



Tables Mapping MiCAL Content To Various Teaching Programmes And Frameworks

The following tables provide suggestions as to which areas of MiCAL could be used to support training in the teaching programmes and frameworks shown.

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Pharmacy Undergraduates Completing MPharm Degree

Programme Module	Learning Outcome	Suggested MiCAL Section
Role of pharmacist in healthcare	Understand current roles of MI staff/services in the NHS secondary care setting	Introduction To MI
Therapeutics	Understand practical / physiological considerations relating to medicines treatment	Clinical Tutorials
Communicating	Appreciate the various types of verbal questioning skills	Questioning Skills
	Appreciate the factors to include when responding to medicines related questions (verbal or written)	Answering Skills
	Appreciate the issues to consider when formulating a written response to a medicines related question	Effective Writing Skills
Research project	Understand how to use UKMi approved sources for answering questions about medicines	Resources By Clinical Topic
	Understand how to effectively search databases such as Medline and EMBASE	Searching MEDLINE And EMBASE
	Appreciate the issues to consider when reading and assessing a randomised control trial	Critical Appraisal
	Understand how to extract the issues to research (when presented with a medicines related question), research and evaluate the evidence, and formulate an appropriate answer	Enquiry Answering Scenarios

Pre-registration Pharmacists Preparing For Registration Exam

GPhC Performance Standard*	Learning Outcome	Suggested MiCAL Section
A. Personal Effectiveness		
A1.2 Manage your time effectively	Shows planning and time keeping	Enquiry Answering Scenarios <i>(using MiDatabank Trainer to complete case scenarios)</i>
A1.6 Make decisions which demonstrate clear and logical thought	Knows when an ethical dilemma occurs and steps to take Shows how an answer has been formulated based on a logical search strategy	Clinical Tutorial: Pharmacy Law And Ethics Enquiry Answering Scenarios
A2.1 Carries out tasks effectively	Shows that they have completed case scenarios in an organised manner	Enquiry Answering Scenarios
A2.3 Follow work systems correctly	Shows that enquiries on MiDatabank Trainer are completed as per local SOP	Enquiry Answering Scenarios
A2.4 Use resources effectively	Knows the limitations of various UKMi approved resources Shows how to complete an effective search of Medline and EMBASE	Resources By Clinical Topic Searching MEDLINE And EMBASE
A3.1 Recognise and define actual or potential problems	Knows what additional questions to ask in order to elicit clinically relevant back ground information	Questioning Skills
A3.3 Select the best solution, based on sound analysis and appropriate evidence	Shows how to formulate an answer based on the evidence found Shows how to assess a published trial to determine the application of the results to practice	Enquiry Answering Scenarios Critical Appraisal
A4.6 Base your actions, advice and decisions on evidence	Shows how the evidence found has informed the decisions made	Enquiry Answering Scenarios Critical Appraisal
A4.7 Obtain and process the evidence you need to meet A4.6	Knows the limitations of resources used Knows how to find appropriate information within the resources	Resources By Clinical Topic Searching MEDLINE And EMBASE Enquiry Answering Scenarios

GPhC Performance Standard*	Learning Outcome	Suggested MiCAL Section
B. Interpersonal Skills		
B1.1 Communicate effectively in English	Shows how to develop and deliver an answer by various mediums	Questioning Skills Answering The Question Effective Writing Skills
B1.4 Elicit all relevant information by the use of appropriate questions	Knows the types of questions to use in order to elicit relevant information	Questioning Skills
B1.11 Provide information and advice appropriate to the needs of the recipient(s)	Shows that an answer can be formulated and tailored to the needs of the enquirer	Answering The Question Enquiry Answering Scenarios
C. Medicines And Health		
C1.5 Perform calculations correctly	Shows an understanding of how to correctly solve commonly seen calculations	Calculation Scenarios
C2.1 Provide considered and correct answers to queries, founded on research-based evidence	Shows how to find evidence based answers for a variety of medicines related questions	Enquiry Answering Scenarios
C2.4 Actively provide information and advice to healthcare professionals	Knows how to formulate an answer that addresses the question asked and associated issues (both present and future)	Answering The Question Enquiry Answering Scenarios

*Selected from GPhC Pre-registration Manual, Performance Standards
(<https://www.pharmacyregulation.org/performance-standards>)

**Foundation Pharmacist Framework For All Foundation Pharmacists
(Including Those Studying For Postgraduate Diploma In (General) Pharmacy Practice)**

Attribute*	Indicator	Suggested MiCAL Section
Applying clinical knowledge and skills	<p>Applies evidence-based clinical knowledge to make suitable recommendations or take appropriate actions.</p> <p>Proficient in conducting patient clinical examinations and assessments, gathering information and history taking; seeks to develop own diagnostic skills.</p>	<p>Clinical Tutorials</p> <p>Critical Appraisal</p> <p>Questioning Skills</p> <p>Enquiry Answering Scenarios</p>
Person-centred care	<p>Keeps the individual at the centre of their approach to care at all times.</p> <p>Works in partnership with individuals; viewing each individual receiving care as unique, seeking to understand the physical, psychological and social aspects for that person.</p> <p>Demonstrates empathy; seeking to understand a situation from the perspective of each individual.</p> <p>Engages on an individual basis with the person receiving care, remains open to what an individual might share.</p>	<p>Questioning Skills</p> <p>Enquiry Answering Scenarios</p>
Evidence-informed decision-making	<p>Critically appraises appropriate information to make a decision in an efficient and systematic manner; adopts evidence informed solutions.</p> <p>Demonstrates awareness of where to seek appropriate information to solve problems and make decisions.</p> <p>Asks the appropriate questions when engaging with other healthcare professionals to support own decision-making process.</p> <p>Demonstrates an understanding that data can support improving care; values the importance of the skills required for the interpretation, analysis and the effective use of data within clinical practice; considers how to use data to improve the outcomes for individuals</p>	<p>Questioning Skills</p> <p>Answering The Question</p> <p>Resources By Clinical Topic</p> <p>Searching MEDLINE And EMBASE</p> <p>Enquiry Answering Scenarios</p>

Attribute*	Indicator	Suggested MiCAL Section
Collaborative working	Seeks feedback from colleagues where appropriate; is receptive to information or advice given to them by others.	Enquiry Answering Scenarios
Communication and consultation skills	<p>Assimilates and communicates information clearly and calmly through different mediums, including face to face, written and virtual; tailors messages depending on the audience; is able to respond appropriately to questions.</p> <p>Demonstrates active listening skills, identifies non-verbal cues in others.</p> <p>Uses effective questioning when working with individuals receiving care or other healthcare professionals.</p>	<p>Effective Writing Skills</p> <p>Questioning Skills</p> <p>Answering The Question</p>
Professional accountability	<p>Effectively identifies and raises concerns regarding patient safety and risk management.</p> <p>Values the quality and safety of the use of medicines as of the utmost importance; seeks to improve this routinely.</p> <p>Works within ethical guidelines and legal frameworks, including consent and confidentiality; seeks to gain permission from the individual before accessing confidential records where necessary.</p>	<p>Patient Safety (Including IRMIS)</p> <p>Clinical Tutorial: Pharmacy Law And Ethics</p> <p>Resources By Clinical Topic (Legal And Ethical)</p> <p>Enquiry Answering Scenarios</p>

*Selected from "The RPS Foundation Pharmacist Framework 2019"
<https://www.rpharms.com/resources/frameworks/foundation-pharmacy-framework-fpf>

Advanced Pharmacy Framework For All Experienced Pharmacy Practitioners And Pharmacists (Wanting To Advance Their Practice)

Cluster*	Descriptor	Example MiCAL Section
Expert Professional Practice	<p>Demonstrates ability to use skills in a range of routine situations requiring analysis or comparison of a range of options.</p> <p>Recognises priorities when problem-solving and identifies deviations from the normal pattern.</p>	<p>Enquiry Answering Scenarios</p> <p>Questioning Skills</p> <p>Answering The Question</p>
Collaborative Working Relationships	<p>Demonstrates use of appropriate communication to gain the co-operation of relevant stakeholders (including patients, senior and peer colleagues, and other professionals where possible).</p> <p>Demonstrates ability to communicate where the content of the discussion is explicitly defined.</p>	<p>Questioning Skills</p> <p>Effective Writing Skills</p>
Leadership	<p>Demonstrates understanding of the pharmacy role in governance.</p> <p>Demonstrates ability to motivate self to achieve goals.</p>	<p>Patient Safety (Including IRMIS)</p> <p>Self-directed learning on MiCAL</p>
Management	Demonstrates understanding of the process for effective resource utilisation.	<p>Resources By Clinical Topic</p> <p>Searching MEDLINE And EMBASE</p>
Education, Training and Development	Demonstrates self-development through continuous professional development activity.	<p>Self-directed learning on MiCAL</p> <p>MCQs and test yourself assessments</p>
Research and Evaluation	Demonstrates ability to critically evaluate and review literature.	<p>Critical Appraisal</p> <p>Searching MEDLINE And EMBASE</p> <p>Resources By Clinical Topic</p>

*Selected from Royal Pharmaceutical Society Advanced pharmacy Framework
<https://www.rpharms.com/resources/frameworks/advanced-pharmacy-framework-apf>

**Pharmacist Independent Prescribing Programme For All Pharmacists
Studying At A GPhC Approved University**

Domain Of Study	Example Learning Outcomes	Suggested MiCAL Section
Person-centred care	<p>Recognise the psychological and physical impact of prescribing decisions on people</p> <p>Demonstrate appropriate history-taking techniques through effective consultation skills</p>	<p>Resources By Clinical Topic (Legal And Ethical)</p> <p>Clinical Tutorial: Pharmacy Law And Ethics</p> <p>Questioning Skills</p> <p>Answering The Question</p> <p>Enquiry Answering Scenarios</p>
Professionalism	<p>Reflect on and develop their own prescribing practice to ensure it represents current best practice</p>	<p>Questioning Skills</p> <p>Answering The Question</p>
Professional knowledge and skills	<p>Apply evidence-based decision-making in all aspects of prescribing</p> <p>Demonstrate the application of pharmacology in relation to their own prescribing practice</p> <p>Apply the principles of effective monitoring and management to improve patient outcomes</p> <p>Recognise and manage prescribing and medication errors</p>	<p>Resources By Clinical Topic (including adverse effects)</p> <p>Searching Medline and EMBASE</p> <p>Critical Appraisal</p> <p>Clinical Tutorial: Drugs And Adverse Effects</p> <p>Clinical Tutorial: Drug Interactions</p> <p>Enquiry Answering Scenarios</p>
Collaboration	<p>Demonstrate appropriate consultation skills to get information from individuals who are either unaware of or guarded about their health needs, to inform safe prescribing</p> <p>Recognise when to seek guidance from another member of the healthcare team or an appropriate authority</p>	<p>Questioning Skills</p> <p>Enquiry Answering Scenarios</p>

*Selected from GPhC's "Standards for the education and training of pharmacist independent prescribers January 2019"
(available from <https://www.pharmacyregulation.org/education/pharmacist-independent-prescriber>)

**National Medicines Information Training Course (NMITC)
For Specialist Pharmacists And Accredited Technicians Permanently Employed
In NHS Medicines Information Centres**

Examples Of Types Of Topics*	Suggested MiCAL Section
Quality and risk management	Patient Safety (Including IRMIS)
Legal and ethical	Clinical Topic: Pharmacy Law And Ethics Resources By Clinical Topic (Legal And Ethical)
MiDatabank (using it and documenting and answering enquiries)	Questioning Skills Answering The Question Enquiry Answering Scenarios <i>(various case scenarios and model answers)</i> Effective Writing Skills
Literature searching - Effective use of appropriate resources - Using MEDLINE and EMBASE	Resources By Clinical Topic Searching MEDLINE and EMBASE
Critical appraisal	Critical Appraisal