotion departments and other groups involved in health promotion, i.e. PHN, GPs, teachers, school nurses
- Knowledge of the national policy on health gain

Immunisation

- Local and national immunisation policy: role of the local immunisation committee
- Knowledge of infectious diseases controlled by immunisation
- Knowledge of the role of immunisation co-ordinator
- Awareness of groups who do not agree with immunisations and their reasons

Behavioural Paediatrics

- Self-harm in young people and its consequences
- Immediate and longer term reactions to stress, bereavement, loss and trauma and how to manage them as part of a clinical network
- Recognition of time-limited emotional and behavioural symptoms as response to psychological or social stress
- Origin of enuresis and encopresis in children, including those with special needs
- Indirect effects of substance misuse on mental and physical health, through experimental behaviour and lifestyle, the effects on educational, emotional and behavioural development and the impact on self-care skills
- Possible impact of a sleep disorder on child and family
- The association of sleep disorder in developmental disorders such as ADHD, ASD, Learning Disability
- Principles of treatment of chronic fatigue syndrome/ME and the need to engage the family with a rehabilitative approach
- Impact of behaviour disorders on those with developmental difficulties, including specific phenotypes
Child abuse

- Knowledge of forensic medicine, especially in relation to sexual abuse
- Strategies and agencies available to help children and families cope with child abuse
- Develop sensitivity in elucidating information
- Develop understanding of the multifaceted team that may be involved
- Be aware of the importance of accurate assessments
- Knowledge of induced illness

Child protection and children in special circumstances

- The immediate and long term impact of parental factors on outcomes for children in child protection and for children looked after, for example substance misuse, domestic violence, mental health problems, chronic physical illness, learning difficulties
- Health and lifestyle factors of carers/birth parents which may impair the current and future health and wellbeing of children, for example smoking, mental health problems, learning difficulties
- The long term implications of being looked after, for example, the consequences of separation, loss, multiple moves, risk of subsequent abuse in care, disrupted education and routine health care
- Consent and parental responsibility in relation to child protection examinations and the health needs of looked-after children and the relevance of the child’s care status
- Understand the role and responsibilities of the named and designated professional for child protection and looked-after children
- Be aware of the difficulties of asylum seekers, refugees, travelling families, Forces families and young carers

Developmental Paediatrics

- Diagnosis
- Parental Diagnosis
- Management
Neurological and Developmental disorders

- **General**
  - The acute management of neurological emergencies in childhood: organising transfer to the specialist unit: safe transport
  - The inter-relationship of neurological diseases with other body systems, including growth and nutrition: feeding difficulties, reflux, aspiration
  - Paediatric assessment of the child with hearing and/or vision impairment
  - The child with regression in abilities – causes and investigation
  - Liaison with the specialist, district clinics: when to seek specialist advice

- **Diagnostic methods**
  - Appropriate use of neuroradiology and other screening modalities
  - Significance of common patterns of abnormality on the EEG
  - Of the place for special investigations e.g. nerve conduction, electromyogram, muscle biopsy, MRI
  - Neurometabolic investigations (in conjunction with the specialist laboratory)

- **Therapy**
  - Basic knowledge of aids to treatment and rehabilitation: hearing and vision aids, eating, mobility aids, orthosis, communications aids, computers etc.
  - The principles of management of behaviour disorders, including counselling and psychotherapy

- **Multidisciplinary approach**
  - Use a team approach to management of neurological and developmental disorders, and understand its advantages and limitations
  - Understand the methods used by occupational, speech and physiotherapists, nurses, specialist health visitors, play therapists, dieticians, clinical and educational psychologists, teachers and social workers in assessment, treatment and rehabilitation
  - Knowledge of the methods used by other medical specialists including paediatric neurologists, ophthalmologists, ENT surgeons, community paediatrician, child and adolescent psychiatrist, neurosurgeon
  - Planning handover to adult services

- **Appreciate the importance of early diagnosis and family support**
- **Appreciate the importance of a co-ordinated multidisciplinary assessment and management plan**

Movement problems

- Normal variations in motor development: rollers, shufflers
- Abnormal patterns of development
- Appreciate importance of multidisciplinary approach to assessment
- Enforce need for ongoing assessment of patient

Speech and language

- Knowledge of:
  - Developmental phonological problems: deviant patterns
  - Developmental language delay: differentiation
  - Role of speech therapist in disorders of language, phonocology, articulation/feeding
  - Taking a history of communication and language development
  - Role of speech therapist in assessment
  - Importance of treatment speech plan
Developmental paediatrics

- Understand the common causes and the patterns of disability
- Understanding of the tests of cognitive function
- Competence in assessing disability at different ages, in conjunction with other relevant specialists
- Acknowledge the impact on child and family inclusive of schooling

Behavioural and psychological problems

- Members and roles of the child and family counselling team
- Other health service resources available to families
- How to apply a child psychiatry perspective to normal, as well as abnormal illness behaviour, as encountered in all aspects of child health
- Understanding the concept of therapeutic interventions used and perspectives in child psychiatry, psychology and psychiatric social work
- Understand the use of behaviour questionnaires
- Knowledge and understanding of drug and alcohol abuse
- Knowledge of normal and abnormal reactions to stress, bereavement, chronic illness, death
- Knowledge of how to take a detailed child psychiatric history, including eliciting painful information sensitively and efficiently
- Make a mental state examination
- Use and understand non-verbal communication
- Define which are appropriate referrals to child psychiatry and psychology
- Learn to be sensitive to opportunities for therapeutic intervention during history taking
- Lean basic skills in supportive psychotherapy, behaviour therapy, family therapy
- Develop sensitivity to the impact of behaviour and psychological problems on relationships and family functioning
- Knowledge of Autism, ADHD, learning disabilities
- Knowledge of tests to determine brain death

Nutrition and Metabolic Disease

- Methodologies of energy expenditure
- Principles of dietary analyses: indications and procedures
- Understanding of measurement of body composition
- Nutrient turnover: obligatory nutrient losses
- Advise on health eating for normal children, including minority groups
- Prescribe parenteral nutrition
- Use and care of central venous catheters
- PEGs
- Be willing to discuss impact of disease (disease burden) on family functioning

Metabolism

- Normal physiology and biochemistry, including changes during childhood of:
- Fluid and electrolyte balance
- Acid base regulation
- Intermediary metabolism including glucose and metabolic response to fasting, lactate, ammonia, amino acids, organic acids, fatty acids
- Calcium metabolism
SKILLS

- History taking
- Take a detailed history, including eliciting painful information sensitively and efficiently
- Detailed developmental and neurological assessment
- Drawing up a management plan, taking into account continuing medical problems and attendant social, educational and psychological factors
- Work as part of a clinical network in management of childhood issues
- Reassure and advise parents and professionals on management
- Assess injuries in relation to history, developmental stage and ability of the child
- Recognise when additional expert advice is needed, for example radiology, orthopaedics, neurology, ophthalmology
- Recognise fabricated or induced illness including the significance of repeated or bizarre physical symptoms and be able to take appropriate action and be able to access help at an appropriate time
- Multidisciplinary team working
- Co-ordination of care for the critically ill child, the initial management of neurological emergencies, the principles of safe transport
- Make a mental state examination
- Differential diagnosis

ASSESSMENT & LEARNING METHODS

- Attend outpatient clinics
- Inpatient care
Emergency Medicine

KNOWLEDGE

Accident prevention
- Understanding models and strategies of prevention

Principles of emergency care
- Recognition and management of non-accidental injury
- Resuscitation: recognition of treat to life and limb
- Assessment and initial management of the seriously injured child
- Organisation of safe transport
- Paediatrician’s role in major incident planning
- System Emergencies:
  - Cardiovascular:
    - Resuscitation of infants and children
    - Recognition and management of shock (including septicaemia)
    - Supraventricular and ventricular tachycardias: bradycardias
  - CNS:
    - Coma: emergency management of raised intracranial pressure
    - Seizures: management of status epilepticus
    - Meningitis
    - Pain relief
  - Respiratory:
    - Recognition and management of acute respiratory failure
    - The choking child and upper airway obstruction
    - Inhalational injury and carbon monoxide poisoning
    - Management of severe or life-threatening asthma
- Behavioural:
  - Deliberate self-harm
  - Alcohol and other drug misuse
- Social: (see also community paediatrics)
  - Frequent attenders
  - Environmental
  - Burns and scalds: assessment: initial management: when to transfer to the burns unit
  - Electrical injury
  - Treatment of poisoning
  - Anaphylaxis
  - Musculoskeletal trauma including:
    - common childhood fractures
    - minor injuries
    - head injuries
    - the limping child
- APLS (will be expected from trainees in general paediatrics)
- Basic airway management
- Intra-osseous access
- Understanding of the importance of trauma as a cause of morbidity and mortality in childhood
- Awareness of the importance of early recognition and management of potentially life-threatening illnesses to minimise morbidity and mortality
Accidents

- Understanding of injury surveillance systems
- Liaise with A&E Department for:
  - Training of staff
  - Provision of child appropriate service
  - Setting up of information systems
  - Support for parents whose child has died suddenly
- Demonstrate an ability to liaise with General Practitioners
- Appreciate importance of Team Relationships
- Appreciate detection of sentinel events to detect NAI (non-accidental injury) and non-accidental ingestions

SKILLS

- Assessment and initial management of the seriously injured child
- Management of non-accidental injury
- Resuscitation
- Organisation of safe transport

ASSESSMENT & LEARNING METHODS

- Experience in Emergency Department
- ACLS
- APLS
Specialty Section
Management of the Immunocompromised Patients

Objective: To obtain clinical competence at consultant level in the management of immunocompromised patients including those suffering from HIV/AIDS, transplant patients and those with rheumatological or haematological/oncological disorders. Trainees must have the ability to recognize clinical manifestations in the immunocompromised patient including the ability to evaluate and take appropriate history, perform a physical examination and appropriately investigate an immunocompromised patient. In addition, trainees should be able to assess the degree of immunocompromise and demonstrate their ability to reach a specific or differential diagnosis and initiate appropriate treatment.

KNOWLEDGE

- Knowledge of the pathophysiology and clinical symptoms and signs of infection in compromised host and understand their relevance
- Pathological basis of the tests
- The cost and economy and safety of the investigations in the immunocompromised
- Awareness and knowledge of patient support groups
- Biological and iatrogenic aetiology of immunodeficiency

Specific HIV Positive Patient cohorts

- Pregnancy and conception, co-infection (HBV, HCV, TB), non-nationals, injection drug users, end stage disease and palliative care
- Spectrum of professional and complementary therapies available
- Palliative medicine, nutrition, pain relief, psychology of dying
- Discernment in balancing a specific and caring approach to the problem

SKILLS

- Assessment of level of immunodeficiency and infection risk
- Assessment of risk for and diagnose concurrent infection
- Immunodeficiency complications in specific patient cohorts – transplant patients, oncology patients, haematology patients, patients receiving biological modifiers
- Communication skills allowing patients to recognise risk activity and its management
- Ability to recognise clinical and laboratory manifestations of immunodeficiency
- Ability to explain the procedures to the patient, ensure that patient discomfort is minimised
- Elicit appropriate physical signs
- Skillfully use instruments of examination
- Consider interaction of psychological and social well being on the physical symptoms
- Establishing close rapport and understanding with laboratory staff
- Delivery of effective pain and psychological management
- Commitment to continuity of care through physical illness to death
- Multidisciplinary team working
- Prepared to work with patient support groups
- Appropriate use and interpretation of investigations e.g. microbiology, radiology
- Knowledge of resources required in investigations
- Understanding of positive and negative predictive values

ASSESSMENT & LEARNING METHODS

- Study day
- Ethics courses
Infections in the Immuno-compromised child

**KNOWLEDGE**

- Know the nomenclature, epidemiology, incubation periods, clinical presentations, pathogenesis, diagnostic tests, host response, infection control issues and treatment for the different families of micro-organisms
- Know the normal flora found in different sites of the body in infants and children as well as pathogenic flora
- Have a good understanding of methodology and limitations of different diagnostic tests for infections including culture, serology, antigen detection and molecular techniques
- Understand the principles of infection control within and without the hospital environment
- Know how to handle bio-hazardous specimens and be able to advise

**Therapies**

- Understand and be able to use appropriate antimicrobial prophylaxis in the immunocompromised child
- Understand and be able to use the full range of antimicrobial therapies for infections in the immunocompromised child
- Have knowledge and experience of the principles and practice of immunoglobulin treatment including the use of intravenous and subcutaneous treatment routes
- Understand the process involved in setting up home therapy with immunoglobulin
- Know how to manage acute anaphylaxis
- Understand the principles of donor selection, conditioning treatment and complications including infection and graft versus host disease in bone marrow transplantation

**SKILLS**

- Recognise the atypical manifestations of common infection and the range of atypical organisms causing infection in the immunocompromised child
- Be able to keep up to date with literature and be aware of the constant evolution and discovery of new pathogenic micro-organisms
- Have experience of working with the infection control team to limit the spread of infection in hospitals
- Be actively involved in the development of hospital antibiotic policies in relation to the management of children in hospital
- Be able to administer immunoglobulin by both intravenous and subcutaneous
- Be able to use C1 inhibitor concentrate for hereditary angioedema

**ASSESSMENT & LEARNING METHODS**

- Attend ID clinics
- ID MDT meetings
- Consultations/Rounds with ID service
- Attend HIV clinics (optional)
Management of Infection

Particularly complex nosocomial infections in specific patients group

Objective: Trainees must have the ability to use the following skills in the context of hospital acquired infection: clinical history taking; appropriate examination; institute relevant investigations. Reach a satisfactory management plan.

**KNOWLEDGE**

- Symptom patterns
- Pathophysiology and origin of physical signs
- Common/typical problems
- Hospital acquired infection
- Confidentiality and consent issues in the unconscious patient

**SKILLS**

- Ability to discern the relevant features of a case whether or not the history is available
- Examination skills appropriate to the clinical situation
- Rational use of laboratory facilities
- Differentiate colonization from active infection
- Working sensitivity surrounding hospital acquired infection and appropriately dealing with patients, relatives, colleagues and hospital management

**ASSESSMENT & LEARNING METHOD**

- CBD
### Understanding of Prophylactic, Pre-Emptive and Therapeutic Prescribing

**Objective:** Trainees must demonstrate competence in the use of pre-operative antibiotic prophylaxis.

#### KNOWLEDGE

- Knowledge of the microbial agents likely to cause infection in different settings and their antimicrobial susceptibilities
- Understanding the principles underlying pre-operative prophylaxis

#### SKILLS

- Use of the knowledge to apply prophylaxis in the light of local epidemiological and individual clinical issues e.g. allergy
- Understand the needs and problems of the doctors managing the patient
- Be prepared to explain the issues of prophylaxis to patients
- Multidisciplinary team working

#### ASSESSMENT & LEARNING METHODS

- Antimicrobial stewardship committee membership
The Acquisition of a Core Body of Knowledge in Fundamental Immunology and its Applications

Objectives: To provide the trainee with a core body of knowledge in fundamental Immunology to underpin clinical and laboratory practice. (Further details of fundamental Immunology are provided in Fundamental Immunological Knowledge chapter)

KNOWLEDGE

- Principles of body defence
  - Non-specific defence mechanisms
  - Innate immune response
  - Adaptive immune response (humoral/cellular)
- The acute phase response and inflammation
- Cells of myelomononocytic lineage, dendritic cells, NK cells and non-specific defence
  - Ontogeny, structure, phenotype, function and activation
  - Chemokines and migration from the blood vasculature
  - Complement and Fc receptors, adhesion molecules
  - Phagocytosis, intracellular/extracellular killing
  - Respiratory burst and secretory products
- Innate immunity
  - Role of pattern recognition receptors including toll-like receptors
  - Interferons
  - Natural opsonins
  - Effector mechanisms of innate immunity
- Complement
  - Regulation of complement activation
  - Genetics, structure, function, control in defence and in disease
  - Deficiencies
- The basis of specific immunity
  - Antigens: types, structures, processing and presentation
  - Immunogenetics: polymorphisms, generation of diversity and rearranging gene families
  - Immunoglobulins: structure, function and antigen binding
  - Immunoglobulin effector functions
  - Major Histocompatibility Complex: structure, function and regulation
  - T cell receptors: structure, function and antigen binding
- T and B Lymphocytes
  - Ontogeny, phenotype, subpopulations
  - Receptor/ligand interactions and cell activation
  - Effector functions
- Organisation of the lymphoid system
  - Primary and secondary lymphoid organs
  - Population dynamics
  - Lymphocyte migration
  - Mucosal and other compartments of the lymphoid system
- Cytokines, chemokines - origin, structure, effects, site(s) of action (receptor), metabolism regulation and gene activation
- Inflammatory mediators (e.g. leukotrienes, prostaglandins and platelet-activating factor: origin, structure, effect, sites of action
- Hypersensitivity mechanisms
  - IgE mediated: acute and late phase reactions
  - IgG, IgA-, and IgM-mediated: opsonization, complement fixation, antibody dependent, cell-mediated cytotoxicity, stimulation and blocking
  - Immune complex mediated: physiochemical properties and complex clearance
  - Cell-mediated: participating cells, effector mechanisms and granuloma formation
  - Others: natural killer cells; lymphokine-activated killer cells and cutaneous basophil hypersensitivity
- Immunoregulation
  - Tolerance: clonal selection, suppression and antigen paralysis
- Cell-cell interactions: help and suppression
- Idiotype networks: inhibition and stimulation

**Immunodeficiency**
- Genetic basis of immunodeficiency disorders
- Scientific basis of therapy of primary immunodeficiency
- New developments in diagnosis and therapy of immunodeficiency
- Pathogenesis and management of secondary immunodeficiency

**Allergic Disease**
- Pathogenesis of allergic diseases
- Scientific basis of management of allergic disorders
- New developments in therapy of allergic disease

**Mechanisms of autoimmunity**

**Transplantation immunology**
- Histocompatibility: major and minor antigens and principles of cross matching
- Graft rejection: mechanisms
- Graft-versus-host reactions and their mechanisms

**Immunotherapy**
- Drugs
- Vaccines
- Antibodies
- Recombinant molecules
- Immunosuppression
- Others

**Scientific basis of laboratory immunology**

**SKILLS**
- Integrate and apply a broad based knowledge of the scientific basis of the immune system and the mechanisms that result in disease states.
- Integrate knowledge of basic immunology with general medical skills to assess patients with potential immunological disease
- Explain putative mechanisms of action and evidence base of various immunological therapies including immunoprophylaxis
- Ability to explain the indications for the use of these therapies including explaining adverse effects associated with individual therapies
- Ability to use relevant sources of information including computerised databases and should have the skills to use information resources to keep up to date with the latest developments in this rapidly developing field.
ASSESSMENT & LEARNING METHODS

- Personal study and self-directed learning
- Literature search & critical review
- Journal club presentations
- Study days and small group seminars
- Diploma or MSc course in immunology or allergy (Desirable)
- Attendance at meetings and courses e.g.
  - Irish Association for Allergy and Immunology
  - Dublin Allergy and Immunology Group (DAIG)
  - European Society for Immunodeficiency (ESID)
- Evidence of teaching others (including feedback from students)
- Annual training assessments
Structured Clinical Training – General Aspects

Objectives: To provide the trainee with the skills and knowledge required to:

- assess and manage patients with congenital and acquired immunodeficiency - antibody and cell mediated defects, complement deficiency and neutrophil defects
- investigate and manage allergy and allergic disease

KNOWLEDGE

- Understand the immunological basis for immunodeficiency states, allergic disease and autoimmune disease
- Knowledge of investigation and the evidence base for management of immunological disorders
- Knowledge of expected natural history of the disease, expected response to treatment, likely adverse effects and required monitoring for therapies instituted

SKILLS

- History and physical examination
  - Taking an allergy focussed history
  - History & supporting information to assess drug allergy
  - Detailed recording of infection history
- Selection and interpretation of appropriate laboratory and ancillary investigations (e.g. Lung function tests, CT scans etc)
- Formulating differential diagnoses
- Prioritising therapeutic Interventions

ASSESSMENT & LEARNING METHODS

- Attendance at out-patients, day wards and consult rounds
- Detailed procedures observed (DOPS) by trainer or other professionals and judged to be satisfactory against established criteria
- Portfolio indicating evidence of learning e.g. Literature reviews, case reports, publications, evidence-based protocols, patient information sheets and standard operating procedures authored by trainee
- Written case records and presentations
- Completed clinical and laboratory audits
- Attendance at meetings of learned societies
- CBD
- Mini-CEX
- Attendance at immunology clinics
- Admissions and management in Day Ward
- Consultations
- Inpatient service
Diagnosis and Management of Immunodeficiency Disorders in Children

Objective:

**KNOWLEDGE**

- Understand the patho-physiology, including the molecular basis of immunodeficiency diseases
- Understand and be able to give advice on the appropriate use of laboratory tests for the diagnosis, treatment and prevention of primary or secondary immunodeficiency

**Knowledge of**

- Clinical features of congenital and acquired immunodeficiency syndromes
- Antibody deficiency disorders
- T-Cell/Severe Combined Immunodeficiencies
- HIV disease
- Complement deficiencies
- Phagocyte deficiencies
- Asplenia
- Genetic studies of immunodeficiency syndromes
- Assessment of secondary antibody deficiency
- Knowledge of sensitivity, precision and specificity of relevant laboratory tests
- Knowledge of the relevant methods of quality control and quality assurance
- Aware of the clinical consequences of HIV infection, its epidemiology and prevention, current ideas about treatment and techniques required for monitoring HIV-induced disease

**Therapy of Immunodeficiency Diseases**

- Knowledge of the principles governing immune reconstitution of immunodeficiency diseases, including immunoglobulin replacement therapy, bone marrow transplantation and stem cell transplantation, gene therapy, cytokine therapy
- Knowledge of evidence-based indications for Immunoglobulin replacement therapy, the methods of delivery of replacement immunoglobulin (including intravenous and subcutaneous therapy), potential hazards of this therapy

**Immunoprophylaxis**

- Knowledge of the principles of immunoprophylaxis, including potential advances in the field
**SKILLS**

- History and clinical assessment of patients with suspected primary and secondary immunodeficiency
- Provide consultative advice on the diagnosis and management of secondary immunodeficiency
- Advise clinically appropriate and cost-effective selection of laboratory tests, and interpretation of these tests in context of clinical findings.
- Requesting and interpreting specific antibody titres and vaccination responses
- Analysis of complement functional defects, lymphocyte immunophenotyping & function testing & neutrophil function tests
- Management of immunoglobulin replacement therapy
- Explain indications, process and risk of immunoglobulin therapy to patients
- Management and prophylaxis of infections in the immunosuppressed patient
- Managing complications of immunoglobulin therapy
- Organising and delivering home-care therapy.
- Ability to anticipate, prevent, detect and manage infections in immuno-compromised patients in close co-operation with other clinical colleagues (e.g. specialists in Infectious Diseases, Microbiology and Virology)
- Competent to provide consultative advice on immunisation to prevent communicable disease, including:
  - how to prevent and deal with adverse reactions
  - immunisation of patients with immunodeficiency
  - contraindications to immunisation
  - using information resources to keep up to date with this field
- Able to assess children with recurrent or unusual infections or failure-to-thrive.

**ASSESSMENT & LEARNING METHODS**

- Personal study and self-directed learning
- Literature search & critical review
- Journal club presentations
- Reference to IUIS Scientific committee – update on primary immunodeficiency diseases
- Attendance at meetings of learned societies:
- UK Primary Immunodeficiency Network resources
- Immunodeficiency clinics, including paediatric immunodeficiency clinics
- Infusion day ward/clinics
- Review of home therapy patients
- Observe home therapy training and assessment
- Case Based Discussion
- Mini-CEX
- Attend outpatient Clinics:
  - Allergy
  - Immunology
  - Infectious diseases
  - Rheumatology (desirable)
  - Auto-inflammatory (desirable)
  - Post BMT (desirable)
Immunological Procedures

Objectives: To provide the trainee with the knowledge and skills: to prescribe and administer immunoglobulin replacement therapy and educate patients on the treatment of anaphylaxis; to perform skin prick testing and interpret other related investigations.

**KNOWLEDGE**

- Administration of Immunoglobulin (IV)
- Administration of Immunoglobulin (SC)
- Skin prick testing
- Imaging: appropriate ordering and interpretation
- Protocol for systematic investigation of anaphylaxis
- Protocol for emergency management of anaphylaxis in adults and children
- Management of home therapy programmes

**SKILLS**

- Range of clinical skills as they apply to paediatrics but in particular in dealing with clinical immunological disorders.
- Specific knowledge about the appropriate investigations and therapies applied to these patients.

**ASSESSMENT & LEARNING METHODS**

- Attendance at immunodeficiency and allergy clinics and day wards
- Portfolio of cases assessed
- Attend pulmonary function department
- Optional attendance at appropriate respiratory clinics
- Attendance at home therapy training/assessment
- Involvement in preparation of policies and procedures
- Testing knowledge during tutorials conducted by trainer
- Evidence of teaching others (including feedback from students)
- DOPS
Research Methodology and Epidemiology

Objective: Trainees must demonstrate competence in research methodology including basic statistics.

KNOWLEDGE

Research
- Research methods
- Clinical trial design
- Statistical analysis and common statistical errors

Epidemiology
- Knowledge and understanding basic concepts/principles of epidemiology such as:
  - Measures of disease occurrence
  - Measures of disease frequency
  - Measures of effect
- Knowledge of different types of epidemiological study (case control, cohort)
- Knowledge of principles of surveillance
- Knowledge of the components of surveillance system from data collection to action
- Knowledge of principle of outbreak investigation – involvement in and understanding of process
- Field methods in epidemiology – undertaking an epidemiological study using appropriate instruments, questionnaires etc.
- Data analysis – ability to analyse data using basic software programmes, and using appropriate statistical tests
- Collaborative research with Departments of Public Health and/or Health Protection Surveillance Centre should be considered
- Appreciates the place of epidemiology in disease prevention and control

Mathematical models in infection
- Detailed knowledge of mathematical models
- Handling, interpretation and application of mathematical models
- Curiosity and an inquiring mind

SKILLS
- To know how to initiate appropriate clinical studies
- Research Ethics
- Experimental design, writing up
- Statistical analysis
- Appropriately assess importance of published work
- Curiosity and spirit of enquiry but healthy cynicism
- Be prepared to change practice in the light of published evidence
- Audit

ASSESSMENT & LEARNING METHODS
- Ethics
- Research Skills course
- Audit
- Publications
- Presentations at local, national or international meetings
ALLERGY (Optional Module)

Diagnosis and Management of Common Allergic Diseases in Children

Objectives: To provide the trainee with the knowledge and skills to diagnose and treat allergic diseases as they present in childhood

KNOWLEDGE

Detailed knowledge of:

- Food Allergy: IgE and non IgE mediated
- Anaphylaxis
- Urticaria/angioedema
- Allergic Rhinitis
- Allergic conjunctivitis
- Atopic dermatitis
- Introduction to Drug allergy
- Anaesthetic allergy
- Venom allergy

In particular, to develop:

- Knowledge of how to diagnose and manage food allergy and be familiar with current approaches to food allergy prevention
- Knowledge of the efficacy, limitations, indications and contraindications for allergen immunotherapy
- Knowledge of the definition, diagnosis, differential diagnosis and management of asthma, rhinitis, conjunctivitis and atopic dermatitis
- Knowledge of the mechanisms, common causes, clinical features and differential diagnosis of anaphylactic (immune-mediated and non-immune mediated) reactions
- Knowledge of the differences in the natural history of allergic diseases and approaches to allergen avoidance and treatment in children

SKILLS

- Ability to take a detailed clinical food allergy history and to order hypothesis based allergy testing to aid diagnosis
- Ability to interpret allergy tests
- Ability to advise patients and parents about avoidance measures for food allergy to explain emergency treatment plans, including self-administration of adrenaline in adults and children and to provide management plans to patients prescribed adrenaline auto-injectors (written where necessary)
- Ability to recognise risk of nutritional deficiencies in patients with food allergy
- Be familiar with the advantages and disadvantages of skin prick testing, exclusion diets, diet diaries and single and double-blind-placebo-controlled food challenge in the diagnosis of food allergy
- Ability to diagnose, assemble a differential diagnosis and provide management for mild to moderate allergic rhinoconjunctivitis and to recognise patients suitable for desensitisation
- Ability to diagnose, assemble a differential diagnosis and provide management for mild to moderate asthma and to recognise patients in need of more detailed respiratory evaluation
- Ability to diagnose, assemble a differential diagnosis and provide management for mild to moderate atopic dermatitis. Recognise gastro-intestinal disorders which may mimic food allergy and referral of patients for appropriate specialist investigation
- Be familiar with the principles of drug challenge and provide advice in relation to the use of alternate drugs in allergic patients
ASSESSMENT & LEARNING METHODS

- Attend allergy clinics
- Day ward based food and drug challenges
- Case Based Discussion
- Mini-CEX
- Personal study and self-directed learning
- Literature search & critical review
- Journal club presentations
- Study days and small group seminars
- Attendance at meetings of learned societies
- Evidence of teaching others (including feedback from students)
Minimum Requirements for Training

- These are minimum tracking requirements. This generally means that in practice, trainees will perform above the stated requirements; however, for record tracking purpose, the following figures have been allocated.
- Where the minimum requirement state “1”, there is no allocated minimum – eLogbook will automatically default to “1”

<table>
<thead>
<tr>
<th>Curriculum Requirement</th>
<th>Required/Desirable</th>
<th>Minimum Requirement</th>
<th>Reporting Period</th>
<th>Form Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section 1 - Training Plan</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personal Goals Plan (Copy of agreed Training Plan for your current training year signed by both Trainee &amp; Trainer)</td>
<td>Required</td>
<td>1</td>
<td>Training Post</td>
<td>Form 052</td>
</tr>
<tr>
<td>Personal Goals Review Form</td>
<td>Desirable</td>
<td>1</td>
<td>Training Post</td>
<td>Form 137</td>
</tr>
<tr>
<td>Weekly Timetable (Sample Weekly Timetable for Post/Clinical Attachment)</td>
<td>Required</td>
<td>1</td>
<td>Training Post</td>
<td>Form 045</td>
</tr>
<tr>
<td>On Call Rota</td>
<td>Required</td>
<td>1</td>
<td>Training Post</td>
<td>Form 064</td>
</tr>
<tr>
<td><strong>Section 2 - Training Activities</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outpatient Clinics</td>
<td>Desirable</td>
<td>20</td>
<td>Year of Training</td>
<td>Form 001</td>
</tr>
<tr>
<td>Allergy</td>
<td>Required</td>
<td>40</td>
<td>Year of Training</td>
<td>Form 001</td>
</tr>
<tr>
<td>Immunology</td>
<td>Required</td>
<td>12</td>
<td>Year of Training</td>
<td>Form 001</td>
</tr>
<tr>
<td>Infectious Diseases</td>
<td>Required</td>
<td>80</td>
<td>Year of Training</td>
<td>Form 001</td>
</tr>
<tr>
<td>Day Ward</td>
<td>Desirable</td>
<td>10</td>
<td>Year of Training</td>
<td>Form 001</td>
</tr>
<tr>
<td>Ward allergy (10 challenges)</td>
<td>Desirable</td>
<td>1</td>
<td>Year of Training</td>
<td>Form 001</td>
</tr>
<tr>
<td>Rheumatology</td>
<td>Desirable</td>
<td>1</td>
<td>Year of Training</td>
<td>Form 001</td>
</tr>
<tr>
<td>Auto-inflammatory</td>
<td>Desirable</td>
<td>1</td>
<td>Year of Training</td>
<td>Form 001</td>
</tr>
<tr>
<td>Post BMT</td>
<td>Desirable</td>
<td>1</td>
<td>Year of Training</td>
<td>Form 001</td>
</tr>
<tr>
<td>Adult immunology</td>
<td>Desirable</td>
<td>1</td>
<td>Year of Training</td>
<td>Form 001</td>
</tr>
<tr>
<td>HIV (optional)</td>
<td>Desirable</td>
<td>1</td>
<td>Year of Training</td>
<td>Form 001</td>
</tr>
<tr>
<td>Ward Rounds</td>
<td>Required</td>
<td>40</td>
<td>Year of Training</td>
<td>Form 002</td>
</tr>
<tr>
<td>Procedures/Practical Skills</td>
<td>Desirable</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 004</td>
</tr>
<tr>
<td>Allergy skin testing</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 004</td>
</tr>
<tr>
<td>Skin prick testing</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 004</td>
</tr>
<tr>
<td>Patch testing</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 004</td>
</tr>
<tr>
<td>Local anaesthetic challenge</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 004</td>
</tr>
<tr>
<td>Curriculum Requirement</td>
<td>Required/Desirable</td>
<td>Minimum Requirement</td>
<td>Reporting Period</td>
<td>Form Name</td>
</tr>
<tr>
<td>-------------------------------------------------------------</td>
<td>--------------------</td>
<td>---------------------</td>
<td>---------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Additional/Special Experience Gained</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives in Bone Marrow transplantation ward, dermatology, rheumatology</td>
<td>Desirable</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 005</td>
</tr>
<tr>
<td><strong>Lab Experience</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunology laboratory (St James)</td>
<td>Desirable</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 018</td>
</tr>
<tr>
<td><strong>Section 3 - Educational Activities</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mandatory Courses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Performing Audit (Year 1)</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 006</td>
</tr>
<tr>
<td>Mastering Communications (Year 1)</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 006</td>
</tr>
<tr>
<td>Ethics I Professionalism</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 006</td>
</tr>
<tr>
<td>Ethics II Ethics &amp; Law</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 006</td>
</tr>
<tr>
<td>Ethics III Research</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 006</td>
</tr>
<tr>
<td>Ethics IV: Paediatrics (End of Life)</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 006</td>
</tr>
<tr>
<td>HST Leadership in Clinical Practice</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 006</td>
</tr>
<tr>
<td>Health Research – An Introduction</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 006</td>
</tr>
<tr>
<td><strong>Non – Mandatory Courses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study Days (Minimum 6 attended) as per training programme</td>
<td>Required</td>
<td>6</td>
<td>Training Programme</td>
<td>Form 008</td>
</tr>
<tr>
<td><strong>In-house activities</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grand Rounds</td>
<td>Required</td>
<td>20</td>
<td>Year of Training</td>
<td>Form 011</td>
</tr>
<tr>
<td>Journal Club</td>
<td>Required</td>
<td>10</td>
<td>Year of Training</td>
<td>Form 011</td>
</tr>
<tr>
<td>MDT Meetings</td>
<td>Required</td>
<td>10</td>
<td>Year of Training</td>
<td>Form 011</td>
</tr>
<tr>
<td><strong>Examinations</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Examinations</td>
<td>Desirable</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 012</td>
</tr>
<tr>
<td><strong>Formal Teaching Activity (1 per month)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lecture</td>
<td>Required</td>
<td>10</td>
<td>Training Programme</td>
<td>Form 013</td>
</tr>
<tr>
<td>Tutorial</td>
<td>Required</td>
<td>10</td>
<td>Training Programme</td>
<td>Form 013</td>
</tr>
<tr>
<td>Bedside Teaching</td>
<td>Required</td>
<td>10</td>
<td>Training Programme</td>
<td>Form 013</td>
</tr>
<tr>
<td><strong>Research</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research</td>
<td>Desirable</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 014</td>
</tr>
<tr>
<td>Clinical Audit activities and reporting (1 per year to start or complete, Quality Improvement projects can be uploaded against audit)</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 135</td>
</tr>
<tr>
<td><strong>Publications</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Publications</td>
<td>Desirable</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 016</td>
</tr>
<tr>
<td><strong>Presentations</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td>Desirable</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 017</td>
</tr>
<tr>
<td>National/International meetings</td>
<td>Desirable</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 010</td>
</tr>
<tr>
<td>Curriculum Requirement</td>
<td>Required/Desirable</td>
<td>Minimum Requirement</td>
<td>Reporting Period</td>
<td>Form Name</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------------------</td>
<td>--------------------</td>
<td>---------------------</td>
<td>------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Irish Association of Allergy and Immunology,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dublin Allergy and Immunology Group (DAIG)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>European Society of Immunodeficiencies (ESID)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>International course – current concepts in immunology (Germany)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Additional Qualifications</td>
<td>Desirable</td>
<td></td>
<td>Training Programme</td>
<td>Form 065</td>
</tr>
<tr>
<td>Committee Attendance</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Infection Control Committee</td>
<td>Desirable</td>
<td>1</td>
<td>Training Programme</td>
<td>Form 063</td>
</tr>
<tr>
<td>Section 4 - Assessments</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CBD</td>
<td>Required</td>
<td>1</td>
<td>Year of Training</td>
<td>Form 020</td>
</tr>
<tr>
<td>Mini-CEX (At least two Mini-CEX assessments)</td>
<td>Required</td>
<td>2</td>
<td>Training Programme</td>
<td>Form 023</td>
</tr>
<tr>
<td>DOPs</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td></td>
</tr>
<tr>
<td>Skin prick testing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patch testing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local anaesthetic challenge</td>
<td>Required</td>
<td>1</td>
<td>Training Programme</td>
<td></td>
</tr>
<tr>
<td>Quarterly Assessments</td>
<td>Required</td>
<td>4</td>
<td>Year of Training</td>
<td>Form 092</td>
</tr>
<tr>
<td>End-of-Post/End-of-Year Assessments</td>
<td>Required</td>
<td>1</td>
<td>Year of Training</td>
<td>Form 092</td>
</tr>
</tbody>
</table>