INTRODUCING INTER-PROFESSIONAL EDUCATION INTO THE UNDERGRADUATE PHARMACY SYLLABUS

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DEFINITIONS

 Interprofessional education (IPE) is the process by which we train individuals and teams to practice collaboratively.

Faculty of Pharmacy, University of Montreal, AIPHE Accreditation of Interprofessional Health Education ((Funded by Health Canada)

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

CAIPE The UK Centre for the Advancement of Interprofessional Education 2002 (www,caipe.org.uk)

IPE Competencies



RPSGB Accreditation Criteria for Undergraduate Courses 1998

"Where appropriate and possible, the student is taught and learns alongside and together with students of other health professions"



The Aberdeen Interprofessional Health and Social Care Education initiative





Final Report to the Scottish Government Shared Learning Steering Group members

(Pilot study in 2003/4, 3 year project reported 2008)

The Robert Gordon University and University of Aberdeen Dr Michael Gibson (Interprofessional Education Research Fellow)

School of Pharmacy&LifeSciences, The Robert Gordon University Dr Lesley Diack (Principal Investigator), Professor Terry Healey

School of Medicine, University of Aberdeen Professor Christine Bond, Professor Hamish McKenzie

Correspondence to: Dr Lesley Diack, School of Pharmacy and Life Sciences, The Robert Gordon University,

The unique position of IPE in Aberdeen is that it reaches across two Universities and ten professional courses, at 3 locations and involves 1000+ students per year



 Dr Lesley Diack at h.l.diack@rgu.ac.uk

Has published 40 + papers on interprofessional learning.

E-learning for IPE presented by Dr Diack at EAFP, Catania



The IPE programme

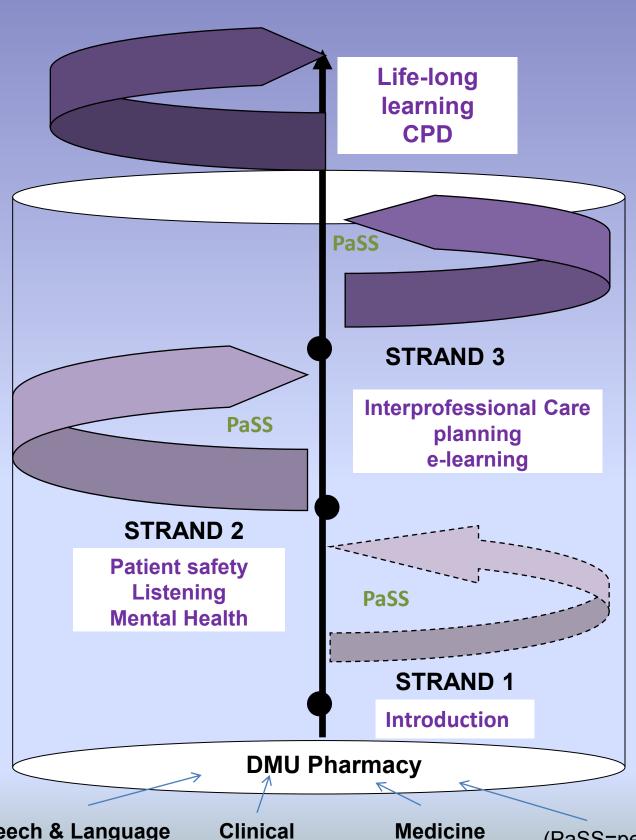
Neena Lakhani (Leicester School of Pharmacy DMU)

Elizabeth Anderson and Angela Lennox(University of Leicester School of Medicine)

Numerous publications including: Pharm.J.(2008),280,571-2 J. of Interprofessional Care (2009) 23:6,557-73







Speech & Language Therapy Audiology

Psychology Police Social Work Medicine Nursing & Midwifery

(PaSS=peer assisted study sessions)

Learning in small groups

Each group comprises students from at least 3 different professions

Student: tutor ratio = 20: 1

Tutors are trained IPE facilitators (one experienced and the other can be shadowing)

Service users who want to teach on the course are also trained

Assessment is through reflective portfolios using specified criteria

General Pharmaceutical Council 2010

New Education Standards

One of the Expectations of a Pharmacy Professional

"Knows how to engage in multidisciplinary team work"



Questionnaire

- Does your University System provide interprofessional learning?
 Is this provided in Years 1, 2, 3, 4, 5?
- What other students are involved with pharmacy students ?(for example: medical, dental, veterinary, ophthalmic, nursing, engineers, chemists, biologists)
- Anything specific for industrial pharmacy?
- What type of inter-professional learning is undertaken? (for example: joint lectures, joint seminars, joint projects, teamwork?)
- What does this represent in terms of the overall hours of work in the pharmacy curriculum?

DISTRIBUTION of QUESTIONNAIRE

European Industrial Pharmacists
 Group (EIPG) members
 Replies 20 European countries

 FIP online Community of Practice (education and training)

Replies 13 countries

Results of Questionnaire European Countries

 No interprofessional learning at undergraduate level in:

Bulgaria, Czech Republic, Croatia, Greece, Hungary, Italy, Latvia, Norway, Spain, Switzerland, Ukraine

Lecturers from other Faculties may teach pharmacy students and some subjects shared with students of biology and chemistry

. Respondents said YES to interprofessional learning in the following countries:

Belgium, Denmark, Finland, France, Germany, Great Britain, Malta, Netherlands, Sweden

Less than half of European countries provide interprofessional learning to undergraduates

No specific IPE for potential industrial pharmacists in the undergraduate course except the optional course on veterinary medicines in Helsinki

BELGIUM (Ghent)

In 1st and 2nd years, 25% of total hours is joint learning as there are many "shared" courses in biology, organic & inorganic chemistry, physics, philosophy etc.

This reduces to 5% of total hours in the more specialized 4th and 5th years.

Examples of various disciplines working together (IPE) would be in joint specialised courses, such as biotechnology (e.g. PCR).

DENMARK

- Copenhagen –No IPE except electives
- Southern University- Yes, IPE in all 5 years. Mandatory natural science courses are followed by pharmacy students as well as chemistry/engineering students.
 Elective courses are hosted by institutions other than pharmacy and pharmacy students will follow these together with e.g.

medical students.

FINLAND (Helsinki)

Optional courses in later years of study such as:

- Smoking cessation with medical students (20% of pharmacy students participate) represents 3-4 ECTS (of 300 total ECTS in MPharm)
- Veterinary medicines development with veterinary students (30% of pharmacy students participate) represents 4 ECTS.

Joint lectures, problem-solving and discussion in multiprofessional groups



FRANCE (Lille)

- The first year of the course is common to medicine, dentistry and pharmacy.
- Internship in medical biology (common with medicine)



MALTA

- Computing for students of chemistry and pharmacy is taught in Year 1
- Joint teaching of microbiology is taken by Year 1 pharmacy students with nursing and chemistry students.
- Calculus (Year 1) and Statistics (Year 2) are provided to many Departments
- Separation science is taken by pharmacy and chemistry students in Year 3.

THE NETHERLANDS (Utrecht)

In years 3 and 5, pharmacy students have joint lectures, seminars and projects with students of medicine, chemistry and biology, e.g. on the development of new medicines.

Masters Course has a mandatory inter-professional study of one week between pharmacy and medical students representing less than 1% of the overall course.



SWEDEN

 A few courses in years 2,3,4,(with joint lectures, seminars and projects) are given with other programmes such as organic chemistry, pharmacoepidemiology and pharmacovigilance. Students from other programs attend pharmacy-courses if they choose but none of the courses are mandatory for chemists and engineers. No courses are read together with other health care professionals

GERMANY

 In year 3, there are joint lectures and joint seminars for pharmacy students with students from chemistry, medicine and biology. This represents 2-4 hours of work.

(Rather than IPE, these are study units taught to students from different programmes simultaneously)



RESULTS of SURVEY Rest of the world

No interprofessional learning at undergraduate level in 4 countries:

Malaysia (IIUM, Pahang), Thailand (Srinaharinwirot) India (3 universities) and Bangladesh

Yes, interprofessional learning in the following:

Australia, Canada, Indonesia, Japan, Lebanon, Tanzania, Uganda, UAE, USA

INDONESIA (West Sumatra), TANZANIA (Muhimbili), UGANDA (Makerere)

- Pharmacy students are taught together with medical, dental and nursing students (~20% of total course) and then participate in "joint outreach programmes" in rural areas.
- In Indonesia, students of economics, social sciences, law, politics, engineering, nutrition, psychology are included in their "community empowerment programme" with healthcare students, including pharmacy







The World Health Organization (2010) summarised the evidence in a Framework for Action on Interprofessional Education & Collaborative Practice. Report emphasises need to make use of limited resources

Health Professions Networks Nursing & Midwlfery Human Resources for Health

Framework for Action on Interprofessional Education & Collaborative Practice





Australia (Monash University) Year 4
module for pharmacy together with
medical students uses virtual elderly
patients, collecting histories and
preparing care plans (10-20 hours).



together with medical emergency (paramedics) students, medical imaging and biomedical engineering undertake health awareness campaigns, integrated projects in anatomy, physiology, foundation and behavioural sciences.

JAPAN (Gunma)

Pharmacy students are part of a team of medical, nursing, lab science, physio- and occupational therapy who undertake group work, presentations and reports.

See nine year review of student attitudes: Ogawara et al., Human Resources for Health, 7:60, 2009 and Hayashi et al., Journal of Interprofessional Care 2012, 26:100-107

LEBANON (American Univ)

IPE runs from years 3 to 6 with students of pharmacy, medicine, nursing, nutrition and social work having joint lectures, team work and a collaborative practice model. This represents 4-6 hours per year for 4 years.

CANADA (Montreal)

Formal curriculum including 3 x1 credit mandatory courses in years 1-3 shared by 11 programmes:

Audiology, medicine, nutrition, nursing, occupational therapy, pharmacy, physiotherapy, psychology, social work, speech therapy, optometry.

Material developed by academics from all programmes includes on-line modules, intra-(introductory) and interprofessional workshops, IPE activities take place in clinical rotations in 5 different settings.

Aiming for more joint projects as students only meet face to face for 3 hours each course

Represents 3 credits out of 164 total course

Toronto Very similar to above but represents 20 hours per year for 4 years.

CANADA publications

INTERPROFESSIONAL HEALTH EDUCATION (IPHE) ACCREDITATION STANDARDS GUIDE

Phase 2 - Funded by Health Canada

To contact the AIPHE Initiative, visit: www.aiphe.ca

CANADIAN INTERPROFESSIONAL HEALTH
COLLABORATIVE A NATIONAL
INTERPROFESSIONAL COMPETENCY
FRAMEWORK 2/2010

College of Health Disciplines www.cihc.ca



USA (AACP)

- IPE is included in American Association of Colleges of Pharmacy (AACP) accreditation guidelines
- May occur in all 4 years of PharmD programme, particularly clinical rotations in final year
- Pharmacy students work with students of medicine, nursing, dentistry and allied health
- Class room, experiential and simulated learning, case studies and clinical skills competitions are employed
- The amount of IPE varies across 127
 pharmacy schools in the US from a few hours of introductory learning to an entire year of didactic and clinical course work



USA (Kentucky)

- In all 4 years of pharmacy, joint lectures and seminars, interactive case studies, interprofessional clinical rotations with medicine, dentistry, nursing, public health, health sciences (physical therapy, speech therapy, occupational therapy, physician assistants)
- In years 1-3 this represents less than 5% of the curriculum. Year 4 is almost completely interprofessional.



Pros/Cons of IPE

PROS

- Encourages real life multi-disciplinary teamwork
- Improves student motivation
- Changes student attitudes and perceptions
- Establishes common values and knowledge base

CONS

- Logistics
- Management
- Training of IPE facilitators
- Course ownership need enthusiastic leads for IPE to work

QUESTIONS?

