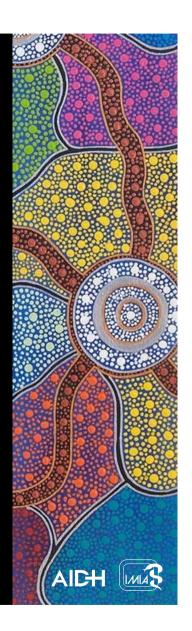




Lessons Learned from an Interprofessional European Summer School in Health Informatics

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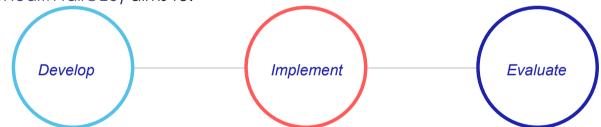


ERASMUS Strategic Partnership: eHealth4all@eu project

HOCHSCHULE OSNABRÜCK



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. U. PORTO











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







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?

Are we allowed to use these data?

How do we determine the local risks?

interoperability

data protection and security

clinical data analytics



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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

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The Porto Summer Som

Erasmus+ Programme of the European Union

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Online ten days preparation phase

Videos, texts, quizzes for all three modules

in moodle

Tested in three virtual summer schools during Corona in 2021

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DAY 1 THURSDAY 8 SEP 2022		DAY 2	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	
				10:50-13:00	Interoperability	
Coffee Brea		10:30-10:50	Coffee Break	13:00-14:00	Lunch break	
	staurante (weekdays);	10:50-13:00	Interoperability	13:00-14:00		
- FMUP Entrance Hall (weekends). Lectures : L5 classroom		13:00-14:00	Lunch break	14:00-16:00	Interoperability	
		13.00-14.00		16:00-16:20	Coffee Break	
		14:00-16:00	Interoperability	16:20-17:30	Interoperability	
Wi-fi	was to anter gradentials	16:00-16:20	Coffee Break			
Use the browser to enter credentials Network: Uporto User: eH4A Password: eH4A2022		16:30-19:30	City Tour and visit			
		20:00	Dinner			

DAY 4 SUNDAY 11 SEP 2022		DAY 5	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	



Description meals

Opening

Location

Opening Monday



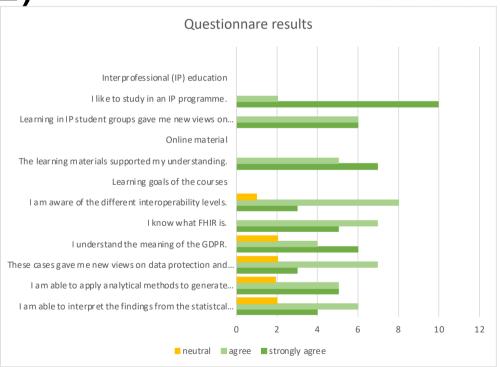




Evaluation results (n=12)



- 1. The courses gave me inspiration and motivation to continue with my work back at home.
- 2. I enjoyed the week and would recommend participating in a summer school like this.
- 3. I felt very welcomed.
- 4. 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.
- 5. Sometimes difficult because of the different education levels.
- 6. 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.



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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

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Thank you for your interest and listening

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