

Interprofessional Education for Capacity Building in Digital Health

organized by the European Federation for Medical Informatics and the European Society for Emergency Medicine

Thursday November 19, 2020 at 2pm-3pm CET

Register in advance for this webinar:

https://us02web.zoom.us/webinar/register/WN_Z1z7mwjvSCiVqlrPxnWu0Q

Overview

The objective of the session is to reflect on the educational instruments needed to build capacity in digital health in Europe with acceleration of digitization in the health and social care sector. ECHAlliance will update on progress of the EUHPP Thematic Network Joint Statement on profiling and training the healthcare workers of the future and on the DISH project initiative supported by the ERASMUS+ Programme. EFMI will present its EFMI Accreditation and Certification (AC2) Programme. The aspects of mobility, collaboration and exchange in the field of life-long interprofessional education across Europe will be highlighted as EFMI and EUSEM will discuss their strategic plans for cooperation in the area of education as a way of supporting the recommendations of the upcoming joint statement on profiling and training the healthcare workers of the future.

Preliminary Program

- *Catherine Chronaki, HL7 Europe, Vice-President EFMI: Opening remarks*
- **Opening Keynote:** *The changing education landscape in digital health in Germany and across Europe: the role of EFMI, Alfred Winter, Secretary EFMI, President GMDS*

Panel: Reflecting on educational initiatives in digital health: State of Play across Europe

- *Natalia Allegretti (ECHAlliance) reflects on the EUHPP Thematic Network 'Profiling and training the healthcare workers of the future' and on the Erasmus+ 'DISH - Digital & Innovation Skills Helix in Health' project.*
- *John Mantas (EFMI) reflects on the EFMI Accreditation and Certification (AC2) Programme and the survey of BMHI programmes in Europe.*
- *Luis Garcia Castrillo Riesgo (EUSEM) addresses interprofessional education speaking on the work of the European Society of Emergency Medicine (EUSEM) with EFMI on chief complaint and minimal data sets.*

Discussion will follow engaging the audience

- *Closing remarks, Catherine Chronaki*



Opening Keynote:

“The changing education landscape in Digital Health across Europe: the role of EFMI”

Professor Alfred Winter, Leipzig University, Secretary EFMI, President GMDS

Digital Health is enabled by Biomedical and Health Informatics (BMHI). BMHI is becoming both more specialized and broader. Not at every location in Europe all specialized knowledge can be taught to the same extent. We must use the opportunities of an open Europe for collaboration in education and have to support the mobility of students. Currently, the German member of EFMI, GMDS, is integrating various learning objectives catalogs and developing a tool for their use. The EFMI working group "Health Informatics for Interregional Cooperation" is developing an online multilingual terminology focusing on BMHI terms. By providing a unified BMHI terminology and a competence-based catalog of learning objectives, EFMI can ensure the comparability of learning units and support the targeted, needs-based selection of courses on a European level. BMHI must be taught both to future BMHI professionals and to future Health Care professionals including nurses and doctors. BMHI professionals must also acquire medical knowledge. By its close cooperation with the European Society for Emergency Medicine EUSEM, EFMI can incorporate the needs of the medical professions directly into its activities. Through its systematized accreditation and certification program, EFMI can certify the quality of course offerings based on learning objectives catalogs. Comparability, selectability and certified quality facilitate the Europe-wide mobility of students, especially in the ERASMUS program.



Alfred Winter is a Professor for medical informatics at the Institute of Medical Informatics, Statistics, and Epidemiology of the University of Leipzig, Germany. His research and teaching focuses on strategic information management and IT-service-management in health care and on modelling and analysing, health information systems. He chairs the Joint Expertise Center for Teaching in the SMITH consortium (SMITH-JET) of the German Medical Informatics Initiative.

EU Policy Perspective: EUHPP Thematic Network and Erasmus+ DISH

Natalia Allegretti Senior International Projects Manager ECHAlliance

A country's ability to cultivate a digitally capable health workforce is one of the most important enabling factors underpinning national success in digital health. Today's digital health or technology-enabled care landscape is one of telecare, health informatics and analytics, AI and robotics, public health and more, and still health workers often lack the training, skills, equipment and support necessary to adapt to this new setting. Digital literacy and continuous education of health and social care professionals in the knowledge, use and application of digital health are mandatory elements to deeply embracing the transformational benefits that innovations in science and technology can bring for patients, staff and healthcare systems. The COVID-19 global pandemic has made this issue even more urgent due to the rapid uptake of technologies by healthcare systems. In the space of few months, the implementation of digital health technologies to manage the pandemic and attempt to curb the spread of the virus has witnessed an unprecedented acceleration. The importance of digital upskilling of health care professionals and health education is, in fact, also stressed within the [EU4Health programme](#), the EU's response to COVID-19, that will be voted on October 12th. Creating the necessary "missing link" between the progressing digitalization of national health systems and the

lack of required skills through the implementation of professional education and training programs, can support the effective implementation of innovative, digitally supported, patient-centered and integrated models of care. In profiling the healthcare workforce of the future, essential is the identification of core competences to be developed and of the necessary skills-mix needed to co-create a healthy and fair future. Fortunately, many opportunities to improve this situation exist. It is for the EU health care stakeholder community to foster EU actions in the domain of health, namely through the) which also stress.

Two are the initiatives at European level, partnered by ECHAlliance, that will be presented in this relation: the EUHPP Thematic Network 'Profiling and training the healthcare workers of the future' and the Erasmus+ 'DISH - Digital & Innovation Skills Helix in Health' project.

The "Profiling and training the health care workers of the future", co-lead by Health First Europe and EHMA, is one of the three Thematic Networks hosted by the European Commission's Health Policy Platform. Officially kicked off on the 11th of February 2020 at the presence of DG Santé officers, the Thematic Network goal is to support the European Commission and its Member States in profiling the healthcare workers' needs for the future of care, identifying and improving their core competencies and pointing out their critical role in the debate about health system reforms, digitalization and new models of care. In a year time since its launch, the Thematic Network will produce a Joint Statement, consulting a large community of key stakeholders, containing concluding recommendations on health care workforce education, training and planning for the future of care, identifying their necessary skill-mix and the areas where EU collaboration and best practice sharing is more needed. The recommendations will also provide insights on key initiatives and programmes at European level, including the Communication of the Digital Transformation of health and care, Digital Europe and the upcoming Horizon Europe framework.

The Erasmus+ 'DISH - Digital & Innovation Skills Helix in Health', coordinated by Southern Denmark Region, is a three-year project started in November 2018, focusing on present and future skills needs of the health and social care workforce, in order to succeed with the necessary digitalisation in the healthcare sector. It aims at developing, testing and implementing different concepts, which will provide health and social care staff with innovation readiness and digital skills, enabling them to better see the opportunities in how and where to apply eHealth solutions. The project is addressing this key challenge by establishing a triple helix partnership consisting of health and social care providers, educational institutions and enterprise representatives in each of the 6 countries involved in the project. The three DISH concepts, pillars on which the project's activities are built on, are:

- The Learning innovation Units: An organisational concept providing a framework for co-creation which fosters multidisciplinary collaboration, innovative attitudes and team learning.
- The On-the-Job training: A concept oriented towards the achievement of concrete knowledge, skills, and competencies based on innovation and the daily use of the technologies in a secure simulation environment.
- The Skills and Competences Assessment: A conceptual model to assess and acknowledge the digital and innovation skills within health care staff, which are obtained outside the official education and training system.

By making use of the DISH concepts, the six DISH pilot sites are enrolling and offering training services at local level to health and social care workers. At the project end, a Sustainability Plan and Sector Skills Strategy will be issued by the DISH partners. The Plan will give concrete directions on how the DISH results can be transferred and upscaled beyond the project on a practical level within health and social care providers in Europe. On a more political level, the Strategy will outline those key factors

enabling the health and social care workforce in becoming, and remaining, digitally capable and the steps that countries can take in this respect, as part of accelerating progress in the digitalization of their national health systems.

Facilitated by the presence of two consortium partners in both initiatives, DISH activities and achievements will feed the Thematic Network discussion and, on the other hand, the Members of the Thematic Network will strengthen and enrich the composition of the DISH European Reference Group.



Natalia has been working for more than 25 years in an international context dealing with funds raising and related project management for the benefit of EU R&D projects, mostly focussed on the health and eHealth fields of expertise. Before joining ECHAlliance, she has covered many different positions in diverse contexts, from the Italian Ministry of University and Research DG for International Affairs, the Lombardy Region DG Welfare, to supporting research groups at national and EU level.

EFMI Initiative of Accreditation of Medical Informatics programmes in Europe. A mapping of the educational survey “

Professor John Mantas, University of Athens, Former President of EFMI, President of GBHI Biomedical and Health Informatics (BMHI) is the well-known scientific discipline of ICT in the health sciences. Nowadays, the application domain of BMHI is known as Digital Health and / or eHealth. Across Europe, a few educational institutions educate healthcare professionals in BMHI for being able to tackle the needs of Digital Health and eHealth applications in the healthcare domain. EFMI has initiated in the last years the Accreditation and Certification Committee (AC2) to ensure high quality of Medical Informatics education across the nations of the EFMI community in Europe. There are already two major accomplishments in this initiative, the mapping of the educational programmes across Europe, and the implementation of the accreditation process. More than 1000 programmes have been identified and registered in Europe. A database as well as a website have been developed to inform the members of the EFMI community of the existing programmes. Data collected include level of programme, degree, curriculum, number of credits and contact information. Comparison is made between countries and useful information is extracted and reported. The second outcome of the initiative is the accreditation process, where a detailed procedure is described, and the results of the site visits provide useful information on the implementation of international educational standards in Biomedical and Health Informatics. The quality of educational programmes ensures well trained and educated health informaticians and health care personnel in the continuously evolving needs of technological implementations in the healthcare field.



John Mantas is Professor of Health Informatics and Director of the Laboratory of Health Informatics at the National and Kapodistrian University of Athens. He has been President of the European

Federation for Medical Informatics for the period 2010-2012, and Vice President of the International Medical Informatics Association from 2012 to 2014. He is currently the chair of the EFMI AC2 Committee, and President of the GBHI.

EFMI – EUSEM Collaboration: Emergency Department Minimum Data sets and Chief Complaints Codification

Professor Luis Garcia Castrillo Riesgo, EUSEM Immediate Past President

The fast evolution on the IT support in all the health care systems has generated a gap in the education of the professional. Specifically, in the emergency care setting; doctors and nurse are practising with the increasing support of the IT, and it seems that it is going to maintain this tendency in the years to come more. At the European level, the education of the health professionals has been a primary concern and actions are taken in this direction. Scientific Societies play an essential role in continuous medical education, and the cooperation between different specialities generates a higher benefit on the field of training programs. EUSEM has created an intense collaboration with EFMI in areas as research, education, and dissemination, looking for the mutual benefit of our members and improvement in the process of care based on IT systems, looking to maximise their potential use. The main results of this partnership can be outlined as; research on the main complaint, co-participation in applications for EU calls, and webinars focus on educational activities.



Luis past ED Director and professor, at Hospital Universitario Marques Valdecilla, Cantabria, Spain and Immediate Past President of EUSEM. In his tenure as president, COVID-19 accelerated digitization of continuing medical education in Emergency Medicine.