

### Co-funded by the Erasmus+ Programme of the European Union



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Methods and Tools in Interprofessional Education Teaching Experience from Trinity College Dublin

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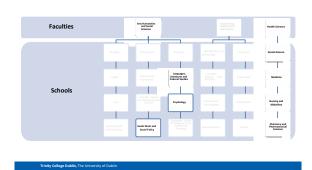


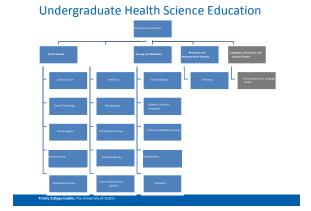
### **University Structure**

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Faculties	Arts Harman and Soci Sciences	**	Engineering, Mathematics and Science		Health Sciences
	Basiness Creative As	s Education	Richemistry and Immunology	Oseniety	Dettal Science
Schools	English Histories as		Computer Science and Statistics	Engineering	Medicine
	Law Linguistic, Jack	rize Psychology	Genetics and Microbiology	Mathematics	Nursing and Midwillery
	Social Sciences and Philosophy Social Poli		Natural Sciences	Physics	Pharmacy and Pharmaceutical Sciences

## **University Structure**





## Interprofessional Education Programme

Interprofessional Learning Workshops •Established since 2009 •Evaluation and development

## New and Developing Projects Interprofessional learning ward

•Preparation for interprofessional learning •Interprofessional learning case studies

### **Competency frameworks**

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Interprofessional Collaboration Interprofessional teamwork and teambased practices Interprofessional Communication Practices Interprofessional Communication Practice Interprofessional Practice Interprofessional Practice Interprofessional Practice Interprofessional Practice Interprofessional Practice Interprofessional Community and Population Oriented

> Interprofessional Education Collaborative. (2016). United States

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## Teaching and Learning Methods

Examples	Principles
Case based learning	Active
Problem based learning	Interactive
Experiential learning	Reflective
Reflective learning	Patient centred
Stimulated learning	

Create opportunities to compare and contrast roles and responsibilities, power and authority, ethics and codes of practice, knowledge and skill in order to build effective relationships between the professions and to develop and reinforce skills for collaborative practice.

### **Competency frameworks**



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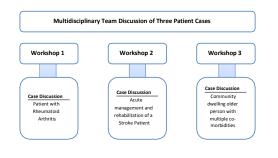
Interprofessional Collaboration •Role clarification •Team Functioning •Interprofessional Conflict Resolution •Collaborative Leadership •Interprofessional Communication •Patient/Client/Family/Community Centred Care

> Canadian Interprofessional Health Collaborative (2010). Canada

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## Interprofessional Learning Workshops

### Interprofessional Learning Workshops



## Interprofessional Learning Workshops

Series of 3 interprofessional learning workshops

3<sup>rd</sup> year students

•Medicine •Nursing

•Pharmacy

Physiotherapy

•Occupational Therapy

•Human Nutrition and Dietetics

•Clinical Speech and Language Therapy

### Learning Outcomes

By the end of the course the student will be able to;

- Justify the team members required to effectively manage a series of patient presentations.
- Explain the role of members of the interdisciplinary team in the management of selected patient conditions.
- Demonstrate effective communication when discussing patient cases with an interdisciplinary student group.
- Justify how effective teamwork and communication can impact on patient care.

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## Interprofessional Learning Workshops

Preworkshop preparation on Blackboard •Self-directed preparation

•Video / PDF of case notes

#### Case Studies

•Rheumatology •Stroke

•Older person in the community

During the workshop students discuss the case with their interprofessional colleagues

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### Virtual Learning Environment

Preparation, Discussion, Postworkshop Stu

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Freeswahalog Basig			
Assessment			
Prequently Asked Questions			

## Example of a Case Study

1. Early Phase:

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Mr Smith a 55 year old accountant was admitted to A&E with sudden onset of left sided weakness. He lives with his wife and 2 teenage daughters.

Discuss the management of the acute phase of this patient (0 – 48 hrs)

Workshop 3

47

82

35 42

24

24

#### Example of a Case Study 10p 2: Strok

#### 2. Rehabilitation Phase:

CT scan has shown a right MCA ischaemic infarct. Day 3 - Patient is now medically stable and has been referred to the stroke unit for rehabilitation.

Medical notes state the following: -Weakness and reduced tone and of the UL and LL 2/5 -Dependant on 2 for transfers -Inattention of the left side -Mild cognitive impairment

-Unclear speech - ? moderate dysarthria

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#### -Coughing on Liquids

Discuss each of your roles in the management (assessment and treatment) of this patient.

Workshop Flow

-lce-breaker activity

-Student led discussion -Wrap-up

-Introductions

-Prompt 1 -Student led discussion

-Prompt 2

#### Interprofessional Learning Workshops m 2016



### Workshop Format

#### Role of Tutor

-Facilitate discussion -Focus on learning outcomes.

Encourage contributions from all professions.

Ensure discussion of roles and responsibilities

Quality of communication

Professional and respectful conduct

# The workshops are a student-led activity. Encourage consultation within the room for queries related to the role of other professions.

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#### Student Medicine Nursing Pharmacy РТ ОТ -Elect a chair and secretary. Encourage different professions to take each role. SLT Nutrition Dietetics

		Total	408	431	431
Staff	Medicine		2	2	1
	Nursing		3	2	2
	Pharmacy		2	2	2
	PT		1	1	2 (jointly)
	от		1	1	1
	SLT		0	1	1
	Nutrition Dietetics		0	0	1
	IPL		1	1	1
		Total	10	10	11
Rooms	Trinity Centre SJH		10	10	10
		Total	10	10	10

Workshop 1

48

82

35 42

0

24

Workshop 2

47

82

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24

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Logistics

## Interprofessional Learning Workshops

#### Assessment

Medicine

Individual submission of 500 word reflective essay

OSCE examination

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Workshops not currently integrated into all disciplines limiting assessment.

## Evaluation

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Online Preparation	Workshop 1	Workshop 2	Workshop 3
Preworkshop IEPS	Workshop 1 IEPS		Workshop 3 IEPS
Change in attitude during a control period	Change in at	titude following three IPL works	hops

#### Evaluation Michaelmas Term 2016

Online Preparation	Workshop 1	Workshop 2	Workshop 3
	Change in at		
Preworkshop RIPLS			Postworkshop Evaluation
			Postworkshop Competence

### **Evaluation Tools**

Readiness for Interprofessional Learning Scale
(RIPS)

•Teamwork and collaboration

•Negative professional identity

•Positive professional identity

•Roles and responsibilities

Interprofessional Education Perception Scale (IEPS)

•Autonomy and competency

•Perceived Need for cooperation •Perception of actual cooperation

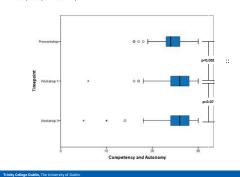
### **Pre-workshop Attitudes**

	Minimum	Maximum	Total (n=122)	Percentage Total Score
RIPLS				
Teamwork and Collaboration	9	45	40 (6.5)	89%
Negative Professional Identity	3	15	13 (3)	87%
Positive Professional Identity	4	20	16(3)	80%
Roles and Responsibilities	3	15	9 (2)	60%
IEPS				
Competency and Autonomy	5	30	25 (3)	83%
Perceived Need for Cooperation	2	12	11 (2.5)	92%
Perception of Actual Cooperation	5	30	25 (5)	83%

#### Pre-workshop Attitudes Multiple Linear Regression Analysis

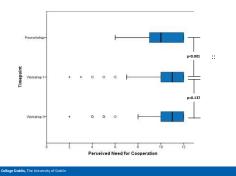
	Independent Variable	Standardized Beta	P-value	R <sup>2</sup>
RIPLS				
Teamwork and Collaboration	Male gender	-0.25	0.009	0.18
Negative Professional Identity	Discipline: Medicine	-0.25	0.023	0.20
Positive Professional Identity	Discipline: Medicine	-0.29	0.008	0.09
IEPS				
	Discipline: Medicine	-0.32	0.003	
Perception of Actual Cooperation	Experience joint patient treatment session on clinical placement	0.283	0.005	0.17

Change in Attitudes

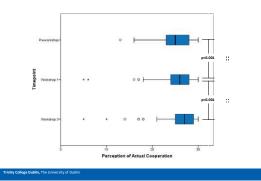


## Change in Attitudes

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### Change in Attitudes



#### Post-workshop Evaluation

			1.1	ALC:	Good	Excellent
į	Barangan kegunakan di bertakan kerangan Kemulah gunakan dari				150 (67.6%)	23 (10.4%)
÷.	la na parte parte la companya de la companya. Referencia				128 (57, 710	13 (37.40a)
÷	terningen in genoem en state eine met genoemt. Rei genoemter				1377 (61, 7%)	36 (16.2%)
	1. Mary ang				119 (53.6%)	112 (316, 976)
-	terne par la parte de la companya de La companya de la companya de la companya de la companya de la companya de				45 (21.180	165 (76.1%)
-	La degla La gla composito de la				57 (25.7%)	156 (76.3%)
	<ul> <li>International and the ground state groups</li> <li>International and the groups</li> <li>International and the groups</li> </ul>				119 (51.0%)	91 (41%)
1	territegia territegia de la seconda da second Seconda da seconda da se				111 (90%)	21 (41%)

#### Summary

Pre-workshop attitudes scores were >80% of maximum values in all domains with the exception of Roles and Responsibilities.

Significant improvement in attitudes and perception to IPL following completion of the workshop programme

•Students improved in all domain following online preparation

•Perception of Actual Cooperation domain improved significantly following the face-to-face workshops

Post-workshop over 80% of students rated both their own and their teams' performance in all competency domains as either good or excellent

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### Implications

Lessons from Evaluation

Students demonstrate high readiness for IPL in  $3^{\rm rd}\,{\rm year}.$  Potential to introduce IPL earlier in the curriculum.

Students demonstrate learning following online preparation. Potential to optimise the online preparation and following interactions of students to expand each IPL activity.

Face-to-face contact required to achieve learning in certain domains

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#### Implications

#### Workshops

Conflicting clinical placements compromise attendance for some groups

Flexibility required to facilitate large interprofessional group

•Suggested solutions

- Mixing year groups
- IPL workshops throughout the year with optional participation

Integration into undergraduate programmes central to introducing assessment.

### Evaluation

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Guinan E.M., Barrett E.M., Neil F., Grimes, T., Sullivan, D., O'Sullivan M., Patterson A., Stapleton T., Walsh I., Walsh I.J., Conlon K.C. Attitudes to Interprofessional Education Among Health Science Students Engaging in a Multidisciplinary Workshop Series. International Journal of Health Science Education. (under review)



### New and Developing Projects

Interprofessional L	earning	Wards
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Developing sustainable models of interprofessional learning in practice — The TUILIP project

Helen Annitage <sup>a</sup>r, Jim Connolly <sup>0</sup>, Rishard Pitt<sup>e</sup>

<sup>6</sup> Euwählung Hensika und Hicklanisp, Singländä Haltara Billioranisp, 87-652-Basaminati Road, Jangieritä, Satt 2004, umitari Kingdian <sup>1</sup> matsua og Kataljungkasianaa Dikanaisun, Bastellidianak Akatalanen Workfanne Wangkam <sup>2</sup> Sanaispagi Ketanisman Histobia Sinemese, jusianati ja Katalingham, Jaioza Akingsian

> Interprofessional training in the context of clinical practice: goals and students' perceptions on clinical education wards for binary function for biosecury biosectory band search and search

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Interprolessional training for final year leastiftcare students: a netword methods evaluation of the impact on ward staff and students of a two-week placement and of factors affecting sustainability methodogie attachmeter

Interprofessional Learning Ward

Pilot ward planned for March 2018

students

•2nd and 3rd year

•Medicine, Nursing, Physiotherapy, Occupational Therapy

Rehabilitation and acute medical care unit for community dwelling elderly patients at St James's Hospital Dublin

Students will work together to deliver care as an interprofessional team

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## Interprofessional Learning Ward

To work together as an interprofessional team to deliver safe and effective patient-centred care.

To communicate effectively with student colleagues, hospital staff, patients and the families to deliver patient-centred care.

To increase knowledge of one's own role within the multidisciplinary team and to gain insight into the roles and responsibilities of other professions in the planning and delivery of patient care.

To work professionally and respectively within an interdisciplinary team.

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### **Daily Schedule**

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DRAFT	
Time	Student Schedule (Draft)
0800 - 0900	Student tutorials (Please see Table 2)
	Tutor in attendance
0900 - 0930	Break
0930 - 1000	Student led case conference
	Plan patient care and timetable for the day Tutor and/or supervising clinician in attendance
1000 - 1200	Cinical activities
	Students work in pairs to provide patient care
	Session led by appropriate student discipline e.g. physiotherapy student leads on physiotherapy treatment –
	each student works within their own scope of practice.
	Supervision and sign-off provided by each discipline in line with regular practice Students timetabled to attend/deliver falls education group (30mins) and any other RMDH activities.
1200 - 1230	
	Admin time
1230 -	Lunch
1330 1330	Clinical activities
1330 - 1530	
	Students timetabled to attend/deliver balance re-education class (30mins) and any other RMDH activities.
1530 - 1600	Patient centered documentation of notes - Students discuss and document patient care with discipline
	supervisor
	Patient care signed off by discipline supervisor
1600 - 1630	Debrief session/Reflective practice
	Students discuss patients seen during the day and ongoing plans for patient Tutor and/or supervising clinician in attendance

## Interprofessional Learning Ward

The primary purpose of the pilot project will be to examine the feasibility of the ward to inform future development. To evaluate this endpoint we will examine the experiences of (I) students participating in the ward, and (ii) clinical staff supervising the students during their clinical placement.

#### The objectives of the evaluation are:

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•To examine the learning experiences of students participating in the pilot IPL ward.

\*To examine student perspectives on ward organisation and implementation.

•To examine clinical staff perspectives on ward organisation and implementation.

\*To examine clinical staff perspectives of student learning experiences in the pilot IPL ward.

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## Interprofessional Learning Ward

Focus Groups

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- Students: The purpose of the focus groups will be to gather information across five major themes: \*The overall student experience on the IPL ward
- •Student learning that was achieved on the ward
- •The interprofessional learning experience for students on the ward

•Students evaluations of their preparation for the IPL ward •Students evaluations of the daily running of the ward

- Staff: The purpose of the focus groups will be to gather information across four major themes:
  The overall staff experience of working on the ward
  - Staff evaluations of the level of preparation that they received for the IPL ward
  - Staff evaluations of the daily running of the ward
  - Staff impressions of student learning experience while on the ward

Topic	Content	Hours
Stereotypes	Lecture on stereotypes in healthcare	45 minutes
	Student activity: Pictionary activity in small groups	
Teams and	Lecture on the role of interprofessional teams in healthcare and principles of 45 minute	es teamwork
Teamwork	Student activity: Small group discussions on clinical scenarios	
Roles and	4• year student leaders: one OT, one PT and two dieticians	45 minutes
Responsibilities	Leaders panel: Each student leader described their professions role in healthcare and	210101010101
	their experiences. 1 <sup>a</sup> year students interacted by asking questions of the	
	leaders	
Multidisciplinary	Case study provided to 1" year students and student leaders in advance.	90 minutes
Teamwork	1«year students were divided into four small groups in class.	
	One student leader joined each group and discussed the case with the 1 <sup>st</sup> years.	
	Student leaders rotated every 10-15 minutes. Using this format the 1"year students	
	received support with the case from two dieticians. This activity helped them develop	
	and understand their own professional role. They also interacted with one OT and one	
	PT. This activity exposed them to the roles of other health professionals in the	
	management of this case.	
	1ª year student groups each generated three multidisciplinary treatment goals for the	
	patient which were discussed with the full class.	

Preparation for Interprofessional Learning

## Preparation for Interprofessional Learning Student Feedback

"Very Beneficial – enjayed it thoroughly and learned a lat - It seemed more relevant to our course than many other modules in first year"

"One of the most interesting and relevant things we've done all year, I really enjoyed it, getting a chance to ask them questions (the leaders) and hear about their placements was great"

"It's a very energising practical learning, very useful, and a lot better than learning the theory of different roles"

"IPL is really useful in finding a realistic insight as to how professions function in hospital / community based cases – finding out the limits to solutions and treatments and finding out the types of cases that are encountered at work"

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## Interprofessional Learning Case Studies

Opportunities to increase interprofessional learning activities throughout programmes.

Developed by identifying opportunities within the curricula where overlap exists.

Торіс	Disciplines	
Management of a patient with COPD	Pharmacy	Physiotherapy
Medication management in dentistry	Pharmacy	Dentistry
Medication Safety	Pharmacy	Nursing
Management of a patient with head and neck cancer	Pharmacy	Clinical Speech and Language Therapy

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## Interprofessional Learning Case Studies

#### Aim

The aim of this seminar is to enable students to experience collaborative practice through completion of an interprofessional learning seminar on management of a patient with COPD. The activity aims to increase student's awareness of the roles of other members of the multidisciplinary team in patient care and to recognise the importance of teamwork and good communication in patient care planning.

Methods of Teaching and Learning

Small group learning

#### •Peer-learning Hours

•1 hour seminar per student

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## Interprofessional Learning Case Studies Management of a Patient with COPD

#### Learning Outcomes

On completion of this seminar students should be able to:

•Explain and demonstrate one's own role and responsibilities in the management of a patient with chronic obstructive pulmonary disease (COPD) to other members of the multidisciplinary team.

•To recognise the role of other professions in the management of a patient with COPD

\*To demonstrate effective teamwork skills to generate team approaches to management of a patient with COPD

•To communicate professionally and respectively with other healthcare discipline.

#### Interprofessional Learning Case Studies ent of a Patient with COPE

Session Outline Students will be organised into small interprofessional groups to discuss the following case study.

Introduction Students will receive a short (5 minute) introduction outline the purpose of the interprofessional learning session, the learning outcomes for the session and the format of the session. Students will introduce themselves and their profession to their groups.

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Student Group	Task
Physiotherapy	Explain the role of the physiotherapist in the management of COPD
Pharmacy	Explain the role of the pharmacist in the management of COPD
Physiotherapy	Demonstrate and explain positions of ease
Pharmacy	Demonstrate and explain inhaler technique
Physiotherapy	Demonstrate and explain ACBT
Pharmacy	Demonstrate and explain a patient medication record
Physiotherapy	Demonstrate and explain St George's Respiratory Questionnaire
Pharmacy	Demonstrate and explain the Medications Beliefs Questionnaire

### Challenges for the Future

Assessment\*\*

Integration

Continued development

Opportunities for research and evaluation Staff development



Thank you.

**Questions?**