

Nordic Social Pharmacy and Health Services Research Conference & The Nordic Networking Group for Clinical Pharmacy June 3–5, 2015 Dorpat Conference Centre, Tartu, Estonia

# Pharmacy Education to Support Clinical Pharmacy Practice

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University established 1632











University established 1582





## Content

- What is clinical pharmacy practice
- Education and training developments
  - Example of experiential curriculum design
  - Foundation training
  - MSc Advanced Clinical Pharmacy Practice
  - Pharmacist Independent Prescribing
- Academic Practice partnerships
- Training for Trainers
- Continuing Professional Development (CPD)



## Pharmaceutical needs



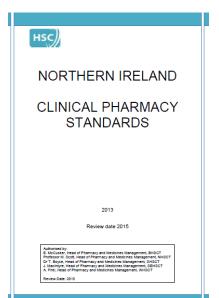
- Appropriate prescribing
- Support for patients to improve medicines adherence
- Chronic disease management
- Polypharmacy





# CLINICAL PHARMACY IN THE HOSPITAL PHARMACEUTICAL SERVICE: A FRAMEWORK FOR PRACTICE

## CLINICAL PHARMACY PRACTICE IN PRIMARY CARE





JOURNAL OF PHARMACY PRACTICE AND RESEARCH Volume 43, No. 2, June 2013 – Supplement

SHPA Standards of Practice for Clinical Pharmacy Services

### ROYAL PHARMACEUTICAL SOCIETY

Professional Standards for Hospital Pharmacy Services

Optimising Patient
Outcomes from Medicines
England, Scotland and Wales

Relevant to providers of pharmacy services in or to acute, mental health, private, community service, prison, hospice and ambulance settings

Version 2 | July 2014

## The European Statements of Hospital Pharmacy

The European Statements of Hospital Pharmaco

#### Section 4: Clinical Pharmacy Services

- 4.1 Hospital pharmacists should be involved in all patient care settings to prospectively influence collaborative, multidisciplinary therapeutic decision-making; they should play a full part in decision making including advising, implementing and monitoring medication changes in full partnership with patients, carers and other health care professionals.
- 4.2 All prescriptions should be reviewed and validated as soon as possible by a hospital pharmacist. Whenever the clinical situation allows, this review should take place prior to the supply and administration of medicines.
- 4.3 Hospital pharmacists should have access to the patients' health record. Their clinical interventions should be documented in the patients' health record and analysed to inform quality improvement interventions.
- 4.4 All the medicines used by patients should be entered on the patient's medical record and reconciled by the hospital pharmacist on admission. Hospital pharmacists should assess the appropriateness of all patients' medicines, including herbal and dietary supplements.
- 4.5 Hospital pharmacists should promote seamless care by contributing to transfer of information about medicines whenever patients move between and within healthcare settings.
- 4.6 Hospital pharmacists, as an integral part of all patient care teams, should ensure that patients and carers are offered information about their clinical management options, and especially about the use of their medicines, in terms they can understand.
- 4.7 Hospital pharmacists should inform, educate and advise patients, carers and other health care professionals when medicines are used outside of their marketing authorisation.
- 4.8 Clinical pharmacy services should continuously evolve to optimise patients' outcomes.

### Clinical Pharmacy Practice:

Patients are reviewed and medicines assessed to achieve optimum outcome Assessment, care plan, follow up evaluation

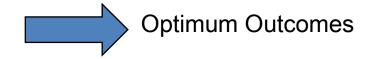
### Clinical medication review

- Patient assessment/needs
  - Clinical data interpretation, medical/drug history, consultation
- Consideration and discussion of options
  - Needs/benefits/risks
- Collaborative decision making for therapeutic plan
  - Prescriber/patient/goals
- Consultation and communication
  - Patient/carer/other professionals
- Patient monitoring and follow up
  - Outcomes/adherence assessment



## Clinical pharmacy practice - applied to individual patients?

#### **Effective Treatments**



- Quality of prescription
- Patient adherence
- Monitoring and follow up

### Clinical pharmacy requires: Knowledge of:

- disease processes
- medical terminology
- therapeutics
- pharmaceutical products

#### Skills in:

- assessment and interpretation of clinical data including laboratory findings
- communication and consultation
- provision of medicines information
- critical thinking and decision making
- pharmaceutical care planning including monitoring of treatment



#### **Prescription for Excellence**

A Vision and Action Plan for the right pharmaceutical care through integrated partnerships and innovation

September 2013 Scottish Governmen



www.scotland.gov.uk/Publications/2013/09/3025

"all patients, regardless of their age and setting of care, will receive high quality pharmaceutical care using the clinical skills of the pharmacist to their full potential"

"Patients should receive high quality pharmaceutical care from clinical pharmacist independent prescribers....all pharmacists providing NHS clinical care in the community will have to be independent prescribers working in partnerships with medical practitioners"

"Pharmacists in secondary care and in primary care work together in an integrated way which would be supported by a common clinical pharmacy career structure."

## Progress.....

- What is clinical pharmacy practice
- Education and training developments
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## **Education & Training Developments**

- MPharm & Pre-Registration Training (5 years)
  - GPhC Standards
  - Integrated experiential learning
  - Interprofessional learning
- Vocational training (foundation level)
  - Competency based learning in the workplace
- Postgraduate degree
  - MSc Clinical Pharmacy
  - MSc Advanced Clinical Pharmacy Practice
- Pharmacist prescribing
  - Independent Prescribing Certificate
  - Consultation & clinical assessment skills
  - Teach and Treat

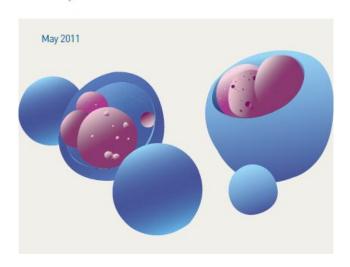


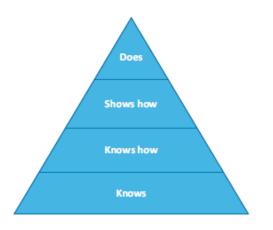




### Future pharmacists

## Standards for the initial education and training of pharmacists





Source: Miller, G.E. (1990) The assessment of clinical skills/competence/performance. Aca Med 65: 563–7.

- Level 1 Knows. Knowledge that may be applied in the future to demonstrate competence. Assessments may include essays, oral examinations and multiple choice questions.
- Level 2 Knows how. Context-based tests knows how to use knowledge and skills. Assessments may include essays, oral examinations, multiple choice questions and laboratory books.
- Level 3 Shows how. A student or trainee is able to demonstrate
  that they can perform in a simulated environment or in real life.
  Assessments may include objective structured clinical examinations
  (OSCEs), simulated patient assessments, designing, conducting and
  reporting an experiment, dispensing tests and taking a patient history.
- Level 4 Does. Acting independently and consistently in the complex situation of an everyday or familiar context. Evidence for this level is showing in this context that one is able to demonstrate the outcomes in a complex everyday situation repeatedly and reliably. Assessments may include OSCEs, taking a patient history and a trainee demonstrating things in the pre-registration performance standards repeatedly, accurately and safely. The trainee needs to be observed doing these things by their tutor and others.

# Shows how Knows how

Source: Miller, G.E. (1990) The assessment of clinical skills/competence/performance. Aca Med 65: 563–7.

Knows

10.2.2 Validating therapeutic approaches and supplying prescribed and over-the-counter medicines

Out	tcomes	MPharm	Pre-reg*
a.	Identify and employ the appropriate diagnostic or physiological testing techniques in order to promote health	Knows how	Shows how
b.	Identify inappropriate health behaviours and recommend suitable approaches to interventions	Shows how	Does
C.	Instruct patients in the safe and effective use of their medicines and devices	Shows how	Does
d.	Analyse prescriptions for validity and clarity	Shows how	Does
e.	Clinically evaluate the appropriateness of prescribed medicines	Shows how	Does
f.	Provide, monitor and modify prescribed treatment to maximise health outcomes	Shows how	Does
g.	Communicate with patients about their prescribed treatment	Shows how	Does

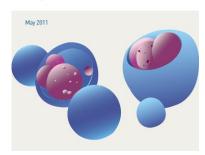
10.7 The initial education and training of pharmacists is extensive and rigorous. After five years it is realistic to expect a person to be competent but not yet proficient or expert.

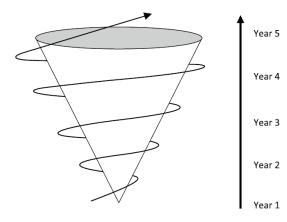
Competent Proficient Expert



#### Future pharmacists

Standards for the initial education and training of pharmacists





Source: Harden, R.M. and Stamper, N. (1999) What is a spiral curriculum? *Medical Teacher* 21: 141–3.

of working with patients, carers and other healthcare professionals.

Practical experience should increase year on year. We are not suggesting that off-site placement visits are the only way to achieve this. Schools should articulate their strategy for meeting this criterion, which may include off-site placement visits, using patients, carers and other healthcare professionals in-class, and simulations.

### Example of ½ day hospital activity – Year 2



Activity	Theme	Learning outcome
1	Patient journey	Describe the processes which are undertaken during the
	and	patient journey from hospital admission to discharge to
	medications	ensure the accurate, safe and timely prescription and
		administration of medicines
2	Patient	Describe their observation of a patient counselling session
	counselling	where important points are emphasised about medicines.
3	Antimicrobial	Explain the rationale for antimicrobial treatment prescribed
	treatment	for a hospital patient
4	Formulary	Describe the rationale for a local formulary, determine if a
	-	prescription adheres or not and propose actions to ensure
		adherence where possible

University of Strathclyde

Strathclyde Institute of Pharmacy & Biomedical Sciences

MPharm Experiential Learning Handbook





## **Experiential learning**

- Students learn best from their own experiences
- Experiences can be enjoyable and motivating
- Contextualises application of knowledge
- Allows development of skills and professionalism
- Exposes students to real healthcare environment
  - Role model practitioners
  - Other healthcare professionals
  - Patients keen to contribute

# Development of competency beyond registration (Foundation)

1.	Patient and Pharmaceutical Care	2.	Profe Practi	essional ce	3.	Personal Practice	4.		gement nisation	and	
1.1	Patient Consultation	2.1 Professionalism		3.1	Gathering Information	4.1	Clinica	al Govern	ance		
1.2	Need for the Medicine	2.2 Organisation		3.2	Knowledge	4.2	Service Provision				
1.3	Provision of Medicine	2.3	Effect Com	ive munication Skills	3.3	Analysing Information	4.3	Organ	isations		
1.4	Selection of the Medicine	2.4	Team	Work	3.4	Providing Information	4.4	Budge Reimb	t and oursemen	t	
1.5	Medicine Specific Issues	2.5	Educa	ation and Training	3.5	Follow up	4.5	Procu	rement		
1.6	Medicines Information and Patient Education				3.6	Research and Evaluation	4.6	Staff N	1anagem	ent	
1.7	Monitoring Medicine Therapy			rmaceutical Care voctice in order to benefit potient core.							
1.8	Evaluation of							Rarely	Provide Sometimes	examples Usually	Consistently
	Outcomes	I   o		Patient consent Satisfactorily obtains patient consent if a	nnenneista			rately	Sometimes	Osdany	Consistently
1.9	Transfer of care		Patient Consultation	Patient assessment Uses appropriate questioning to obtain all Consultation or referral Appropriately refer pharmoceutical or hec Recording consultations Documents consultations where appropri	relevant info						
		Comm	nents:	Document of the second of the	ne ir ore pae	100000					·
			Need for the Medicine	Relevant patient background Retrieves relevant or available information Medicine history Documents on accurate and comprehens		history when required					
		Comn	nents:								
	The prescription is clear Ensures the prescriber's intentions are clear for any patient Ensures the prescription is legal  Ensure the prescription is legal										
			Medicine	Ensure the correct medicine is dispe	nsed						
		$\perp$		Ensure the medicine is dispensed in	a timely ma	nner					
		Comr	nents:								



#### RPS Foundation Pharmacy Framework

A Framework for professional development in foundation practice across pharmacy

January 2014



Produced in partnership with CoDEG



## Pharmacy vocational training scheme Stage 2 Competency Framework



- Development of self
- Aseptic services
- Clinical pharmacy
- Clinical governance/patient safety
- Effective use of medicines
- Dispensing services
- Education & Training
- Medical gases

	C Clinical Pharmacy Provision of pharmaceutical care to patients Competence	Evidence	Example /type	Sign-off	Tutor/trainer
	Task/activity	ref		Date	
C21	Risk prevention/risk reduction. Consistently demonstrates the ability to ensure optimum medicine therapy by delivering appropriate pharmaceutical care with minimal risk to patients.		See guidance. Case studies (n=4) Care plans (n=12)		
C21.1	Identifies pharmaceutical care needs of a patient group				
C21.2	Recommends changes to clinical practice within a patient group				
C21.3	Addresses identified deficiencies or risk				
C22	Patient assessment. Deficiencies or risks. Consistently demonstrates the ability to determine individual patient's pharmaceutical needs and the means to address and document these.				
C22.1	Creates comprehensive patient profile				
C22.2	Identifies pharmaceutical care needs for individual patients				
C22.3	Identifies pharmaceutical care needs for				

### PHARMacy education IN Europe

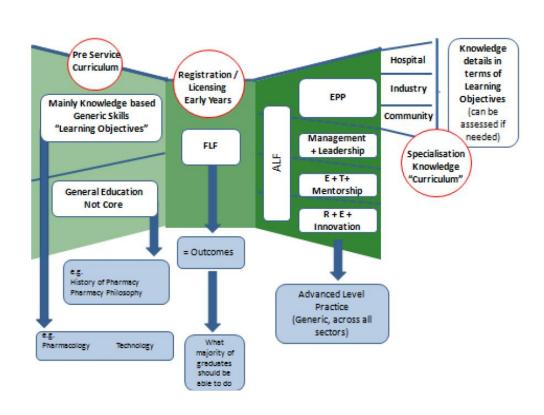
Atkinson J, Rombaut B. The 2011 PHARMINE report on pharmacy and pharmacy education in the European Union. Pharmacy Practice (Internet) 2011 Oct-Dec;9(4):169-187.

#### PHARMINE Report

## The 2011 PHARMINE report on pharmacy and pharmacy education in the European Union

Jeffrey ATKINSON, Bart ROMBAUT.

Received (first version): 20-Sep-2011 Accepted: 7-Nov-2011



# IDENTIFYING AND DEFINING COMPETENCIES

Exploitation of results - recommendations on competency curriculum for professional pharmacists

2011





WP3 Final report



### Reflective learning



Gibbs' model of reflection, from Gibbs, G. (1988). Learning by Doing: a guide to teaching and learning methods. Oxford: Further Education Unit.

### **Reflective Learning in Practice**

- Reflection helps identify what you have learnt for similar situations in the future
- Deep learning is based on reflection on something that you already know and reprocessing this knowledge, which can lead to new ideas.

- How can I use reflection to improve my performance
- What have I learned from this experience?
- What would I do the same/differently?
- What similarities are there between this situation and others?
- How can I improve the areas which did not go so well?

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#### Competency Development & Evaluation Group

**NEWS** 

critical care

information.

General Level Framework in Australia click here.

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download documents

and publications.

download recent

presentations of

CoDEGs work at international and national conferences, workshops and

meetings.

Click here to

An expert group of

pharmacists have produced guidance for

pharmacists wishing to

specialise in the area of adult critical care.

Click here for more

For information on the development of the

#### RESOURCES

This page holds some useful and important references and resources, most of which are available for you to view or download. Please note, you may not have access to the full text versions of some journal articles.

For conference and other presentations of CoDEG's work please go to the presentations page.

We aim to continuously publish our work so that it is in the public domain. The publications page lists our publications, together with those written by colleagues and other groups, with full text PDF versions where possible.

#### FRAMEWORK DOCUMENTS

- . General Level Framework (2nd Edition)
- Advanced and Consultant Level Framework
- General Level Framework User Guide
- General Level Framework guidance on KSF
- . General Level Framework adapted for use in Australia
- Australian General Level Framework Handbook
- Pharmacy Management Framework
- Framework for Pharmacy Technicians (FPT) in Medicines Management
- Framework for Pharmacy Technicians Handbook
- . FPT Evidence for Assessment
- FPT suggested guidance on competency assessment
- FPT Competency Checklist

#### ASSESSMENT TOOLS AND MAPPING DOCUMENTS

Assessment tools: mini Peer Assessment Tool (mini-PAT), mini Clinical

#### ACCESSIVE TO ALL AND MADDING DOCUMENTO

http://www.codeg.org/fileadmin/codeg/pdf/ Assessment\_tool\_instructions.pdf

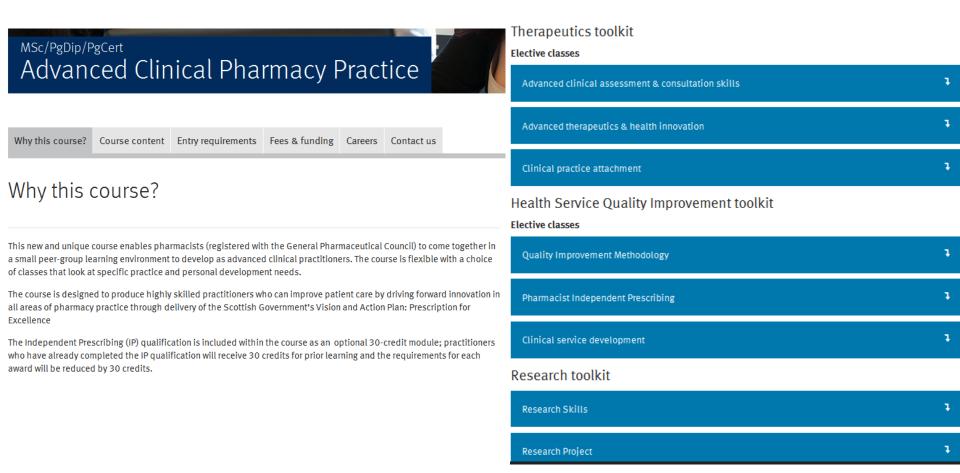
http://www.codeg.org/fileadmin/codeg/pdf/ Assessment\_Tools.pdf

#### Mini-Clinical Evaluation Exercise (CEX)

Please comple	te the questions using	g a cross	×	Ple	ase use black l	ink and (	CAPITAL LI	ETTERS
Pharmacist Surna	me	П						
Forename								
User Number:								
Clinical setting:	A&E	OPD		In-patient	Acute Ad	mission	GP	Burgery
						]		⊐
Patient Type: Care	CoE	Medica	il	Surgery	Orthopaedic	Paed	diatric Crit	tical
							] [	<b>-</b>
New or FU: Planning	New FU		s of clinic	cal History	/ Pharm. Man	agemen	t Dischar	ge
		enco				ı		
Complexity of PT.	Low Aver		High		W		Specialist	_
case:		J	.Д.	pos	ition:	П		Д
Number of previous with any trainee:	us mini-CEXs observe	ed by ass	essor	ů	1 d	<u>3</u>	å <u>53</u>	>9
Please grade areas using t	the following the scale**:	expects	low tions for apletion	Borderline for GUF completion	Meets expectations for GLF completion	expec	Above fations for completion	U/C*
Delivery of Patie	nt Care							
1 Patient consultation	1	<u></u>	2	3		5	<u> </u>	7
2 Need for drug								
3 Selection of the dru	g							
4 Drug specific issue								
5 Provision of drug pr	roduct							
6 Medicines Informati	on and patient education							
7 Professionalism								
Problem Solving								
8 Gathering informati	on							
		$\Box$				$I_{I}$	$\neg \neg$	
9 Knowledge						ı۳	ᄓ	



## MSc Advanced Clinical Pharmacy Practice





#### CLINICAL PHARMACY COURSE PODIDM80

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What our students say

Exhalambles





Differences and the Statement. Production Bridge



#### M8o Clinical Pharmacy Practice

1. Overview

#### 2. What you will study PgCert stage (stage 1)

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#### PgDIp stage (stage 2)

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Phenomenical Council (CPIC) for registration as a phenomial independent presenter. In order to to alights to this module you must habit a surrort registration with the CPAC or PSAS on a gentialing givernated and have at least to a years appropriate gathert extended experience Missing paragitization year.

View was information

5 Fixtures Machine, Management, College of the Working

The aim of this module is in critically surplus automated approaches in greating that create suring effective and effected use of medicines insurphedistrative metrics. You will take a clean lastal the processor regulated for the scale, effective and effective recongregated of medicines, key features that may began prescribing challent, segment that suggest exercises over any lawn conting shills. in the certain of resiliation recognised.

#### PHARM Danisphy and Implementing models of our or

The aim of this module is to efficiely investigate the situations, processes and extremes of a safely of phomosy continue in equals followed including benefited, exercisely and primary some. You will profess surrori reflered and least galley serious and efficiely analysis sharkess in relation to glaceracy continue productor. You will application, discovered and justily achieves become one gives in the certain of your consposition or well as your experient and national gharmany combine granted and

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#### M8o Stage (stage 3)

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#### 2 Fixture Advanced Plan many Principles

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Mode of Attendance Orline Chalance Learning Facilities

Academic school

2 School of Photocopy & Life

More information:

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Retart Control University and here I has helped her

Ratio Tenano Clinical Pharmacy Course PeOle Mile

_	opert Professional Practice roses standards of phormoceutics	al care for pasients.						
-		Developmental Descriptors						
Con	rpetency	Advanced Stage I	Advanced Stage II	Mastery				
		Demonstrates general pharmaceutical skills and knowledge in core areas.	Demonstrates in-depth pharmaceutical skills and knowledge in defined area(t).	Advances the incoviedge base in defined area(s).				
LI	Expert Sidls and Knowledge	In addition for patient focussed rolec is able to plan, manage, monitor, advise and review general pharmaceutical care programmes for patients in core areas.	In addition for patient focussed roles: It able to plan, manage, monitor, advise and review in- depth/complex pharmaceutical care programmes for patients in defined area(s).	In addition for patient focussed roles: Advances in-depth/complex pharmaceutical care programmes for patients.				
1.2	Delivery of Professional Expertise	Demonstrates accountability for delivering professional expertise and direct service provision as an individual.	Demonstrates accountability for the delivery of professional services and expertise via a team or directly to groups of patients/clients/users.	Demonstrates accountability for the delivery of professional expertise at a defined higher level.  May include providing expertise and service delivery nationally or at a strategic level.				
	Reasoning and Judgement Including + Analytical sidis	Demonstrates ability to use sidls in a range of routine situations requiring analysis or comparison of a range of options.	Demonstrates ability to use skills to make decisions in complex situations where there are several factors that require analysis, interpretation and comparison.	Demonstrates ability to use stills to manage difficult and dynamic situations.				
1.3	Judgemental didis     Interpretational didis     Option appraisal	Recognises priorities when problem-solving and identifies deviations from the normal pattern.	Demonstrates an ability to see situations holistically.	Demonstrates ability to make decisions in the absence of evidence or data or when there is conflicting evidence or data.				
L4	Professional Autonomy	It able to follow legal, ethical, professional and organisational policies/procedures and codes of conduct.	It able to take action based on own interpretation of broad professional policies/procedures where necessary.	It able to interpret relevant policy and strategy, in order to establish goals and standards for others within the defined area(s).				

The RPS Advanced Pharmacy Framework | 2013

	<ol> <li>Collaborative Working Relationships</li> <li>In able to communicate, establish and maintain professionally-driven working relationships and gain the co-operation of others.</li> </ol>							
_		Developmental Descriptors						
Con	rpatency	Advanced Stage I	Advanced Stage II	Mastery				
2.1	Communication Including ability to: Persuade Mobiusta Nagotista Empathiss Provide reasurance	Demonstrates use of appropriate communication to gain the co-operation of nelwant stakeholders (including patients, senior and peer colleagues, and other professionals where possible).	Demonstrates use of appropriately selected communication skills to gain co-operation of small groups of relevant stakeholders within the organisations.	Demonstrates ability to present complex, sensitive or contentious information to large groups of nelevant stakeholders.				
	Listen     Influence     And     Networking Skills     Presentation Skills	Demonstrates ability to communicate where the content of the discussion is explicitly defined.	Demonstrates ability to communicate where the content of the discussion is based on professional opinion.	Demonstrates ability to communicate in a hostile, antagonistic or highly emotive atmosphere.				
	Teamwork and 2.2 Consultation	Demonstrates ability to work as a member of a team.	Demonstrates ability to work as an acknowledged member of a multidisciplinary team.	Works across boundaries to build relationships and share information, plans and resources.				
		Recognises personal limitations and refers to more appropriate colleague(s) when necessary.	Consulted within the organisation for advice which requires in-depth professional expertise.	Sought as an opinion leader both within the organisation and in the external environment.				

## For pharmacists in any sector of practice

- Expert Professional Practice
- Collaborative Working Relationships
- Leadership
- Management
- Education, Training & Development
- Research & Evaluation



www.rpharms.com/development/faculty

## Pharmacist Independent Prescribing

Strathclyde

Undergraduate Study

Postgraduate Study Masters Courses in SIPBS

MPhil and PhD Degrees

MRes DPharm

Funded projects

Current Students

Applying for a place

FAQs

Research

Staff

Career Support

Equality & Diversity

Seminars

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#### Pharmacist independent prescribing

Pharmacist Independent Prescribing

Full Course

The University of Strathclyde is accredited by the General Pharmaceutical Council (GPhC) to provide courses in independent prescribing (IP).

The course of study involves pre-residential course activity, distance learning material, two residential periods and a period of learning in practice, under the supervision of a designated medical practitioner. Students will be awarded 30 ScotCat credits on completion of the course.

#### University training

This element of the course is at Scottish Masters (SHEM) level 5 throughout and is delivered through two residential periods that will be taught at the University of Strathclyde.

The first residential period (5 days) will comprise four classes, worth five credits

- Therapeutics (from a choice of cardiovascular, respiratory disease and infection, rheumatology, diabetes, substance misuse, renal medicine, nalliative care)
- · Communicating with Patients and Colleagues
- · Prescribing and Public Health
- Care Planning

Some assessments will be completed prior to attending the residential period and some will be completed after. Full attendance during the residential period

The second residential period (1/2 day) will normally take place approximately six weeks after the first residential period and will involve peer review sessions designed to demonstrate clinical and ethical practice.

#### Period of Learning in Practice (PLP)

The aim of the period of learning in practice is to provide students with opportunities to develop competencies in prescribing. This period focuses on the patient group(s) in which the student is expecting to prescribe. The PLP will begin after the first residential period.



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#### PHARMACIST INDEPENDENT PRESCRIBING

Why Study Here? Study Options Undergraduate Postgraduate Postgraduate Research Part-time Learning Distance and Flexible Professional Development Placements & Professional Links Neva & Events Cinical Skils Centre Human Performance Laboratory What our students and f 💟 🗇 🔞 🔞 Share

Pharmacist independent Prescribing

2. What you will study

1. Overview

Both routes of the course comprise two elements; a period of university based training and a period of learning in practice, both differing in duration and content depending or whether the conversion or full course route is followed.

The university-based training element of both routes of the course is delivered (except to the regidential period) on-line via the University's Virtual Learning Environment providing considerable fexibility to study athoms or the workplace facilitating the easy integration of course materials with everyday gractice. The university-based training is delivered at Masters Level (SCOF Level 11) and has been designed to meetal of the learning outcomes stoulated by General Pharmaceutical Council and covers, the following topics therapeutics, consultation skills, public health and care planning.

The residental period employs a range of healthcare professionals (including nursing and medical colleanues) to facilities the acquisition and develonment of new skills that cannot be readily taught at a distance. The residential period for the full course route is five days in duration and will occur approximately 2-5 months after the start of the course. There is a number of seaignments and gregoratory tasks that will need to be completed in order to attend the regidential neriod. The regidential neriod aims to develon the skills than a gharmaclergreecriber requires including (burnorlimited to) consultation skills, physical assessments kills, information retrieval, synthesis and defence of clinical management

The residental period for the conversion course route is only one day in duration occurring arthe start of the course and sins to develop the practical skills required for independent prescribing with an emphasis on the clinical risk assessment of patients.

The presentation of course materials for both rouses is based on the principles of adult learning theory which stresses the importance of involving the learner stall stages of the learning process and is fully compatible with the philosophy of continuing professional development (CPD), encouraging the learner to

- refectand define their own learning needs.
- plan to meethese needs
- Implementhis learning plan
- evaluate the outcomes of their learning

#### The period of learning in practice

itis a requirement of both rouses that a period of learning in practice is undertaken which is facilizated and assessed by a designated medical practitioner on behalf of the sponsoring organisation. The period of learning in practice may startar the same time, during or after the university based training. The period of learning in practice should focus specifically on the therapeutic area batters proup(s) in which his expected you will prescribe. There is no serformatfor the period of learning in gracifice and there is no need for this to be consecutive days. However, a training plan should be agreed between the designated





Course length 9-9 months for full course route 1-9 months for conversion course

Mode of Attendance Distance learning & a residental period (Sidays for the full course, day for the conversion course)

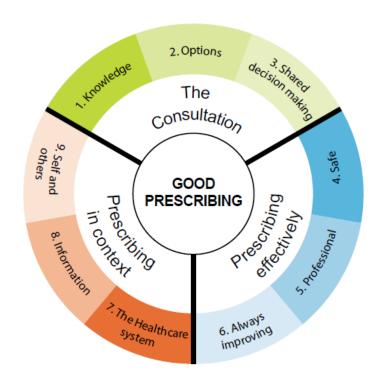
3 School of Pharmacy & Life



## A single competency framework for all prescribers

This single prescribing competency framework replaces all previous profession specific competency frameworks published by the National Prescribing Centre

Date of publication May 2012 Date of review May 2014



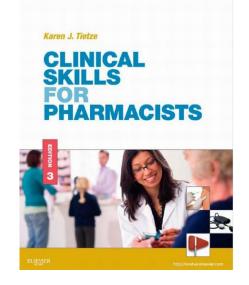
#### **NHS Education for Scotland**

Quality Education for a Healthier Scotland









#### **NHS Education for Scotland**

Quality Education for a Healthier Scotland



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PHARMACY

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Clinical Skills > Assessment Skills

#### Assessment Skills Pharmacy About NES Pharmacy **Clinical Assessment Skills Courses** Pre - Registration Pharmacist Scheme In addition to Patient centred consultation skills training, pharmacist prescribers are encouraged to attend the NES Pharmacy Clinical Assessment Skills training - both Core and Advanced. Pharmacists Courses Vocational Training Future course dates for 2014-15 will be advertised in the near future. - Prescribing To register for one of the above courses or for further information please contact Courses Flona Reld Conferences Resources **Training Location** " Clinical Skills . The Clinical Skills Centre based in Ninewells, Dundee, DD1 9SY ▼ Assessment Skills Google Map of Ninewells, Dundee □ (external site) Useful publications and equipment

Useful links:

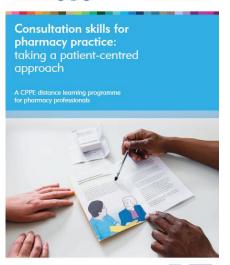
> References and equipment

Patient centred

consultation skills



CENTRE FOR PHARMACY POSTGRADUATE EDUCATION



## **Teach and Treat**



September 2013 Scottish Government



To support qualified IP Pharmacists who are not actively prescribing

- Observe lead pharmacist role model
- Run clinic under supervision
- Feedback against self assessment framework
- Run clinic independently

## **Education & Training Developments**

- MPharm & Pre-Registration Training (5 years)
  - GPhC Standards
  - Integrated experiential learning
  - Interprofessional learning
- Vocational training (foundation level)
  - competency based training in the workplace
- Postgraduate degree
  - MSc Clinical Pharmacy
  - MSc Advanced Clinical Pharmacy Practice
- Pharmacist prescribing
  - Independent Prescribing Certificate
  - Consultation & clinical assessment skills
  - Teach and Treat





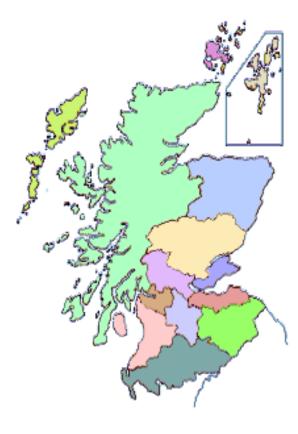
## Progress.....

- What is clinical pharmacy practice
- Education and training developments
  - Example of experiential curriculum design
  - Foundation training
  - MSc Advanced Clinical Pharmacy Practice
  - Pharmacist Independent Prescribing
- Academic Practice partnerships
- Training for Trainers
- Continuing Professional Development (CPD)

## Pharmacy Practice Academic Network NHS-University Joint Board

## Participating Boards:

- Ayrshire & Arran
- Borders
- Dumfries & Galloway
- Fife
- Forth Valley
- Greater Glasgow & Clyde
- Lothian
- Lanarkshire





## Pharmacy Practice Academic Network NHS-University Joint Board

To establish and maintain formal links between the NHS and the University to support under and post graduate education, research and practice development.

## **Education and Practice**

- To jointly influence the under and postgraduate curricula to ensure that pharmacy graduates are able to meet the changing needs of the NHS, whilst maintaining academic rigour.
- To formalise and agree the contribution of NHS staff to undergraduate and postgraduate education
- To provide a clinical environment for student learning at undergraduate and postgraduate levels

## **Education and Practice**

 To support students develop clinical and professional skills through direct engagement with pharmacy practitioners within a clinical environment

 To provide opportunities for the continued professional development of both NHS and University staff



## Role of the Practitioner – Teacher

- Create a learning environment
- Role model motivate & inspire
- Design tasks and assessment of skills
- Provide feedback
- Encourage critical thinking
- Encourage self directed learning



Pgcert/PGDip/Med Courses

**Training for Trainers** 

Peer review/support

- Expert Professional Practice
- Collaborative Working Relationships
- Leadership
- Management
- Education, Training & Development
- Research & Evaluation



## Aim of ESCP SIG Education & Training is to:

- support members who have a role in the education and development of clinical pharmacists who deliver pharmaceutical care to individual patients

#### ESCP Educational Course on **Patient Centred Teaching**

s a pre-conference activity, ESCP organised a course in Patient Centred Teaching between 23 and 25 May. ESCP tutors, Moira Kinnear and Pat Murray (Scotland) and Andre Rieutoid (France) were supported by local Swedish tutors, Per Nydert, Lisa Larsson and Ingehla Ryden in the delivery of this successful course which was attended by 16 enthusiastic participants.

plan and deliver a bedside teaching occupational therapy and pharmacy, session using real patients. The course was targeted for pharmacists with experience in clinical pharmacy Course participants were divided practice and with an interest in objectives were:

- . Identify the opportunities in the
- Plan a bedside teaching session
- type of course on a regular basis during an ESCP conference.

#### Planning for teaching

The first day of the course used small group discussion to consider the skills required of pharmacists in their contribution to optimise pharmaceutical care for individual patients. A paperbased simulated case study was used. The participants prepared presenta-

attempted to write some learning objectives related to the case sludy. The day finished with discussion around when to use real patients in teaching, patient confidentiality, ahical and practical issues in the local hospital and a tour of the pharmacy.

#### Practical experience

The concept of the 'student ward' was introduced and expanded upon the second day when Eva Thorell, the Head of the student ward at the Karolinska University Hospital described the running of this orthopaedic ward by students of The main focus of the course was to medicine, nursing, physiotherapy, divided into teams with supervisors from each profession.

into three groups working on differteaching. The course's key learning ent wards with each of the local tutors and one ESCP tutor, Working Describe the advantages in the use in pairs, they studied one patient of patients in clinical pharmscy and prepared a teaching plan, learning objectives and student trief. With guidance from the tutors and clinical environment for problem-using native language speakers, they prepared their patients in terms of the role of the patient in the exerusing the patient as a learning cise. In the afternoon, each pair of Plan the use of patients in the participants had the opportunity to be tutors and students in role play participants' own clinical teaching sessions using the real patients when possible. The role play included Form future teachers to run this delivery of a student brief including learning objectives which required a patient interview for achievement. an interview with a real patient and a debriefing session. When patients were unavailable, the communication exercise was undertaken with a doctor or nurse or a simulated

Teaching Course was a very nice experience for me. Not only did it help me to Improve my teaching skills, it was also a goo opportunity to most clinics.

and archange experiences practice. The methods we me many new Ideas which I'v to implement in the teach students on the wards unhorstyin Swadon. The rok the role both as a forcher a.

having a teaching plan and tutors were themselves really role models when it con pedigogy and baching. your I can truly recommend o to take part in the course i

more knowledge in com cation with patients and espe communicating with cultions In the wards in a hospital I th will be carsier to apply knowledge in my job as a c. pharmadst. I recommend

course!" Malin Davidsson, Sy "I think that it was very ben and well organized in to the teaching sessions and them focus on the main obje and aims. It also taught us concerning patients and the

Learning by Practising:

as a student which was very number of patient centred teaching courses in the future. reflect over my rule as a fix and on Patient Centred Teaching as a to put into practice this innovative and showed the Important teacher practitioner but also as rep-

resentative of the ESCP's Education Committee. The course was held as a pre-conference activity to the 2005 Annual Conference of the European Association of Faculties of Pharmacy (EAFP) and Richard Superkrup (Germany) General Secretary of EAFP also participated

advantages of such an active teach-ing method, in a very friendity envi-ronment. At the end of the session we were able to: · Identify the advantages of real patients in problem based learn-

> ceutical care plan. teaching.

issues from the case study.

the need in use seel nationly Job when she played the ro

ESCP has in the past delivered sev-

eral educational programmes on patient orientated teaching (Glasgow 1997. Jorusalom 1998. Royklavík Education and Training and col-leagues from the University of Strathclyde, Glaspow, Scotland,

#### The ESGP Education Committee,

which I have chaired since October tred teaching'. The current chair of the SIG Education and Training, Moira Kinnear, is also a member of the Education Committee and is leading this initiative. We have . Design a plan for small group plans to include 'patient centred toaching' courses on a regular basis For example: one is being held as a



#### Malta

Let's go to the Clinical Ward and Meet the Patient

aving participated in the 5th ESCP Course in Patient Centred Teaching organised in Malta last March, André Rieutord, Chair of the ESCP Education Committee, reports on the benefits of the course and ESCP's plans to increase the From 7 - 9 March 2005 I was plad The whole group was very enthusias to attend the famous Malta course tic about the course, looking forward

way regarding a course in Amsterdan prior to ESGP's 34th Symposium, which would be based not only in a hospital but also in a communit alone' courses similar to the Malta course in other countries in Europe

opportunities to: Stimulate changes in the forma tion of pharmacists that are espe-

- cially needed in the countries where clinical pharmacy is in its
- Motivate students by enjoying the reality of focusing on individual patients. macy either at the hospital or in
- would personally like to thank all organisation, all the tutors for their excellent job and congratulate the Maltese students for their high leve

of knowledge.

Let me also wish that there will very soon be ESCP satellite centrel eaching courses all over Europe!



Salzburg

Glasgow

Reykjavik

Grenoble

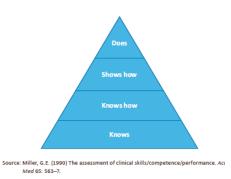
### **Edinburgh**

#### Educational Course - Patient Centred Teaching

An educational course to develop clinical pharmacy teachers was run at Edinburgh Royal Infirmary over the 3 days prior to the 7th ESCP Spring Conference. This course developed from an original 5 day course designed by a team from NHS Lothian and University of Strathclyde. In 1996, 1997 and 1998 three courses were run in Glasgow/Edinburgh for European pharmacists including senior pharmacists in Scotland who support clinical placements for pharmacy students. Extracts from the course have been delivered in various formats within international conferences in loeland, Malta and Jerusalem. In May 2005, a 3 day course was delivered in the Karolinska University Hospital

### **Stockholm**

patient (tutor).



# Continuing Professional Development CPD ≠ CE



	Developmental Descriptions				
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	Committee grant photosocial oils and societies in concess.	Denomptes trababilities area (C.	Automore the investeign lane in defrect area().		
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Spetis			Thy include providing expertise and service delaway reasonally for all a stranger level.		
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Intervent 6th     Interventions 6th     Option agreese	Surgeon printing what publish solving and standard decisions have the correct patients	Compositions in skills to see shadow halolooky	Demonstrate shifty to make dedicate in the statement explorer or data or when there is conflicting authorise or data.		
# Professional Autonomy	It didn to follow legal, whical professional and regardational policies/procedures and codes of storduct.	t die tritte aller hand er oor trespektie ef brad professione politeilprombree often nessen;	I die to helped release judicy and dinlegs in order to entablify pash and declarate for other, within the defined area(s).		

| Section of the control of the cont

- Mandatory ——— Re-validation
- Learning in practice
- Learning with, from and about others (IPE)
- Learning from incidents
- Problem Based Small Group Learning

The Report of the Public Inquiry into children's heart surgery at the Bristol Royal Infirmary 1984-1995

Learning from Bristol

The Bristol Royal Infirmary Inquiry







A Framework for Lifelong Learning for the NHS



The NHS Knowledge and Skills Framework (NHS KSF) and the Development Review Process

## IPE – what is it?

"occasions when two or more professions learn with, from and about each other to improve collaboration and the quality of care"

CAIPE 2002 (UK Centre for the Advancement of Interprofessional Education) <a href="https://www.caipe.org.uk">www.caipe.org.uk</a>

EIPEN (European InterProfessional Education Network) www.eipen.org

## **Prescribing Safety**

- Prescribing errors in hospitals are common (≈ 8%)
  - Franklin et al Postgrad Med J 2011;87:739-45
  - Ryan et al PloS ONE 2014;9:e79802
  - Dornan et al EQUIP report 2009 <u>www.gmc-uk.org</u>
- Pharmacists recognised for reducing errors reaching patients
- Low prevalence of errors reported for prescribing pharmacists (0.3%)
  - Baqir et al Eur J Hosp Pharm 2015;22:79-82

# Pilot IPE Masterclass Prescribing Skills

- Nurses, Pharmacists, Medical students
- Steering group of 2 Pharmacists, 1 Nurse, 1 Dr
- Designed 3 simulated prescribing exercises
- 2 scenarios included simulated patients
- Groups of 1 med student/1nurse/1 pharmacist
- Competences mapped to NPC single competency framework
- Measures of RIPL, self efficacy
- Qualitative feedback



Pharmacy Education to Support Clinical Pharmacy Practice

"If you always do what you've always done, you'll always get what you've always had"

Albert Einstein