



Lessons Learned from an Interprofessional European Summer School in Health Informatics

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MEDINFO 2019: Health and Wellbeing in Networks for All
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Towards the TIGER International Framework for Recommendations of Core Competencies in Health Informatics 2.0: Extending the Scope and the Rates

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Original Articles

OPEN ACCESS

Technology Informatics Guiding Education Reform – TIGER*

An International Recommendation Framework of Core Competencies in Health Informatics for Nurses

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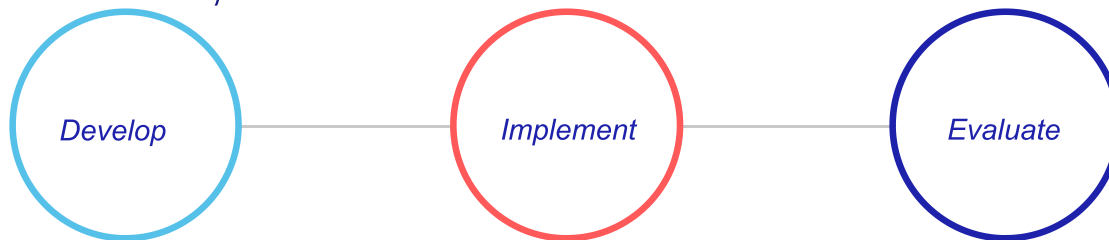
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The Interprofessional European eHealth Programme in Higher Education (eHealth4all@EU) aims to:



an interprofessional eHealth training programme for graduate students from medicine, nursing, allied health, informatics, engineering, business, law, and management.





The Porto Summer School: Students and Teachers



Ursula H. HÜBNER, Pedro VIEIRA-MARQUES, Jens HÜSERS, Tiina HAUKKAKALLIO, Johanna IKONEN, Nicole EGBERT, Joao ALMEIDA, Birgit BABITSCH, Ulla-Mari KINNUNEN, Ricardo CORREIA, Kaija SARANTO

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The didactic scenario: local learning health system

A group of healthcare providers plans to improve the prevention of diabetes mellitus in the population of their patients. Data in EHRs of two hospitals and several physician offices are to be used to find the specific local determinants of developing diabetes mellitus. Based on these findings a tailored concept for risk mitigation should be developed and a clinical decision support system should be sketched.

How can we access data from different systems?

interoperability

Are we allowed to use these data?

data protection and security

How do we determine the local risks?

clinical data analytics





Three Modules: Learning Goals

Interoperability:

- ✓ To understand the **importance of interoperable health information systems** for obtaining data that can be analysed
- ✓ To understand the key aspects for **structural and semantic interoperability**
- ✓ To understand the **main constructs of HL7 FHIR and apply them to a clinical information exchange scenario.**

Data protection and security:

- ✓ To understand what **confidentiality, integrity and safety** means, understand data subject`s rights, to understand meaning of consent in healthcare and to understand the role of Data Protection Officer in healthcare organization.
- ✓ To **analyse these legal and ethical requirements** and explain how they can be implemented, to **evaluate health applications** and understand the role of risk management role.

Data analysis:

- ✓ To perform **data pre-processing** based on a practical example
- ✓ To **develop a statistical model** that allows the analysis of patient data
- ✓ To **interpret the findings** from applying the statistical model and to devise a concept for changing the practice of patient care



The Porto Summer School: Schedule



Online ten days preparation phase

Videos, texts, quizzes
for all three modules

in moodle

Tested in three virtual summer schools
during Corona in 2021



DAY 1 THURSDAY 8 SEP 2022		DAY 2 FRIDAY 9 SEP 2022		DAY 3 SATURDAY 10 SEP 2022	
Time	Activity description	Time	Activity description	Time	Activity description
16:00-18:00	Registration	09:00-09:30	Late registration	09:30-10:30	Interoperability
Where?		09:30-10:30	Introduction to Summer School and General Information	10:30-10:50	Coffee Break
Coffee Breaks:		10:30-10:50	Coffee Break	10:50-13:00	Interoperability
- YOU restaurante (weekdays);		10:50-13:00	Interoperability	13:00-14:00	Lunch break
- FMUP Entrance Hall (weekends).		13:00-14:00	Lunch break	14:00-16:00	Interoperability
Lectures: L5 classroom		14:00-16:00	Interoperability	16:00-16:20	Coffee Break
Wi-fi		16:00-16:20	Coffee Break	16:20-17:30	Interoperability
Use the browser to enter credentials		16:30-19:30	City Tour and visit		
Network: Uporto		20:00	Dinner		
User: eH4A					
Password: eH4A2022					
DAY 4 SUNDAY 11 SEP 2022		DAY 5 MONDAY 12 SEP 2022		DAY 6 TUESDAY 13 SEP 2022	
Time	Activity description	Time	Activity description	Time	Activity description
09:30-10:30	Data Protection & Security	09:30-10:30	Data Protection & Security	09:30-10:30	Data Analytics
10:30-10:50	Coffee Break	10:30-10:50	Coffee Break	10:30-10:50	Coffee Break
10:50-13:00	Data Protection & Security	10:50-13:00	Data Protection & Security	10:50-13:00	Data Analytics
13:00-14:00	Lunch break	13:00-14:00	Lunch break	13:00-14:00	Lunch break
14:00-16:00	Data Protection & Security	14:00-16:00	Data Analytics	14:00-16:00	Data Analytics
16:00-16:20	Coffee Break	16:00-16:20	Coffee Break	16:00-16:20	Coffee Break
16:20-17:30	Data Protection & Security	16:20-17:30	Data Analytics	16:30-17:30	Feedback and Evaluation
				17:30	Closing Social Event



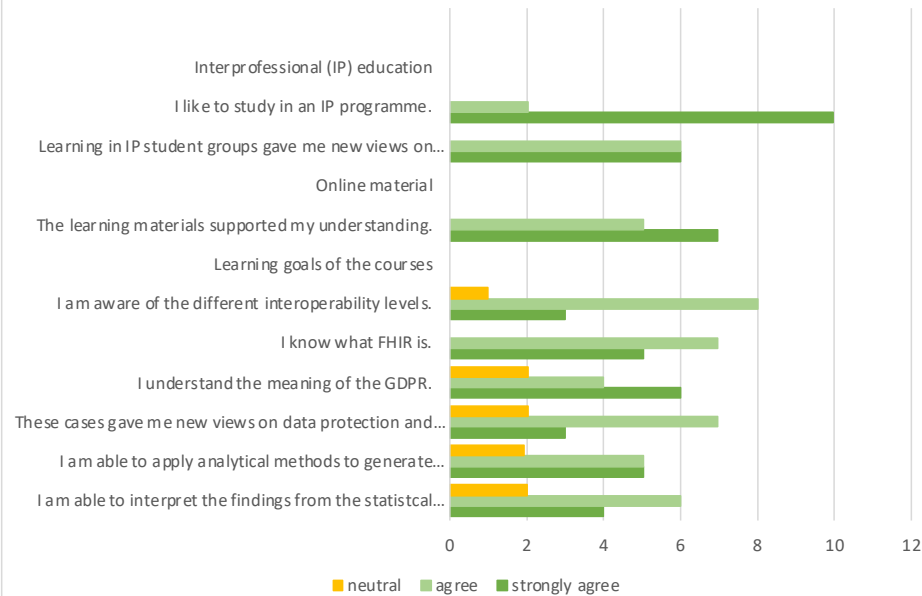
Evaluation results (n=12)

- The courses gave me inspiration and motivation to continue with my work back at home.*
- I enjoyed the week and would recommend participating in a summer school like this.*
- I felt very welcomed.*
- I think more students would have participated if the information about the program, travelling and financial support would have been given earlier and more transparent.*
- Sometimes difficult because of the different education levels.*
- Bad communication about the uploaded learning materials - a lot of stuff – it wasn't clear if it was necessary to work through all the stuff. If you have no basic knowledge, it's hard to understand it.*

With the support of the Erasmus+ Programme of the European Union



Questionnaire results





The Osnabrück Spring School: May 2023



Ursula H. HÜBNER, Pedro VIEIRA-MARQUES, Jens HÜSERS, Tiina HAUKKAKALLIO, Laura PHIPPS, Mari TIETZE, Nicole EGBERT



and students from
Austria, Brazil, Germany, The Netherlands and
Ukraine



Thank you for your interest and listening

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