



**INSTITUTE
OF MEDICINE**

ROYAL COLLEGE OF
PHYSICIANS OF IRELAND

INTERNATIONAL RESIDENCY TRAINING IN

GENERAL INTERNAL MEDICINE



This curriculum of training in General Internal Medicine was developed in 2017 by Prof John Mac Dermott and undergoes an annual review by Dr Danny Cheriyan (Consultant Gastroenterologist and Clinical Lead for Endoscopy Beaumont Hospital), and Ann O’Shaughnessy Head of Education, and by the General Internal Medicine Training Committee. The curriculum is approved by the Institute of Medicine.

Version	Date Published	Last Edited By	Version Comments
3.0	July 2022	Mariangela Esposito	Updated form names

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Introduction

This curriculum outlines The Royal College of Physicians of Ireland's approach to accreditation and certification of International Residency Training Programme (IRTP) in General Internal Medicine.

Completion of IRTP is an essential step for a career in Internal Medicine and its associated specialties. IRTP also provides a solid foundation for further training in many other fields of Medicine – for instance Pathology, Public Health Medicine, Occupational Medicine, Radiology, General Practice and Anaesthesia.

This curriculum is aimed at Senior House Officers (SHOs) and Registrars in training and their supervising trainers. It outlines the knowledge, skills and professional attributes that should be attained and developed during the IRTP. This Curriculum and the Membership to the Royal College of Physicians Ireland (MRCPI) examination syllabus are aligned and this curriculum may be used as a study aid when preparing for these examinations.

The IRTP has a number of key elements:

1. Clinical experience gained from direct patient care, supervised by senior clinicians, and based on a clinical curriculum
2. Experience of professional and ethical practice through mentorship by senior clinicians and supported by RCPI's mandatory courses.
3. An academic programme of journal clubs, grand rounds, SHO tutorials provided in training hospitals
4. Formal assessment of the knowledge and skills gained by each trainee during their clinical experience. This assessment takes place in the form of structured and workplace assessments, regular review with trainer and training leads, and the mandatory MRCPI examination

This core curriculum has been updated to ensure that these elements are completed to the satisfaction of RCPI. Accreditation and certification will focus on evaluation of a trainee's progress, via a yearly ePortfolio and a mandatory annual review, which will ensure that the necessary competencies are being achieved.

RCPI recognises that (notwithstanding the requirement to rotate through 3 of 5 core specialties/do at least 12 months of acute on call, etc.) not all trainees will have the same exposure to specialties and therefore their training experience will differ. As a result, the topics and practical skills obtained during the IRTP will reflect the individual's rotation scheme.

Overview of Curriculum

This curriculum outlines the educational content of the three-year Programme. The IRTP programme follows the educational principles of a 'spiral curriculum'. Learning builds on previous experiences and is linked to future skills obtained in higher specialty training.

The curriculum is laid out in four sections:

- The first section covers the rules and policies governing the International Residency Training Programme. Trainees should note these policies carefully.
- The second section, Teaching, Learning and Assessment Methods, describes the different methods of assessing trainees' progress through the IRTP. It is important that trainees understand the role of the IRTP ePortfolio and are familiar with the methods of assessment they will encounter on the IRTP.
- The third section lists the generic skills (e.g. communication skills) that are applicable to trainees on IRTP in every specialty.
- The fourth section is specialty-specific and lists the knowledge and skills that should be acquired in each specialty/subspecialty, as well as the relevant assessment and learning methods.

While this document sets out the curriculum for the IRTP and lists the core knowledge, skills and attitudes required at the end of the IRTP, this list is not exclusive and there will be many opportunities within the programme for trainees to acquire additional knowledge and skills over and above the core content defined here. Self-directed learning is an important part of professional training and indeed a life-long commitment to self-directed learning is a vital part of modern medical practice.

At the end of the second year, trainees who have completed IRTP successfully (including passing the MRCPI exam and completing e-portfolio and mandatory courses) should be competent to enter training at a higher specialty level.

This curriculum is also the syllabus for the MRCPI examinations and may be used as a study aid when preparing for these examinations.

IRTP: Requirements and Policies

Overview of IRTP Training in General Internal Medicine

IRTP consists of three years of training in approved Senior House Officer posts. Senior House Officer (SHO) grade is the initial training grade after Internship, and for most doctors the minimum period spent in this grade will be two years.

IRTP in General Internal Medicine is regulated and certified by RCPI and completion of this period of training is a mandatory requirement for entry into most higher specialty training programmes.

IRTP must be done in three-year rotation schemes that have been approved for training by RCPI.

IRTP General Internal Medicine trainees must pass the MRCPI examination in order to progress to the third and final year of training and to qualify for a certificate of completion of IRTP.

Although there are certain requirements that must be met for IRTP, as a stage of training it is not completely pre-defined as not all doctors will have decided on a career path by the time they enter their first SHO post. The majority of doctors will, at the end of their IRTP, want to enter specialties within Internal Medicine; however, General Practice, Radiology, Anaesthesia, Occupational Health Medicine, Public Health Medicine, Pathology, etc. may be the objectives of others.

Besides the acquisition of specific clinical skills and competencies, it is emphasised that personal development - including leadership and team working, communication and presentation skills, basic management and audit are important core components of IRTP and all other phases of training.

Important regulations and procedures relating to the IRTP programme are listed below.

Applications for Certificates of Completion should be submitted within six months after completion date.

Training Environment

All rotations must meet the criteria outlined in this curriculum and all rotations require the approval of RCPI. Regular evaluation of all rotations by RCPI is the basis for monitoring training. All posts will be expected to conform to statutory guidelines on hours and conditions of work for doctors in training.

IRTP Site Visits include review of rotations with the Regional Programme Directors, assurance of the academic training environment and feedback from trainers & trainees.

Criteria for approval of a IRTP rotation:

1. Each trainee must rotate through three out of the five core specialties listed:
 - a. Cardiology
 - b. Respiratory
 - c. Geriatric Medicine
 - d. Endocrinology
 - e. Gastroenterology
2. Each post is 3 months in duration and the IRTP Programme is 36 months in total
3. A full rotation must include:
 - a. A minimum of 6 months spent outside of the metropolitan area
 - b. A minimum of 6 months in a level 4 hospital and a level 3 or 2 hospital
4. Each trainee must spend a minimum of 12 months on-call (acute unselected take)
5. Each trainee must have an assigned trainer.
6. Each trainee should spend no more than 12 months in one specialty
7. A core academic programme must be in place at each training site. This may include journal clubs, case based small group teaching, grand rounds and MDT meetings
8. Trainees should attend specialty outpatient clinics and, when on acute medicine service, should participate in post call ward rounds

Leave from the IRTP Programme

Study leave and annual leave do not affect IRTP completion dates.

Taking time out of the IRTP programme

Once you commence Joint Residency Training, you must complete your training in a consecutive 3-year block except in exceptional circumstances. Details on special leave and how it may affect your completion date are outlined below.

Special Leave (Other than study and annual leave):

Examples of special leave: Sick leave, maternity leave, compassionate leave, Force Majeure Leave

As the IRTP consists of two years of intensive, supervised clinical training, any significant period of leave (i.e. greater than 4 weeks) taken over the course of the programme has the potential to affect the trainee's opportunities to acquire the core skills and knowledge required for satisfactory completion of the programme.

In cases where additional leave (including maternity leave) is agreed by the trainee's employer, the following conditions apply to all trainees:

≤ 4 weeks over two years: If a trainee takes special leave totalling 4 weeks or less over two years, his/her IRTP completion date is not affected.

> 4 weeks over two years: Any leave of greater than 4 weeks must be made up in blocks of 6 months' extra training.

≤ 7 months: 6 months of training in (an) approved post(s) must be completed in order to meet the requirements for IRTP certification. This applies to all trainees who take special leave totalling more than 4 weeks and less than or equal to 7 months over two years.

> 7 months: 12 months of training in (an) approved post(s) must be completed in order to meet the requirements for IRTP certification. This applies to all trainees who take special leave totalling more than 7 months and less than or equal to 13 months over two years.

> 13 months: 18 months of training in approved posts must be completed in order to meet the requirements for IRTP certification.

If an extra 6, 12 or 18 months is required: In cases where, due to leave in excess of 4 weeks, a trainee is required to complete a further period of training, the College will help to place the trainee in (a) suitable, approved training post(s).

The post(s) will be approved for IRTP in the trainee's specialty and will be counted towards the clinical training required for certification. However, please note the following:

- RCPI cannot guarantee a post(s) in the trainee's current hospital or region
- The trainee may need to wait until a suitable post becomes available.
- It may be necessary to complete a minimum of one year in a structured rotation if no suitable, stand-alone six-month post can be found

Supervising Trainers

Every IRTP post has one assigned supervising trainer, whose duties include:

- Meeting with the trainee in their first week in the post and agreeing the trainee's Personal Goals Plan
- Appraising the trainees' progress at regular intervals during the post.
- Completing the Form 092 - End of Post Assessment Form in ePortfolio at the end of the post.
- Supporting the trainee, both personally and in respect of obtaining career advice, although others may be involved in this.
- Trainers may work in teams with general consultants however only one of these will be the designated supervising consultant for mentoring and ePortfolio purposes.

IRTP ePortfolio

Trainees are required to keep a IRTP ePortfolio as a record of their progress through IRTP and to ensure that their training is valid and appropriate.

The IRTP ePortfolio should be kept up to date throughout the year. It is designed to record progress through the programme, in particular whether trainees have satisfactorily completed all requirements for training.

The IRTP ePortfolio is evidence of satisfactory completion of training and is therefore required for the issue of a IRTP Certificate of Completion.

The ePortfolio contains all relevant forms for recording information about each aspect of IRTP.

The MRCPI Examination

The knowledge sections in this curriculum make up the official syllabus for the MRCPI Part I and II exams.

In order to progress to the third and final year of training and to qualify for a IRTP certificate of completion in General Internal Medicine you will be required to pass the MRCPI examination. You are required to complete the MRCPI within the first two years of the IRTP, and there is ample opportunity to complete the MRCPI within 2 years of training as outlined below.

Each trainee should attempt Part I and Part II in Year 1

- **September, January, April**
Opportunities - SHO can attempt Membership Part I (x3)
- **March, July**
Opportunities - Successful SHO can attempt Membership Part II (x2)
- **February, June**
Opportunities - Successful SHO can attempt Part II Clinical (x2)

Each trainee should attempt Part II Clinical in Year 2

- **October, March**
Opportunities - SHO can attempt Membership Part II (x2)
- **February, June**
Opportunities - Successful SHO in October can attempt Part II Clinical (x2)

***Please visit the RCPI website www.rcpi.ie for details on MRCPI examination dates**

To increase the number of times you can sit the MRCPI examinations while on the IRTP, the College has agreed that from July 2011, doctors will be able to apply to sit Part I of the exam twelve months after obtaining their primary medical degree, i.e. as soon as they enter IRTP.

All trainees must be successful in passing Part I before they can proceed to Part II written and clinical exams. Trainees must have MRCPI if they wish to be eligible for a Specialist Registrar Post in most of the medical specialties.

The Part I examination is intended to assess knowledge of the basic clinical sciences and clinical application of those sciences necessary for the practice of general medicine. The Part I paper contains 100 single-best-answer style questions, answered in 3 hours. The syllabus from the basic specialist training (IRTP) curriculum is tested.

The Part II Written Examination consists of two papers that pose questions about the diagnosis and management of patients. Each paper composes of 75 single-best-answer format questions, with 2.5 hours allocated for each paper. The questions are selected to achieve a balanced spread across the specialties; the sciences underlying medical practice and medical diseases, and basic skills required in general medicine. The questions will be on common or important diseases in hospital medical practice. The skills will be examined across the specialties and not necessarily within any individual specialty.

Successful candidates in the Part II Written section proceed to the Part II Clinical examination. The exam consists of two long cases and five short cases.

Workplace Based and Annual Assessment

Trainees will be assessed in the workplace at intervals throughout the IRTP programme. These assessments must be recorded in the ePortfolio. Trainees are also required to attend an annual review in their hospital, at which their IRTP ePortfolio is reviewed and they are given the opportunity to provide feedback on their rotation.

Generic Components

This chapter covers the generic components which are relevant to international 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.

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
- 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 in accordance with data protection legislation 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)

- Preventing and managing near misses and adverse events.
- When and how to report a near miss or adverse event
- 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

- Safe working practice, role of procedures and protocols in optimal practice
- The importance of standardising practice through the use of checklists, and being vigilant
- Safe healthcare systems and provision of a safe working environment
- Awareness of the multiple factors involved in failures
- 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 in system failures
- The important of informing a person of authority of systems or service structures that may lead to unsafe practices which may put patients, yourself or other colleagues at risk
- Awareness of the Irish Medical Councils policy on raising concerns about safety in the environment in which you work

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
- Ethical and legal decision making skills
- Minimising errors during invasive procedures by developing and adhering to best-practice guidelines for safe surgery
- Minimising medication errors by practicing safe prescribing principles
- Ability to learn from errors and near misses to prevent future errors
- Managing errors and near-misses
- Using relevant information from complaints, incident reports, litigation and quality improvement reports in order to control risks
- Managing complaints
- Using the Open Disclosure Process Algorithm

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
- RCPI HST Leadership in Clinical Practice
- RCPI Ethics programmes
- Medical Council Guide to Professional Conduct and Ethics
- Reflective learning around ethical dilemmas encountered in clinical practice
- Quality improvement methodology course - recommended

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 of 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 notifiable infectious disease
- Understanding the increased risk of infection to patients in surgery or during an invasive procedure 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
- Personal Protective Equipment Training Course (In hospital)

Self-Care and Maintaining Well-Being

Objectives:

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-awareness including preferences and biases
- Personal psychological strengths and limitations
- Understand how personality characteristics, such as need for approval, judgemental tendencies, needs for perfection and control etc., affect relationships with patients and others
- 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
- 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-maleficence and justice
- Recognise own feelings in straightforward and complex 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

- On-going supervision
- RCPI Ethics programmes
- Wellness Matters Course (Mandatory)
- RCPI HST Leadership in Clinical Practice course

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
- How to negotiate cultural, language barriers, dealing with sensory or psychological and/or intellectual impairments and how to deal with challenging or aggressive behaviour
- Knowing how and when to break bad news
- How to communicate essential information where difficulties exist, how to appropriately utilise the assistance of interpreters, chaperones, and relatives.
- How to deal with anger and 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 a concise, written, verbal, or electronic, problem-orientated statement of facts and opinions
- The legal context of status of records and reports, of data protection confidentiality
- Freedom of Information (FOI) issues
- Understanding of the importance of legible, accessible, records to continuity of care
- Knowing when urgent contact becomes necessary and the appropriate place for verbal, telephone, electronic, or 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 of continuity of care to outcome, within and between phases of healthcare management
- The importance of completion of tasks and documentation, e.g. before handover to another team, department, specialty, including identifying outstanding issues and uncertainties
- Knowledge of the required attitudes, skills and behaviours which facilitate continuity of care including, 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 and retain attention avoiding 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 the risks of information overload
- Tailoring the communication of information to the level of understanding of the recipient
- Strategies to achieve the level of understanding necessary to gain co-operation and partnership; 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, and assistance available
- The importance of obtaining and recording accurate and full information, seeking confirmation from multiple sources
- Knowledge of how to establish facts, identify issues and respond quickly and appropriately to a complaint received

SKILLS

- Ability to appropriately elicit facts, using a mix of open and closed-ended questions
- 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 realistic objectives, identifying and prioritising outstanding problems
- Using language, literature (e.g. leaflets) diagrams, educational aids and resources appropriately
- 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 (Year 1)
- 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
- RCPI Ethics programmes
- RCPI HST Leadership in Clinical Practice Course

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 (Year 1)
- RCPI HST Leadership in Clinical Practice (Year 3 – 5)
- 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

- RCPI HST Leadership in Clinical Practice
- 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 (online) – An Introduction
- Effective Teaching and Supervising Skills course (online) - recommended
- Educational Assessment Skills course - recommended
- Performing audit (online) course –mandatory
- 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 online course
- RCPI HST Leadership in Clinical Practice
- Annual audit
- Consultant feedback on management and leadership skills
- Involvement in hospital committees

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
- Understand the clinical significance of reference ranges, positive and negative predictive value and potential risks of inappropriate tests
- The procedures for 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, and change strategies applicable to smoking, alcohol, drug abuse, and lifestyle
- 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
- An understanding of the need and appropriate use of problem-orientated discharge notes, letters, more detailed case reports, concise out-patient reports and focused reviews
- 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
- Involve patients' in solving their health problems, by providing information and education
- Availing of support provided by voluntary agencies and patient support groups, as well as expert services e.g. detoxification / psychiatric services
- Act in accordance with, up to date standards on palliative care needs assessment
- Valuing contributions of health education and disease prevention to health in a community
- Compile accurate and appropriate detailed medical notes and care reports including the 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)
- Transfer information in an appropriate and timely manner

- 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, including complex discharge
- 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 tools (e.g. ISBAR)

ASSESSMENT & LEARNING METHODS

- ACLS course
- Record of on call experience
- Mini-CEX (acute setting)
- Case Based Discussion (CBD)
- Consultant feedback

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
- Know the difference between an early and late drug allergy, and drug side-effects
- Good Clinical Practice guidelines for seeing and managing patients who are on clinical research trials
- Best practice in the pharmacological management of cancer pain
- The management of constipation in adult patients receiving palliative care

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
- Take and record an accurate drug allergy history and history of 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
- Guidance for health and social care providers - Principles of good practice in medication reconciliation (HIQA)

Specialty Section

Basic Knowledge Requirements

Objectives: to be able to describe the basic science knowledge as previously covered in the undergraduate course and apply this knowledge in training and clinical work.

Knowledge

Molecular Biology and Genetics

- Genes and genetic exchange: chromosomes, DNA structure, singly and double-stranded DNA, recombination, insertion, transpositions, transformation, transduction, conjugation, crossover, linkage, plasmids and bacteriophages, oncogenes, polymerase chain reaction
- Gene expression: transcription of DNA into RNA, protein synthesis, errors
- Human genetics
- Congenital abnormalities
- Inheritance patterns, dominant, recessive, autosomal, sex linked, penetrance, multifactorial
- Chromosomal abnormalities
- Genetic testing, genetic counselling, gene therapy

Biochemistry

- Structure and function of: carbohydrates, fats, proteins, amino acids, purine and pyrimidine nucleotides, vitamins, lipids, porphyrins, complex carbohydrates, glycoproteins, and proteoglycans
- Metabolic sequences (not detailed chemistry), regulation, disorders glycolysis, pentose phosphate pathway, tricarboxylic acid cycle, ketogenesis, electron transport and oxidative phosphorylation, gluconeogenesis, glycogenesis, fatty acid and triglyceride synthesis, glycogenolysis, ATP

Physiology

- Cells and tissues - receptors, excitation and conduction of excitable tissues, voltage and ligand gated channels, cell components, intracellular organelles, movement and intracellular transport, secretion, intercellular junctions, gap junctions, and desmosomes, connective tissue cells and matrix, muscle cells, contraction, neuromuscular junction, excitation-contraction coupling, cell hypertrophy, cell injury and necrosis, free radical injury, cell cycle, mitosis, meiosis, apoptosis
- Systems
- Homeostasis
- Ability to recognize normal health
- Ability to distinguish normal secondary responses to disease from primary disease processes
- Detail by individual system

Anatomy, structure and ultrastructure

- Aspects of topographical anatomy which enable anatomical diagnoses
- Organ position and relations, organ structure, histological structure and electron microscopic structure which enables pathologic diagnoses and classification of diseases, (ability to recognize detailed microscopic structure is not required)
- Surface anatomy examples of clinically useful knowledge of structure include: distribution of peripheral nerves, dermatomes, central nervous system pathways, distribution of coronary arterial supply, lymphatic drainage of organs, surface anatomy of lobes of the lung, location of the kidney and ureters, relations of head of pancreas
- Detail by individual system

Pathology

- Inflammation
- Mediators, vascular response to injury, inflammatory cell recruitment, bactericidal mechanisms, wound healing, haemostasis
- Neoplasia
- Histology, staging of neoplasms, hereditary neoplastic disorders, metastasis, tumor immunology, paraneoplastic features, epidemiology and prevention
- Detail by individual system

Environment

- Nutrition, hydration
- Temperature
- Occupational hazards
- Radiation, hypobaric and hyperbaric pressure
- Toxic chemicals (e.g. chlorine gas, smoke inhalation, agricultural hazards, solvents, metals, poisons)
- Allergens
- Carcinogens

Statistics and epidemiology

- Measurement
- Location and dispersion: mean, median, mode, range, standard deviation, standard error, confidence intervals, percentiles
- Distributions: normal, skew, transformed
- Associations: correlation and regression
- Critical analysis of test results: sensitivity, specificity, negative and positive predictive values, risk ratios
- Graphical presentation of data
- Study design
- Clinical trials
- Double blind, placebo controlled
- Cohort, case-control, cross-sectional, case series, longitudinal surveys
- Sampling and sample size statistical power
- Randomization, stratification
- Hypothesis testing and statistical inference
- Statistical significance, Type I, II errors, probability
- T-tests, Chi-square, analysis of variance, non-parametric tests
- Epidemiology of diseases
- Cumulative and point prevalence, incidence
- Standardised mortality rates
- Geographical, gender, racial, social class factors in disease
- Prevention of disease in individuals and populations
- Health care delivery

Assessment & Learning Methods

- MRCPI

Procedural Skills

Objective: the trainee should be able to demonstrate proficiency in performing and interpreting procedures either independently or under supervision.

Knowledge

- Knowledge of the following core procedural skills will have been acquired as pre-registration house officer (intern) before entry to the BST programme:
- Venepuncture and IV Cannulation
- Use of local anaesthetics
- Arterial puncture in an adult
- Blood cultures from peripheral and central lines
- Injections – subcutaneous intradermal, intramuscular and intravenous cannula
- Prepare and administer IV medication, Intravenous infusions
- Perform and interpret an ECG
- Perform and interpret pulmonary function peak flow and spirometry
- Urethral catheterisation
- Nasogastric tube insertion
- Airway management
- Ability to obtain a history from a patient, conduct a physical examination and provide appropriate management
- Ability to interpret physical signs and form and record a clear management plan after initial history and clinical examination
- Understand and apply principles of therapeutics and safe prescribing

Skills

- Advanced Cardiac Life Support (ACLS)
- Lumbar puncture
- Pleural aspiration under ultrasound
- Performance and interpretation of electrocardiographs (resting and exercise)
- Specialty-related skills - Additional skills may be obtained in certain specialties, e.g. knee joint aspiration, paracentesis, skin biopsy

Assessment & Learning Method

- ACLS certified
- Skills obtained in the workplace/clinical skills laboratory
- DOPS:
 - Lumbar puncture
 - Pleural aspiration under ultrasound
 - Performance and interpretation of electrocardiographs (resting and exercise)

Clinical Skills and Investigations

Objective: the trainee should be able to demonstrate an understanding of indications and interpretation of commonly used clinical tests.

Knowledge

- Knowledge of the epidemiology of disease - causation, prevalence and incidence
- Knowledge of laboratory investigations, diagnostic imaging, specialist investigations including biopsy and endoscopy.
- Appropriate use of investigations and the interpretation of results to aid diagnosis
- Problem solving, including problem identification, analysis and management by the use of appropriate resources, interpretation of laboratory results and the importance of avoiding unnecessary investigations and hospitalisation
- Commonly used laboratory tests such as:
 - Auto-antibody testing
 - Arterial blood gas analysis
 - Blood biochemistry, glucose, magnesium
 - Blood/sputum/urine culture and sensitivities
 - CSF Analysis
 - Full blood count
 - Inflammatory markers
 - Pleural and ascitic fluid analysis
 - Thyroid function tests
 - Urine analysis and microscopy
- Specialty related laboratory tests such as:
 - Joint fluid analysis
 - Coagulation screening
- Commonly used Radiology tests such as:
 - Chest, abdominal and bone X-rays
 - Joint X-Rays - knee, hip, hands, shoulder, elbow, dorsal spine, ankle
- Specialty related Radiology tests such as:
 - CT scans
 - MRI
 - Other commonly used radiology investigations
- Miscellaneous tests such as:
 - Echocardiography
 - EEGs – uses and limitations, interpretation of reports
 - Duplex ultrasound of carotid arteries
 - Documenting and interpreting simple tests of cognitive function
 - Tuberculin skin test
 - Peak flow tests
 - Full pulmonary function tests

Skills

- Ability to conduct a comprehensive systematic examination
- Ability to produce a programme of investigations
- Systematic presentation of medical history and ability to establish correct facts
- Communication skills
- Clarity and pace of presentation of the history
- Communication and sympathetic attitude with the patient
- Ability to communicate to the patient and the examiner
- Ability to communicate information with medical college and hospital e.g. ward round, specialist referral;
- Ability to communicate information with colleagues in primary care and other disciplines e.g. discharge and outpatient correspondence and information.
- Physical Examination
- Ability to conduct a comprehensive systematic examination with skilled technique enabling the correct clinical findings to be established
- Management and acumen
- Ability to produce a programme of investigations in an appropriate and logical manner, clinical management and problem solving.
- Appropriate use of investigations and interpretation of results

Assessment & Learning Methods

- Knowledge obtained in the workplace
- Mini-CEX
- MRCPI

Acute Medicine

Objective: Proficiency in the assessment and initial management of acutely ill patients who are less critically ill or injured but present as emergencies.

The following list is provided as a guide to general areas where knowledge of emergency care is expected. Those features peculiar to the ill or injured child should be understood by trainees who work in departments receiving children.

Knowledge

- Initial care of the critically ill and injured patient
- Assessment and management of all common medical emergencies, including:
 - Collapse including cardiac failure, hypovolaemia, haemorrhage, anaphylaxis, metabolic crises, overwhelming sepsis, hypothermia, electrolyte disturbances.
 - Acute dyspnoea, respiratory failure, pneumothorax.
 - Psychiatric presentations to the Emergency department: - Management of poisoning and self harm, alcohol related problems, substance misuse. delirium, disturbed or violent behaviour, interaction with acute psychiatric services.
(Assessment and appropriate referral, special referrals)
 - Acute cardiac emergencies: acute coronary syndrome, arrhythmias, assessment of chest pains.
 - Acute neurological emergencies, including acute stroke, TIA, seizure disorders, meningitis, traumatic brain injury
 - Acute ear, nose and throat problems
 - Acute rheumatological conditions
 - Assessment of elderly patients with complex presentations and multiple pathology. Appropriate discharge planning.
- Knowledge of how to obtain more detailed information about common emergencies and how to obtain help in the case of more unusual presentations.
- The special problems encountered at the scene of an incident and during transfer should be appreciated and the general principles of pre-hospital care understood.
- Knowledge of a hospital process during a major incident

Skills

- Assessment of alcohol and drug consumption
- Discharge planning: discharge summaries outpatient letters written in a timely manner.
- Communication skills

Assessment & Learning Methods

- CCU experience
- Advanced Cardiac Life Support (ACLS)
- MedicALS (optional)
- Mini CEX
- MRCPI

Cardiology and the Cardiovascular System

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common cardiac conditions under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in cardiology.

Knowledge

- Anatomy and physiology of the heart.
- Epidemiology; patho-physiology; clinical features; risk factors; primary and secondary prevention; pharmacological and non-pharmacological therapies of common cardiac conditions.
- Coronary disease including
 - Acute Coronary Syndrome
 - Prevention
- Cardiac arrhythmias
 - Acquired
 - Inherited
- Cardiac failure
 - Left Heart Failure
 - Right heart failure
 - Systolic failure
 - Diastolic failure
- Hypertension
 - Primary and secondary hypertension
- Valve disease:
 - Valvular lesions
 - Valve replacement
 - Infective Endocarditis
- Cardiomyopathies
- Congenital and acquired vascular disease
 - Aortic aneurysm and dissection
 - Diagnosis and management of Cardiac Tamponade
 - Pulmonary embolism (see also Respiratory Medicine)
 - Indications and interpretation of specialised cardiac tests.
- Rehabilitation for cardiac disease
- Pharmacological therapy of common cardiac conditions
 - Indications, management and complications of:
 - Anticoagulants
 - Knowledge of warfarin clinics
 - Anti-anginals
 - Anti-platelet therapy
 - Fibrinolytics
 - Anti-Hypertensive medications
 - Lipid-lowering medications
 - Anti-arrhythmics
 - Medications in Cardiac Failure
 - Empirical and targeted anti-microbial therapy in IE

Skills

- Cardiovascular examination
- Advanced Cardiac Life Support (ACLS)
- Resting and exercise ECG –performance and interpretation
- Non-acute cardiac events

Assessment & Learning Methods

- Mini-CEX: Chest pain assessment and appropriate referral
- DOPS: Performance and interpretation of electrocardiography
- ACLS certified
- CCU experience
- Observation:
 - Pacemaker insertion
 - Echocardiology
 - Central line insertion
- MRCPI

ROTATION SPECIFIC

(Areas required when trainee rotates through a cardiology post. These areas are not required for the general curriculum or for the MRCPI exam)

- Performing and interpretation of exercise stress tests
- Observation of echocardiogram
- Observation of pacemaker/internal cardiac defibrillator insertion
- Observation of angiography/angioplasty/cardiac stenting
- Interpretation of holter and 24 hour blood pressure monitors

Clinical Immunology

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common conditions in clinical immunology under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in clinical immunology.

Knowledge

- Physiology and pathology in immune system functions:
 - Antigen presentation, tolerance
 - Cellular immunity
 - Humeral immunity
 - Immunization

- Epidemiology; patho-physiology; clinical features; risk factors; complications: pharmacological and non-pharmacological therapies of common immunological conditions:
 - Immunodeficiency, including AIDS
 - The immunosuppressed patient
 - Hypersensitivity reactions
 - Transplantation including graft-versus-host reactions
 - Autoimmune disorders
 - Drug-induced alterations in immune responses
 - Allergy
 - Type/manifestations of allergic reaction
 - Anaphylaxis
 - Rhinitis, asthma and atopic eczema (see also Dermatology & Respiratory Medicine)
 - Food allergy
 - Drug allergy – differentiate allergy from other adverse events, and determine the
 - Cross-reactivities commonly encountered in drug allergy.
 - Autoimmunity
 - Vasculitis and connective tissue diseases
 - Auto-inflammatory and paraneoplastic syndromes.
 -
- Indications and interpretation of specialised immunological tests
- Use of plasma exchange
- Pharmacological therapy of common immunological conditions
 - Indications, management and complications of:
 - Immunosuppressant medications
 - Corticosteroids
 - Anti-inflammatories
 - Immunoglobulin products
 - Currently licensed vaccines

Skills

- Ability to take a competent allergy history, including differentiating possible allergy from chronic urticaria and angioedema.
- Clinical assessment of possible drug allergy
- Discussing risks of immunoglobulin and administering IVIG

Assessment & Learning Methods

- Mini-CEX
- MRCPI
- Immunology course (non-mandatory)

Clinical Pharmacology and Therapeutics

Objectives: On successful completion of this module the trainee should be able to:

- Demonstrate an understanding of the pharmacology of the major drug classes
- Demonstrate an understanding of the pharmacotherapy of common diseases
- Discuss the application of pharmacokinetic principles to appropriate prescribing in the individual patient
- Write a prescription clearly, legally and unambiguously
- Apply the principles of rational prescribing to his/her clinical practice

Knowledge

- Knowledge of pharmacology and therapeutics of major drug classes
- Knowledge of the management of common diseases.
- Principles underlying rational drug use:
 - Pharmacodynamics including receptor pharmacology, non-receptor mediated drug activity, dose-response relationship, efficacy, tolerance, potency, agonists, partial agonists and antagonists.
 - Pharmacokinetics including absolute and comparative bioavailability, drug transport and metabolism, definition of drug clearance, half-life, volume of distribution, therapeutic index, the cytochrome P450 family of enzymes. The importance of these concepts to choice of route, dose and dose-frequency of medications.
- Mechanisms of drug interactions
- Dose response curves
- Role of therapeutic drug monitoring.
- Safe prescribing, the concept of benefit-risk ratio of a drug, adverse drug reactions (ADRs), the role of pharmacists and Irish Medicines Board, especially in reporting ADRs.
- Clinical pharmacology as per speciality.
- Clinical toxicology including overdoses.
- Drug development – understanding phases and types of clinical trials, role of investigator and Ethics Committee (Good Clinical Practice)
- Particular issues with drug use in:
 - The elderly
 - Younger populations
 - Liver and renal disease
 - Pregnancy.
- Patient drug compliance and how to optimise adherence.
- Drugs and therapeutics committees
 - Their roles and functions
 - Economic use of medicines, pharmaceutical sponsorship
 - Evidence-based drug information – reliable independent sources

Skills

- Application of therapeutics, including drug and non-drug approaches to treatment safe, effective and economic prescribing, including patient counselling, use of formularies and evidence-based medicine, monitoring for effect and toxicity.
- Use of drugs in medical emergencies and management of drug overdose.
- Detecting and reporting adverse drug reactions
- Ability to undertake a thorough medication review
- Correct prescribing practice, including tailoring therapy to the individual patient including those in at-risk groups
- Familiarity with medicines (dosage, contra-indications, caution) for common emergencies and common medical conditions.
- Therapeutic drug monitoring
- Parenteral administration of drugs, calculation of dosage

Assessment & Learning Methods

- Ethics, safe prescribing skills and transfusion programme
- Medication Safety course (non mandatory online course)
- MRCPI

Dermatology

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common dermatological conditions under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in dermatology.

Knowledge

- Epidemiology, anatomy and pathophysiology of the skin, nails and hair.
- Clinical features; investigations; pharmacological and non-pharmacological therapies of common skin, nail and hair conditions
- Indications and interpretation of common diagnostic procedures and tests in dermatology.
- Diseases predominantly cutaneous with possible systemic associations:
 - Inflammatory skin disease:
 - Eczema (dermatitis)
 - Psoriasis,
 - Acne/rosacea
 - Urticaria,
 - Photosensitivity
 - Infection/Infestation:
 - Immunologically mediated/Collagen vascular disease
 - Drug reactions
 - Skin tumours:
 - Benign.
 - Malignant/pre-malignant
 - Prevention
- Diseases predominantly systemic with cutaneous associations:
 - Systemic malignancy
 - Metabolic and Endocrine diseases
 - Immunologically mediated/Collagen vascular disease
 - Inflammatory bowel disease
 - Lymphoreticular disorders
 - Neurocutaneous disorders

- Dermatological emergencies

Skills

- Assess and manage common dermatological conditions

Assessment & Learning Methods

- Self-directed learning
- MRCPI

ROTATION SPECIFIC

(Areas required when trainee rotates through a Dermatology post. These areas are not required for the general curriculum or for the MRCPI exam)

- Skin biopsy

Endocrinology and Diabetes

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common endocrinological conditions under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in endocrinology.

Knowledge

Endocrinology

- Basic mechanisms of hormone action in health and disease
- Epidemiology; pathophysiology; clinical features; investigation, pharmacological and non-pharmacological therapies of common endocrine conditions
- Pituitary disorders
- Parathyroid disorders
- Thyroid disorders
- Adrenal Disorders
- Endocrine causes of hypertension
- Disorders of sodium metabolism
- Disorders of calcium, phosphate and vitamin D metabolism
- Disorders of lipid metabolism
- Disorders of glucose metabolism
- Multiple Endocrine Neoplasia Syndromes
- Knowledge of:
 - Hypogonadism
 - Hirsutism
 - Paget's disease
 - Ectopic humoral syndromes
- Investigation and management of obesity
- Understanding of concepts and treatment of cardiometabolic risk
- Indications and interpretation of common tests in Endocrinology
- Pharmacological therapy of common endocrine conditions
 - Hormones and hormone analogues
 - Inhibitors and stimulators of hormone production
 - Hormone antagonists
 - Insulin
 - Oral hypoglycaemics
 - Anti-osteoporotic agents

Diabetes Mellitus

- Epidemiology; pathophysiology; clinical features; investigations, pharmacological and non-pharmacological therapies, prevention and management of complications.

Skills

- Ophthalmoscopy for vitreo-retinal disease.
- Managing insulin and oral hypoglycaemic therapy.
- Finger-prick blood glucose monitoring.
- Managing diabetic emergencies

Assessment & Learning Methods

- MDT Meetings
- Awareness of the role of dietician, clinical nurse specialist and other medical specialists
- MRCPI

ROTATION SPECIFIC

(Areas required when trainee rotates through an Endocrinology post. These areas are not required for the general curriculum or for the MRCPI exam)

- Performing and interpreting diagnostic tests for acromegaly, hypocortisolaemia, hypoglycaemia and hypopituitarism
- Managing insulin titration
- Attending foot clinics

Gastroenterology and Hepatology

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common gastroenterology and liver conditions under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in gastroenterology and hepatology.

Knowledge

Gastroenterology

- Epidemiology; anatomy, pathophysiology of the gastrointestinal system
- Clinical features; investigations; pharmacological and non-pharmacological therapies of common gastrointestinal conditions
- Indications and interpretation of common diagnostic procedures and tests
- Disorders of the upper gastrointestinal tract
 - Dyspepsia
 - Dysphagia
 - Dysmotility
 - Peptic ulcer disease
 - Helicobacter Pylori
 - Upper GI bleeding
 - Persistent vomiting
 - Acute and chronic abdominal pain
- Disorders of the lower gastrointestinal tract
 - Coeliac disease
 - Gastrointestinal infections
 - Inflammatory bowel disease
 - Malabsorption syndromes
 - Bowel obstruction
- Disorders of the exocrine pancreas
- Gastrointestinal malignancy
- Indications and interpretation of common tests in gastroenterology
- Pharmacological therapy of common gastroenterology conditions
- Indications, mechanism of action, side-effects of:
 - Antacids
 - Anti-secretory drugs
 - Anti-constipation agents
 - Anti-diarrhoeal drugs
 - Motility drugs
 - Mucosal protective agents
 - Antibiotics
 - Fluid and electrolyte replacement
 - Pancreatic replacement
 - Immunosuppressant agents
 - Nutritional supplements
 - Parenteral and enteral nutrition
- Knowledge of multidisciplinary approach to artificial feeding regimes.

Hepatology

- Epidemiology; pathophysiology; clinical features; investigations; pharmacological and non-pharmacological therapies
- Acute and Chronic liver failure
- Chronic liver Disease
 - Alcohol-related liver disease
 - Viral Hepatitis
 - Immunological liver disease
 - Metabolic liver disease
 - Drug-induced liver disease
 - Liver disease of other aetiology
- Liver cirrhosis and its complications
- Liver infection and abscess
- Malignancies of the liver and biliary system
- Disorders of the biliary tract
- Jaundice
- Pharmacological therapy of common gastroenterology conditions
- Indications, mechanism of action, side-effects of:
 - Antimicrobial therapies
 - Medications for the treatment of the complications of cirrhosis
 - Chelating agents
 - Medications to treat gallstones
 - Immunosuppressants

Skills

- Insertion of nasogastric tube.

Assessment & Learning Methods

- Appropriate interaction with multi-disciplinary team
- Managing Acute GI presentation – GI bleed, acute abdominal distention, cirrhosis add acute complications (record number in logbook)

ROTATION SPECIFIC

(Areas required when trainee rotates through a gastroenterology/hepatology post. These areas are not required for the general curriculum or for the MRCPI exam)

- Abdominal paracentesis
- Observation of endoscopy and ERCP
- Observation of abdominal ultrasound and MRCP/ERCP

Genito-Urinary Medicine

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common genitor-urinary conditions under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in genitor-urinary medicine.

Knowledge

- Anatomy and physiology of the genito-urinary system
- Sexually Transmitted Disease
 - Epidemiology; patho-physiology and prevention of common sexually transmitted infections
 - Clinical features, investigations, pharmacological and non-pharmacological therapies for common sexually transmitted infections
 - Sexual health promotion and education
- Infections of the genito-urinary system
- Disorders of the female genito-urinary system
 - Endocrine disorders/conditions
 - Polycystic ovarian syndrome
 - Hypogonadism
 - Menopause
 - Mastitis
 - Vaginal discharge
 - Genital ulcer
 - Pelvic pain
 - Malignancies
- Disorders of the male genito-urinary system
 - Urethral discharge
 - Genital ulcer
 - Orchitis
 - Epididymitis
 - Prostatitis
 - Proctitis
 - Hypogonadism
 - Erectile dysfunction
 - Benign prostatic hyperplasia
 - Gynaecomastia
 - Malignancies
- Reproductive disorders
 - Infertility
- Indications and interpretation of common tests in genito-urinary medicine
- Pharmacological therapy of common conditions in genito-urinary medicine
- Indications, mechanism of action, side-effects of:
 - Anti-microbials
 - Contraceptive agents
 - Treatments of menopause and its complications
 - Fertility medications
 - Fertility drugs, contraception, treatment of menopause, stimulators and inhibitors of lactation,
 - Androgen replacement and antagonists
 - Gonadotrophin-releasing hormone and gonadotrophin replacement
 - Medications for erectile dysfunction

Skills

- Taking sexual history

Assessment & Learning Methods

- Observation of skills
- Awareness of child protection

ROTATION SPECIFIC

(Areas required when trainee rotates through a genitor-uninary post. These areas are not required for the general curriculum or for the MRCPI exam)

- Vaginal speculum examination
- Urethral swabs
- Taking microbiology and virology anogenital samples from men and women

Geriatric Medicine

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common conditions of age-associated illness under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in Geriatric medicine.

Knowledge

- Epidemiology; pathophysiology; clinical features; epidemiology of normal physiological ageing:
- History taking and assessment, and management of age—associated illness:
 - Recurrent unexplained falls and syncope
 - Dementia and cognitive dysfunction
 - Acute confusional states (See also Acute Medicine/Psychiatry/Palliative Care/Neurology curricula)
 - Stroke , Acute stroke care, stroke thrombolysis & stroke unit care
 - Parkinson's disease;
 - Incontinence and urinary symptoms
 - Constipation
 - Gait disorders
 - Arthritis
 - Osteoporosis
 - Pressure ulcers
 - Pain
 - Psychiatric illness, including its relationship to physical illness
- Managing multiple co-morbidities in older patients
- Recognition of acute illness in older people
- Understanding the challenges of prescribing in older patients,
- Indications and interpretation of specialised tests in geriatric medicine.
- The pharmacokinetic and pharmacodynamic changes associated with ageing
- Pharmacological therapy of common geriatric conditions
- Understanding the role of different therapists (OT, physiotherapy, SLT, Social worker) in the multidisciplinary team & acute care
- Decision making capacity & legal framework around capacity, ward of court, power of attorney & care representative (See also Palliative Care)
- Psychosocial factors in the assessment and management of the elderly:
 - The importance of the functional assessment of elderly patients in terms of impairment, disability and handicap that also includes social, psychological and environmental dimensions
 - An understanding of some of the physical, psychological and social changes that occur with age and attitudes of society towards ageing, and the importance in the face of illness and frailty of promoting the patient's dignity and sense of identity
 - Awareness of ageist practice
 - Awareness of important ethical issues in caring for elderly people
 - An appreciation of the role and needs of the carers of elderly disabled people
 - Understanding the role of aids (including hearing aids) and appliances in the rehabilitation of elderly disabled people
 - Understanding the medical role in a multidisciplinary team and understanding the role of each discipline in care of the elderly
 - Rehabilitation
 - Knowledge of the community services available to support older people at home
 - Ethical Issues in the ageing patient - Enteral feeding; Enduring power of attorney; Ward of court

Skills

- Administration of functional and cognitive assessment scales
- Appreciation of the principles of consent and legal aspects to treatment when there is mental incapacity
- Discharge co-ordination and pathways available

Assessment & Learning Methods

- Number of Clinics
- MDT working
- Community services
- MRCPI
- Ethics, safe prescribing skills and transfusion programme

ROTATION SPECIFIC

(Areas required when trainee rotates through a gerontology post. These areas are not required for the general curriculum or for the MRCPI exam)

- Observation of tilt-table testing
- Interpretation of event monitors
- Evaluation in day ward
- Liaison with long-term care facilities
- Complex discharge planning
- Frailty assessment & recognition
- Knowledge of appropriate & inappropriate use of medication in older people
- Rehabilitation throughout hospital journey & the role of specialised rehabilitation services for older people
- End-of-life & palliative care issues in non-malignant conditions

Haematology

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common haematological conditions under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in haematology.

Knowledge

- Physiology of haemopoiesis and how the cellular elements of blood are made.
- Epidemiology; patho-physiology; clinical features; risk factors; primary and secondary prevention; pharmacological and non-pharmacological therapies of common haematology conditions:
- Red cell disorders -
 - Anaemias.
 - Polycythaemias -
 - Thalassaemias.
 - Haemoglobinopathies
- White cell disorders -
 - Leukaemias - acute and chronic, myeloid and lymphoid.
 - Lymphomas - Hodgkin's disease and the non - Hodgkin lymphomas.
 - Myeloproliferative disorders.
 - Myeloma and other plasma cell disorders.
- Platelet disorders -
 - Thrombocytopenia.
 - Thrombocytosis.
- Pancytopenia
 - Prevention, investigation and management
- Thrombosis
(See also Cardiology curriculum)
- Coagulation
 - Thrombophilias
 - Coagulopathies
 - Inherited and acquired
 - Reversal of over-anticoagulation
- Indications and interpretation of common haematology investigations:
- Indications for and complications of transfusion of blood and blood products
- Indications and interpretation of specialised haematology tests
- Pharmacological therapy of common haematology conditions
 - Indications, management and complications of:
 - Empirical and targeted anti-microbial therapy in neutropaenic sepsis
 - Anti-coagulants (See also cardiology curriculum)
 - Erythropoietin
 - Colony-stimulating factors
 - Immunosuppressants
 - Corticosteroids
- Knowledge of:
 - Transplantation
 - Chemotherapy
 - Febrile neutropaenia

Skills

- Blood transfusion and administration of blood products.
- Management of anticoagulation
- Appropriate referral

Assessment & Learning Methods

- DOPS: Bone marrow aspiration
- MRCPI
- Ethics, safe prescribing skills and transfusion programme

ROTATION SPECIFIC

(Areas required when trainee rotates through a haematology post. These areas are not required for the general curriculum or for the MRCPI exam)

- Observation and performance of bone marrow aspiration.
- Observation of initiation of chemotherapy
- Presentation of a haematology case
- Visit and observation in a haematology laboratory

Infectious Diseases

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage patients in Intensive Care Units under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in Intensive Care.

Knowledge

- Recognition and immediate management of acute infectious emergencies
 - Sepsis including:
 - Interpretation of Early Warning Scores (EWS)
 - Necrotising fasciitis
 - Meningitis/encephalitis
 - Cerebral malaria
- Pathogenesis & epidemiology of infection – general principles and management
- Sepsis in the immunocompromised patient
- Systemic inflammatory response syndrome
- Neutropenic sepsis
- Common bacterial infections
 - Meningitis
 - Bacterial endocarditis
 - Urinary infections
 - Food poisoning
 - Soft tissue and skin infections
- Mycobacterial infections
 - Mycobacterium (MOTT) infections
 - Tuberculosis – management and workup
- Recognition and management of common community and hospital acquired infections
 - MRSA and Clostridium-Difficile
 - Viral infection
 - Influenza
 - Herpes viruses
 - Measles
 - Hepatitis
 - Urinary tract infection
 - Skin and soft tissue infections
- Fungal infections
 - Superficial
 - Systemic
- Opportunistic infections in the immunocompromised individual
 - Primary immunodeficiency syndromes and transplantation medicine.
- Knowledge of
 - HIV infection – clinical presentation, management complications and prevention.
 - Sexually transmitted infections – assessment, diagnosis, treatment and prevention See genitourinary medicine
 - Gonorrhoea
 - Syphilis
 - Non-specific urethritis
 - Chlamydia
 - Genital ulcerative disease
 - Travel related infections - Clinical and laboratory assessment of the febrile patient returning from abroad
 - Pyrexia of unknown origin
 - Chronic fatigue syndrome
 - Antimicrobial chemotherapy
 - Antimicrobial prophylaxis
 - Antiviral, including HAART
 - Antifungals
 - Mechanisms of antimicrobial resistance and its prevention
 - Antimicrobial prophylaxis

- Principles of vaccination
- Infection control and prevention
 - Vaccination
 - Patient isolation
 - Protective clothing and hand washing
 - Antimicrobial prophylaxis
 - Antibiotic prophylaxis.
 - Immunisation.

Skills

- Infection control
 - Types of isolation
 - Indications for isolation
- Clinical assessment and management of the febrile patient.
- Laboratory investigation of patient with infection
- Management of sepsis
 - Ability to follow local antibiotic medications guidelines
 - Influenza and Nasopharyngeal Swabs
 - Liaise with public health following specific clinical diagnosis
- Tuberculin skin testing
- Interpret gram stains
- Interpret malaria smear

Assessment

- Infection control and prevention (Induction day/course, including vaccination)
- DOPS: Tuberculin skin testing.
- MRCPI

ROTATION SPECIFIC

(Areas required when trainee rotates through an ID post. These areas are not required for the general curriculum or for the MRCPI exam)

- Infection in special hosts: infections in intensive care; surgical, orthopaedic, obstetric/gynaecological infection
- Opportunistic infections in the immunocompromised individual
- Taking microbiology and virology anogenital samples from men and women.
- Up to date on emergency Infectious Diseases
- Aware of pandemic preparations
- Where possible, rotation to sexual health outpatients clinic

Intensive Care

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage patients in Intensive Care Units under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in Intensive Care.

Knowledge

- Pharmacological therapies utilised in ICU setting
- Indications, management and complications of
 - Fluids for resuscitation
 - Antibiotic drugs and antibiotic policies
 - Analgesics
 - Sedatives
 - Muscle relaxants
 - Inotropic agents
 - Anti-arrhythmic drugs, including digoxin
 - Diuretics
- Indications and limitations of currently available monitoring and assessment methods
- Modes of ventilations – NIPPV, CPAP, IPAP etc.
- Social and ethical implications of determining the need for intensive care therapy and withdrawal of same.
- Interdisciplinary Team Working

Skills

- ACLS

Assessment & Learning Methods

- MTD
- Post call rounds
- ICU

ROTATION SPECIFIC

(Areas required when trainee rotates through an ICU post. These areas are not required for the general curriculum or for the MRCPI exam)

- Vascular access
- Knowledge of indications, function and monitoring of ventilators

Medical Oncology

Objectives:

- Describe common cancers in terms of:
 - Epidemiology
 - Genetic patho-physiology
 - Clinical features
 - Risk factors
 - Primary and secondary prevention
 - Investigations and interpretation of common test in Oncology.
 - Pharmacological and non-pharmacological therapies
 - Describe the principles of cancer staging
 - Describe basic principles of RCTs
 - Perform procedures related to oncology investigation and management.
 - Observe invasive tests and management related to oncology.
 - Manage oncology emergencies
 - Perform procedures related to haematology investigation and management.
 - Observe invasive tests and management related to haematology.
 - Manage haematology emergencies

Knowledge

- Epidemiology; genetic patho-physiology; clinical features; risk factors; primary
- Secondary prevention; pharmacological and non-pharmacological therapies of common cancers.
- Principles of cancer staging
- Principles of anticancer therapies
- Indications and interpretation of common tests in Oncology
- Indications, complications and side-effects of:
 - endocrine chemotherapy,
 - cytotoxic chemotherapy,
 - radiation therapy
 - empirical and targeted anti-microbial therapy in neutropaenic sepsis (See also Haematology curriculum)
 - Blood and blood products (See also Haematology Curriculum)
 - Anticoagulants (See also Cardiology/Haematology curriculum)
 - Medications used in palliation (See also Palliative Care curriculum)
- Medical complications of treatment
- Oncological emergencies
- Basic principles of randomised clinical trials.(See also pharmacology)
- Principles of palliative therapies: the aims of treatment and the concept of balance between efficacy and toxicity/quality of life. (See also Palliative care curriculum)

Skills

- Management of oncology emergencies
- Acute management of extravasation.
- Performance of thoracocentesis, paracentesis tap and lumbar puncture

Assessment & Learning Methods

- MDT
- Appropriate Referral
- Acute emergencies in medical oncology
- MRCPI

ROTATION SPECIFIC

(Areas required when trainee rotates through an oncology post. These areas are not required for the general curriculum or for the MRCPI exam)

- Multidisciplinary management of oncology emergencies, as part of a team

Neurology

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common neurological conditions under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in neurology.

Knowledge

- Anatomy and pathophysiology of the Nervous system
- Epidemiology; patho-physiology; clinical features; risk factors; primary and secondary prevention; pharmacological and non-pharmacological therapies of common neurological conditions:
 - Cerebrovascular disorders
 - Stroke/TIA
 - Subarachnoid haemorrhage
 - Cerebral cortex disease
 - Epilepsy/ Non-epileptic seizure
 - Dementia
 - Acute confusional state See also Geriatric Medicine/Neurology/Psychiatry curricula)
 - Multiple sclerosis
 - Movement Disorders
 - Parkinson's disease and Parkinsonism
 - Tremors, chorea, myoclonus
 - Wilson's disease
 - Huntington's disease
- Brainstem and Cranial nerve disorders
- Brain tumours
- Spinal Cord disease
 - Motor Neuron Disease
 - Polio
 - Nerve root lesions
 - Radiculopathy
 - Myelopathy
- Peripheral nerve disorders
 - Mononeuropathy
 - Polyneuropathy
 - Peripheral neuropathy
- Neuromuscular junction disorders
 - Myasthenia gravis
 - Lambert-eaton syndrome
 - Myopathies
 - CNS Inflammatory disorders
 - Cerebral vasculitis
 - CNS Infections
 - Meningitis
 - Encephalitis
 - Brain abscess
 - Migraine
- Clinical evaluation of common neurological symptoms:
 - headache
 - blackouts
 - dizziness
 - confusion
 - poor memory
 - weakness
 - involuntary movements
 - pins and needles and
 - pain

- Recognition and early treatment of neurological emergencies:
 - coma
 - raised intracranial pressure
 - status epilepticus
 - infection
 - visual failure
 - spinal cord compression
 - neuromuscular respiratory failure, including Guillain-Barre syndrome
 - neoplastic disease
 - Wernicke-Korsakoff encephalopathy
 - Giant cell arteritis.
- Assessment of brain death and an appreciation of the ethical issues associated with managing brain death
- Indications and interpretation of specialised neurology tests
- Indications for neurosurgery.
- Rehabilitation
- Pharmacological therapy of common neurology conditions
 - Indications, management and complications of:
 - Anti-epileptic medications
 - Anti-Parkinson's agents
 - Acetylcholinesterase inhibitors
 - Anti-platelet therapy (See also Cardiology curriculum)
 - Anticoagulants (See also Cardiology curriculum)
 - Immunosuppressants (See also Immunology curriculum)
 - Corticosteroids (See also Immunology curriculum)
 - Empirical and targeted therapy of intracranial infections

Skills

- Lumbar puncture

Assessment & Learning Methods

- MTM
- Rehabilitation
- MRCPI Part I and II

ROTATION SPECIFIC

(Areas required when trainee rotates through a neurology post. These areas are not required for the general curriculum or for the MRCPI exam)

- Observation of EEG/EMG/nerve conduction studies
- Knowledge of rehabilitation and care paths

Occupational Medicine

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common conditions in Occupational Medicine under supervision.

Knowledge

- Taking an occupational history
- Occupational hazards to health
- Acute toxic exposures
- Chronic toxic exposures
- Distinction between hazard and risk
- Pathophysiology of occupational disease
- Occupational respiratory disease
- Occupational skin disease
- Occupational cancer
- Occupational neurological disease
- Occupational liver and kidney disease
- Musculoskeletal problems including work related upper limb disorder;
- Assessment of fitness for work:
- Medical aspects of fitness to work
- Fitness standards e.g. fitness to drive
- Infectious disease and fitness to work / infection control
- Occupational stress: self management (in line with Medical Council's domains of good practice)

Assessment & Learning Methods

- MRCPI

Palliative Medicine

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common conditions in Palliative Medicine under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in Palliative Medicine.

Knowledge

- Definition of palliative medicine (W.H.O. 2002)
- Principles of palliative medicine.
- Role of palliative medicine in malignant and non-malignant disease
- Role of palliative medicine in the early stages of a progressive disease
- Integration of palliative medicine with hospital and community based specialists
- Role of palliative medicine with hospital and community based specialists
- End of life care
- Prevention of bereavement morbidity
- Physical aspects of palliative medicine:
 - Natural history, including symptomatology of common incurable diseases.
 - Pain control, including assessment, psychological factors, treatment and monitoring.
 - Clinical features; risk factors; prevention; pharmacological and non-pharmacological therapies of common conditions in palliative care:
 - Gastrointestinal symptoms
 - mouth problems
 - anorexia
 - nausea and vomiting
 - intestinal obstruction
 - constipation
 - diarrhoea
 - dyspnoea
 - hypercalcaemia
 - incontinence
 - Mood related symptoms
 - anxiety
 - depression
 - delirium
 - malignant effusions and ascites
- Clinical features; risk factors; prevention; pharmacological and non-pharmacological therapies of Palliative care emergencies:
 - delirium
 - haemorrhage
 - acute severe pain
 - spinal cord compression
 - seizures
 - superior venal caval obstruction
- Pharmacological aspects of palliative medicine:
 - WHO classification of analgesics, dose equivalents and alternate routes of administration.
 - Anti-emetics
 - Laxatives
 - Anxiolytics
 - Sedatives
 - Anticholinergic agents
 - Steroids

- Psychosocial aspects of palliative medicine:
 - Communication with terminally ill patients, their relatives and health care professionals with respect to information transfer, therapeutic strategy
 - Quality of life issues and their relevance in late stage disease.
 - Psychosocial responses of patients and relatives in illness and bereavement.
 - The support of families in bereavement.
- Religious and cultural aspects and influences on patient and family attitudes to death and dying.
- Ethical issues in palliative care and end-of-life care
- Interdisciplinary team working

Skills

- Communication skills
- Interaction with multi-disciplinary teams including community-based Palliative Care services and GPs.

Assessment & Learning Methods

- Ethics, safe prescribing skills and transfusion Programme
- Pain Management Course (non mandatory)

ROTATION SPECIFIC

(Areas required when trainee rotates through a palliative care post. These areas are not required for the general curriculum or for the MRCPI exam)

- Enhanced communication skills and multi-disciplinary team work

Physical Symptoms in Absence of Organic Disease

Objectives: The trainee will be able to assess and appropriately investigate a patient to conclude that organic disease is unlikely, counsel sensitively, and formulate an appropriate management plan

Knowledge

- Knowledge of symptoms that commonly have a non-organic component
- Hyperventilation syndrome
- Underlying precipitants to non-organic presentations: life stresses, hypochondriacism
- Differentiate somatisation disorders from malingering
- Knowledge of the phenomenon of excessive symptoms in the context of established disease e.g. breathlessness in well controlled asthma
- Recognise the pattern of repetition that non-organic presentations can have
- Recognise the importance of the Primary Care team in assessment and management
- Recognise the cultural differences in somatoform disorders

Skills

- Adopt attitude that presentation has organic cause until otherwise proven, and assess and investigate as appropriate
- Appreciate the implications of unnecessary tests in terms of cost and iatrogenic complications
- Safely determine after appropriate work up that a patient is likely have a non-organic cause for their presentation
- Take a full history, including associated symptoms of anxiety or depression and past medical assessments
- Identify underlying psychiatric disease: psychosis, depression, or anxiety
- Formulate a management plan for acute period of care
- Respect the distress the mode of presentation may be causing
- Adopt a non-judgemental sensitive attitude when engaging in counselling a patient over the likelihood of non-organic disease
- Involve psychiatric services when appropriate

Assessment and Learning Methods

- MRCPI

Psychiatry

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common conditions in Psychiatry under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in Psychiatry.

Knowledge

- Epidemiology; patho-physiology; clinical features; risk factors; primary and secondary prevention; clinical assessment; pharmacological and non-pharmacological therapies of common psychiatry conditions:
 - Psychosis disorders
 - Substance abuse
 - Mood and anxiety disorders
 - Grief reactions
 - Acute confusional state (see also Acute medicine/Neurology/Geriatric Medicine curricula)
 - Cognitive dysfunction
 - Organic brain disease
 - Self-harm;
 - Personality disorders;
 - Physical and sexual abuse
- Indications and interpretation of common tests in psychiatry
- Pharmacological therapy of common psychiatry conditions
- Indications, management and complications of:
 - anxiolytics
 - antidepressants
 - antipsychotic agents

Skills

- Early Assessment and referral of patients with psychiatric disorders

Assessment & Learning Methods

- MRCPI

Rehabilitation Medicine

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common conditions in rehabilitation medicine under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in Rehabilitation Medicine.

Knowledge

- World Health Organisation International Classification of Functioning (WHO-ICF) and measurement of impairment, disability and societal participation
- Epidemiology; patho-physiology; clinical features; risk factors; primary and secondary prevention; pharmacological and non-pharmacological therapies of common conditions in rehabilitation medicine:
 - Brain injury
 - Spinal cord injury
 - Limb loss
 - Stroke
- Indications and interpretation of common tests in Rehabilitation Medicine
- Assessment and management of
 - sphincter dysfunction
 - autonomic dysreflexia
 - spasticity
 - challenging behaviour
 - visual and perceptual disorders
 - language disorders
 - post-traumatic and stroke epilepsy
 - psychiatric illness after major neurological injury and limb loss
 - chronic pain after major neurological injury and limb loss
 - low awareness states
 - sexual dysfunction after acquired major disability
- Methods of assessment for specialised seating, prosthetics, orthotic provision and other therapeutic aids
- Technique and application of psychometric testing
- Knowledge of the community services available to support those with disability
- Ethical Issues – autonomy, consent, cognitive capacity and substituted decision making (See also Palliative Care curriculum)
- Legal framework of driving, vehicle licensing and awarding of the primary medical certificate (PMC – visiting HSE area medical officers)
- Pre-driving and on-road driving assessment
- Vocational rehabilitation – assessment of potential and delivery of the service in the Rehabilitative Training Unit on-site
- Roles of clinical colleagues in the rehabilitation process
- Comprehensive disability assessment
- Pharmacological therapy of common conditions in rehabilitation medicine
 - Indications, management and complications of:
 - Anti-spasmodics
 - Anti-seizure agents (See also Neurology curriculum)
 - Analgesics (See also Palliative care curriculum)
 - Anti-platelet therapy (See also cardiology/haematology curriculum)
 - Anticoagulants (See also cardiology/haematology curriculum)

Skills

- Interdisciplinary working
- Judicious use of pharmacological agents for management of disability

Assessment & Learning Methods

- Attendance at small group teaching and journal club
- Case based discussion (CBD)
- Mini-CEX
- MRCPI

ROTATION SPECIFIC

(Areas required when trainee rotates through a rehabilitation medicine post. These areas are not required for the general curriculum or for the MRCPI exam)

- Comprehensive disability assessment
- Administration of functional and cognitive outcome measures
- Therapeutic botulinum toxin intramuscular injection
- Complex discharge planning and community liaison
- DOPS:
 - botulinum toxin injection
 - refill of baclofen pump
- Observed management of goal-setting conference

Renal Medicine

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common renal conditions under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in renal medicine.

Knowledge

- Anatomy and physiology of the kidneys and renal tract.
- Epidemiology; patho-physiology; clinical features; risk factors; primary and secondary prevention; pharmacological and non-pharmacological therapies of common renal conditions:
 - Hypovolaemia
 - Hypervolaemia
 - Electrolyte disorders
 - Acid-base homeostasis
 - Hypercalcaemia
- Acute kidney injury
 - Acute tubular necrosis
 - Acute Glomerulonephritis
 - Acute tubulo-interstitial disease
 - Acute vasculitis
 - Acute obstructive uropathy
 - Contrast nephropathy
- Chronic kidney disease
- Chronic glomerulonephritis
- Chronic nephrotic syndromes
- Diabetic nephropathy (including stages)
- Hypertension and Hypertensive nephropathy
- Inherited renal disease
- Analgesic nephropathy
- Reflux nephropathy
- Chronic tubulo-interstitial disease
- Urinary tract infections
- Renal stone disease
- Obstructive nephropathy
- Dialysis:
 - Available modalities
 - Indications for acute and chronic renal replacement therapy.
 - Long-term complications
- Renal transplantation:
 - Indications
 - Long term complications of renal transplantation
- Indications and interpretation of common renal tests.
- Pharmacological therapy of common renal conditions:
- Indications, management and complications of
 - Immunosuppressants
 - Anti-hypertensive agents
 - ACE inhibitors
 - Electrolyte replacement
 - Common nephrotoxic agents
 - Radiology contrast agents

Skills

- Urine microscopy

Assessment & Learning Methods

- MRCPI

ROTATION SPECIFIC

(Areas required when trainee rotates through a nephrology post. These areas are not required for the general curriculum or for the MRCPI exam)

- Observation of renal replacement therapy
- Observation of renal biopsy
- Observation and interpretation of renal pathology
- Intensive Therapy Unit attendance
- Observation of formation of dialysis access (fistula/tunnelled venous lines/peritoneal venous catheters)
- Work-up of a patient pre-transplant

Respiratory Medicine

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common respiratory conditions under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in respiratory medicine

Knowledge

- Anatomy and physiology of respiratory system.
- Epidemiology; patho-physiology; clinical features; risk factors; primary and secondary prevention; pharmacological and non-pharmacological therapies of common respiratory conditions.
- Airway diseases
- Asthma
- Chronic obstructive pulmonary disease
- Obstructive sleep apnoea
- Parenchymal disease
 - Interstitial lung disease
 - Smoking-related chronic lung disease
- Respiratory and non-respiratory sleep disorders
- Pulmonary vascular disease
 - Pulmonary embolism/infarction
 - Pulmonary hypertension
 - Pulmonary vasculitides
 - Arteriovenous malformation
- Pleural disease
 - Pleural effusion
 - Pneumothorax
 - Pleural plaques/asbestosis
 - Pleural malignancy
- Lung and thoracic malignancy
- Respiratory tract infections
 - Upper respiratory tract infections
 - Pneumonia
 - Opportunistic infections
 - Acute and chronic parenchymal infection
 - Tuberculosis,
 - Nontuberculosis mycobacterial infections
 - Fungal infections
- Chronic suppurative lung disease
 - Cystic fibrosis
 - Bronchiectasis
 - Lung abscess
 - Empyema
- Respiratory Failure
- Respiratory emergencies
- Adult Respiratory Distress Syndrome
- Occupational lung disease
- Pulmonary involvement in systemic diseases e.g. sarcoidosis
- Pulmonary Rehabilitation
- Lung transplantation
- Indications and interpretation of specialised respiratory tests
- Pharmacological therapy of common respiratory conditions
- Indications for bronchoscopy, thoracoscopy and needle biopsy

- Indications, management and complications of:
 - Bronchodilators
 - Corticosteroid preparations
 - Leukotriene antagonists
 - Oxygen (portable, long-term oxygen therapy)
 - Empirical and targeted anti-microbial therapy in pulmonary infection
 - Anti-TB agents

Skills

- Application of principles of safe oxygen therapy and non-invasive ventilation including NIPPV and CPAP
- Tuberculin skin testing
- Interpretation of arterial blood gas analysis

Assessment & Learning Methods

- MDT meetings
- Case-based discussion
 - Arterial blood gas interpretation
- MRCPI

ROTATION SPECIFIC

(Areas required when trainee rotates through a respiratory post. These areas are not required for the general curriculum or for the MRCPI exam)

- Observation and/or performance of bronchoscopy and needle biopsy
- Chest drain insertion
- Pleural aspiration under ultrasound guidance
- Observation of cardio-pulmonary function testing
- Observation and interpretation of sleep studies

Rheumatology

Objective: the trainee should have an understanding of, and demonstrate ability to assess and manage common rheumatological conditions under supervision. The trainee should be able to perform, interpret and/or observe procedures related to investigation and management in rheumatology.

Knowledge

- Epidemiology; patho-physiology; classification; clinical features; risk factors; primary and secondary prevention; pharmacological and non-pharmacological therapies of common rheumatological conditions:
 - Rheumatoid arthritis
 - Infectious arthritis
 - Osteoarthritis.
 - Seronegative spondylarthropathies
 - Systemic lupus erythematosus,
 - scleroderma (systemic sclerosis)
 - Sjogren's syndrome,
 - Poly- and dermatomyositis,
 - Vasculitis, including temporal arteritis and polymyalgia rheumatica
 - Gout, pseudogout, and chondrocalcinosis
 - Rheumatic manifestations of diseases in other medical specialties, e.g. cancer, diabetes, viral infections (including AIDS)
 - Osteoporosis, osteomalacia, and Paget's disease
 - Low back pain and soft tissue rheumatism
- The evaluation and management of acute rheumatological emergencies, including:
 - Joint pain
 - Acutely hot joint.
 - Acute low back pain.
 - Vasculitis (in association with a connective tissue disorder).
 - Temporal arteritis.
 - Cervical myelopathy in rheumatoid arthritis.
 - Fever in a patient with an underlying connective tissue disease.
- Basic knowledge of the epidemiology and socio-economic impact of musculoskeletal disorders.
- Pharmacological therapy of common rheumatologic conditions
 - Indications, management, monitoring and complications of:
 - Analgesics
 - Anti-inflammatory medications
 - Disease-modifying agents
 - Immunosuppressant agents
 - Corticosteroids
 - Biological agents
- The relative role of orthopaedic surgery,
- The workings of a multidisciplinary team (including physiotherapy, nursing, occupational therapy, social work).
- Means of evaluating and addressing disability and handicap (including the provision of aids, adaptations, and social support). Providing psychological support.

Skills

- Interpretation of joint fluid
- Interpretation of autoimmune screening

Assessment & Learning Methods

- MRCPI

ROTATION SPECIFIC

(Areas required when trainee rotates through a rheumatology post. These areas are not required for the general curriculum or for the MRCPI exam)

- Recognition of erosive arthritis on radiographic films
- Monitoring of disease modifying therapy treatments
- Knee joint aspiration

Documentation of Minimum Requirements for Training

- These are the minimum number of cases you are asked to document as part of your training. It is recommended you seek opportunities to attain a higher level of exposure as part of your self-directed learning and development of expertise.
- You should expect the demands of your post to exceed the minimum required number of cases documented for training.
- If you are having difficulty meeting a particular requirement, please contact your specialty coordinator

Curriculum Requirement	Required/Desirable	Minimum Requirement	Reporting Period	Form Name
Section 1 - Training Plan				
Personal Goals Plan (Copy of agreed Training Plan for your current training year signed by both Trainee & Trainer)	Required	1	Training Post	Personal Goals Form
On Call Rota	Required	1	Training Post	Clinical Activities
Section 2 - Training Activities				
Outpatient Clinics (1 clinic per week)				Clinics
Weekly Clinic Year 1 and 2	Required	32	Year of Training	
General medicine or Dual Specialty Clinics Year 3	Required	20	Year of Training	
Ward Rounds/Consultations				Clinical Activities
Ward rounds (minimum 2 per week)	Required	60	Year of Training	
SpR Led Ward Round (minimum 1 per week Year 3)	Required	40	Training Programme	
Post-call ward rounds/handover (average 4 per month)	Required	40	Year of Training	
Emergencies/Complicated Cases (average per month 40 acute assessments and/or admissions)				Cases
Acute abdominal emergencies	Required	1	Training Programme	
Acute ear, nose and throat problems	Required	1	Training Programme	
Acute GI Bleed	Required	8	Training Programme	
Acute respiratory emergencies/Non-invasive ventilation	Required	5	Training Programme	

Curriculum Requirement	Required/ Desirable	Minimum Requirement	Reporting Period	Form Name
Acute rheumatological conditions	Required	1	Training Programme	
Acute Stroke/TIAs	Required	5	Training Programme	
Chest pain	Required	5	Training Programme	
Collapse	Required	5	Training Programme	
Diabetic emergencies	Required	5	Training Programme	
DVT	Required	1	Training Programme	
PE	Required	1	Training Programme	
Poisoning and self harm	Required	5	Training Programme	
Psychiatric crises	Required	5	Training Programme	
Traumatic brain injury	Required	1	Training Programme	
Procedures/Practical Skills/Surgical Skills				Procedures, Skills & DOPS
Abdominal paracentesis under ultrasound	Required	2	Training Programme	
BIPAP/CPAP	Required	5	Training Programme	
Emergency DC cardioversion	Required	5	Training Programme	
Femoral venous line placement under ultrasound	Desirable	1	Training Programme	
Intercostal drain Insertion under ultrasound	Desirable	1	Training Programme	
Joint aspiration	Required	2	Training Programme	
Lumbar puncture	Required	5	Training Programme	

Curriculum Requirement	Required/Desirable	Minimum Requirement	Reporting Period	Form Name
Performance & Interpretation of ECG's (resting and exercise)	Required	10	Training Programme	
Pleural aspiration under ultrasound	Desirable	2	Training Programme	
Additional/Special Experience Gained	Desirable	1	Training Programme	Clinical Activities
Relatively Unusual Cases	Desirable	1	Training Programme	Cases
Chronic Cases/Long term care	Desirable	1	Training Programme	Cases
Section 3 - Educational Activities				
Mandatory Courses				Teaching Attendance
Advanced Cardiac Life Support (ACLS)	Required	1	Training Programme	
BST Leadership in Clinical Practice	Required	1	Training Programme	
Ethics, Prescribing Skills & Blood Transfusion for GIM	Required	1	Training Programme	
Infection control (Part of hospital induction day)	Required	1	Training Programme	
NIHSS Stroke Scale	Required	1	Training Programme	
Non – Mandatory Courses				Teaching Attendance
How to Survive Acute Take	Desirable	1	Training Programme	
An Introduction to Health Research	Desirable	1	Training Programme	
Mastering Communications	Desirable	1	Training Programme	
Performing Audit	Desirable	1	Training Programme	
Think Delirium! Write Delirium! Treat Delirium! (Online Module)	Desirable	1	Training Programme	

Curriculum Requirement	Required/ Desirable	Minimum Requirement	Reporting Period	Form Name
Other	Desirable	1	Training Programme	
In-house activities				Attendance at Hospital Based Learning
Grand rounds (minimum 1 per month)	Required	10	Year of Training	
Multidisciplinary Conference	Required	10	Year of Training	
Journal Club	Required	20	Year of Training	
Specialty meeting (one hour per week)	Required	40	Year of Training	
In-house training programme	Required	1	Training Programme	
Attend Academic Programme Scheme Tutorials	Required	9	Year of Training	
View Academic Programme Video Tutorials on TPN	Required	4	Year of Training	
Study days (Year 3)	Required	4	Year of Training	Teaching Attendance
Examinations				Examinations
MRCPI (Part I and Part II written and clinical)	Required	1	Training Programme	
Formal Teaching Activity				Delivery of Teaching
Deliver undergraduate/intern teaching (1 hour per month)	Required	10	Year of Training	
Engagement in peer to peer learning	Desirable	10	Year of Training	
Research	Desirable	1	Training Programme	Research Activities
Audit activities and Reporting (1 per year either to start or complete, Quality Improvement (QI) projects can be uploaded against audit)	Desirable	1	Training Programme	Audit and QI
Publications	Desirable	1	Year of Training	Additional Professional Experience
Presentations				Additional Professional Experience
Oral or poster presentation (e.g. Grand rounds, Journal club, National meetings)	Required	2	Year of Training	

Curriculum Requirement	Required/ Desirable	Minimum Requirement	Reporting Period	Form Name
National/International meetings (Attendance)	Desirable	1	Training Programme	Additional Professional Experience
Additional Qualifications	Desirable	1	Training Programme	Additional Professional Experience
Section 4 - Assessments				
DOPS				Procedures, Skills & DOPS
Abdominal paracentesis	Required	1	Training Programme	
BIPAP/CPAP	Required	1	Training Programme	
DC cardioversion	Required	1	Training Programme	
Femoral venous line placement under ultrasound	Desirable	1	Training Programme	
Joint aspiration	Required	1	Training Programme	
Lumbar puncture	Required	1	Training Programme	
Performance & Interpretation of ECGs (resting and Exercise)	Required	1	Training Programme	
Pleural aspiration under ultrasound	Desirable	1	Training Programme	
Additional Specialty Specific requirement depending on rotation:				
Cardiology: Observe Pacemaker insertion	Desirable	1	Training Programme	
Clinical Immunology: Immunology Course	Desirable	1	Training Programme	
Dermatology: Skin Biopsy	Desirable	1	Training Programme	
Endocrinology & Diabetes: Attendance at foot clinics	Desirable	1	Training Programme	
Gastroenterology & Hepatology: Observe Endoscopy & Acute GI Presentation	Desirable	1	Training Programme	

Curriculum Requirement	Required/ Desirable	Minimum Requirement	Reporting Period	Form Name
Haematology: Bone marrow aspiration	Desirable	1	Training Programme	
Intensive Care: Vascular access/ICU/CCU attendance	Desirable	1	Training Programme	
Medical Oncology: Acute emergencies in medical oncology	Desirable	1	Training Programme	
Palliative Medicine: Setting up continuous subcutaneous infusion (CSI)	Desirable	1	Training Programme	
Renal Medicine: Observation of dialysis	Desirable	1	Training Programme	
Respiratory/Infectious diseases: Tuberculin skin testing	Desirable	1	Training Programme	
Rheumatology: Knee joint aspiration	Desirable	1	Training Programme	
CBD (over a minimum of 2 training posts)	Required	2	Year of Training	Case Based Discussion
Mini-CEX (over a minimum 2 training posts)	Required	2	Year of Training	Mini-CEX
Quarterly Assessments / End of Post Assessments	Required	1	Training Post	Quarterly Assessment/End of Post
End of Year Evaluation	Required	1	Year of Training	End of Year Evaluation