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Enabling a Stronger, More Skilled Global eHealth Workforce

Session 401, March 6, 2018,

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Conflict of Interest

Rachelle Blake, PA, MHA

Has no real or apparent conflicts of interest to report.

Conflict of Interest

Stephan Schug, MD, MPH

Has no real or apparent conflicts of interest to report.

Agenda

- Welcome and Introductions (3 minutes)
- Presentation: The Genesis of the EU*US eHealth Work Project and HITComp HIMSS TIGER Initiative (7 minutes)
- Essential Conversation: Dialogue: Ongoing Stakeholder Engagement in the Project (20 minutes)
- Presentation: HIMSS TIGER Initiative and Results of the EU*US eHealth Work Project (10 minutes)
- Essential Conversation Part II: Dialogue and Action Planning: Your Contributions to the Global Dialogue of Digital Skills Advancement in Healthcare Workforce Development (20 minutes)

Learning Objectives

- Recognize how our global workforce development project is transforming educational, professional development and networking opportunities for interdisciplinary professionals and all members of the allied health team
- Share the results of our innovative work, including our global survey on eHealth skills, education and training needs, trends and status, the gap analysis of that survey, foundational curriculum in eHealth, case studies and more
- Apply real-world examples of competency, role and education mapping using the Health IT Competencies (HITComp) Tool & Repository, an open source and globally accessible workforce development resource, and learn how to use it to benefit yourself, your organization, and more

Learning Objectives (cont'd)

- Produce meaningful activities and discussions related to the EU*US eHealth Work Project and the HIMSS TIGER (Technology Informatics Guiding Education Reform) initiatives
- Discuss how to get involved with the EU*US eHealth Work Project, have a voice in the global dialogue of digital skills advancement in healthcare workforce development, and tap into the open source resources developed to aid the global eHealth workforce in transforming care and practice

Introduction

- You can become part of the ongoing transatlantic initiative that is making eHealth work!
- During this session, you will find out how the EU*US eHealth Work Project has been collaborating over the span of 18 months to measure, inform, educate and advance health information technology, digital skills and interprofessional healthcare education on a global level
- You will see the results of what the project has accomplished and hear how we will continue this important work on an ongoing basis through the HIMSS TIGER Initiative
- You can bring best practices, tools and resources developed through the project to your institutions, and learn how to get involved in this groundbreaking and innovative effort to empower the healthcare workforce with digital skills
- During our discussion today, we'll explore how you and your organization can help educate and train staff, assist interdisciplinary professionals as they progress throughout their careers, and provide management and administration with valuable workforce development benefits now and in the future

The EU*US eHealth Work Project Overview

- This Project is a follow-up to the EU-US Workforce Development Workgroup (WDW), led by the ONC
 - Started by a 2010 Memo of Understanding (MOU), the WDW included 20 months of mapping, competency synthesis and resource development, by global experts
 - concluded in 2015
- Begun in September 2016, EU*US eHealth Work is a 20-month European Commission funded project
 - involves research, analysis, resource/tool development, and dissemination and engagement activities related to the eHealth/health information technology workforce in the following streams:
 - Measuring eHealth skills, education and preparedness
 - Informing eHealth actors of progress made
 - Educating eHealth students and workers
 - Advancing the eHealth professions

Major outcomes of project:

- Survey of eHealth workforce current state and needs
- Findings and gap analysis of survey
- HITComp Update and Expansion
- Foundational eHealth Curricula Development
- Case Studies
- Interactive Web Platform/Skills and Knowledge Assessment Development Framework



The EU*US eHealth Work Project Overview (cont'd)

EU*US eHealth Work Consortium:



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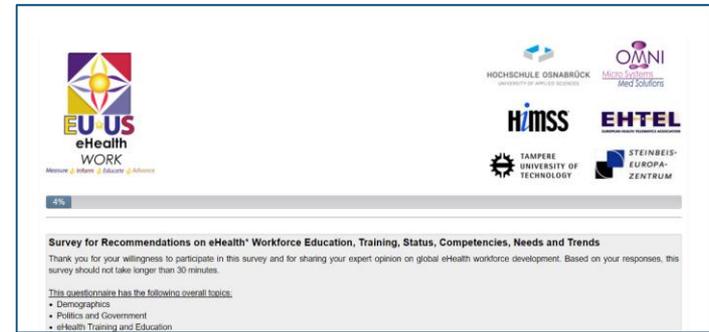


Hicham Abghay, Project Team Lead
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The EU*US eHealth Work Project Overview (cont'd)

- Survey:

- Flagship of project
- Comprehensive global survey of eHealth skills, education and competencies
 - 1,000+ respondents (450+ completed all questions)
- Survey addresses eight focus areas:
 - Availability of eHealth courses
 - Certification/certificates
 - Digital skills gaps
 - eHealth promotion/importance
 - Online tools/courses
 - Gender disparities
 - eHealth education funding
 - eHealth reputation in politics



The EU*US eHealth Work Project Overview (cont'd)

- Survey Findings/Gap Analysis:
 - there is a shortage of eHealth professionals, and there are gender disparities
 - eHealth professionals often are educated but do not have the correct skill set, are not adequately prepared for the first day of work, or do not have the digital skills necessary to perform their jobs
 - informal care givers are frequently not given any or are given inadequate eHealth training
 - instructors and teachers of eHealth need additional training and education
 - there is a lack of availability of quality and sufficient quantity of eHealth training at various levels for all healthcare professions
 - the healthcare infrastructure, system development and implementations often do not take into consideration the healthcare workforce as a necessary contributing factor
 - this is demonstrated by the ultimate non-usability of eHealth systems by the users for which they were designed
- 12 Recommendations for guidelines for “Best Practices” in eHealth workforce development education, training and skills were created by the Project Consortium as a result of the gaps and findings

Essential Conversation Part I:

- Based on what you have learned so far, how do you think we can use the survey results to positively impact improvement of health IT workforce development?
- How can we use the best practices recommendations to help inform interdisciplinary actors in healthcare regarding the importance of digital education and skills?

The EU*US eHealth Work Project Overview (cont'd)

- HITComp Update and Expansion:
 - What is the HITCOMP Tool? *Health Information Technology Competencies* - www.hitcomp.org
 - Begun in 2014 with the EU-US WDW
 - Unlike other resources, it is a tool that can be used for eHealth and digital skills research, educational development, skills assessment and career progression
 - There are over 1,000 competencies for eHealth professions, and over 250 eHealth roles listed within HITComp
 - Users can perform two types of searches: roles-based search or competency-based search
 - Also, eHealth educational resources are referenced where users can learn information reflected in the competencies



The EU*US eHealth Work Project Overview (cont'd)

- Foundational eHealth Curricula
 - The EU*US eHealth Foundational Curricula is a global introductory online course in eHealth, providing 60 hours of education, with basic eHealth competency upon completion
 - Includes 10 clusters, 21 modules, broken down into units in 40 different areas of competency
 - Areas of competency and all individual competencies comprehensively align with HITComp
 - Includes baseline digital skills education in healthcare for over 250 eHealth roles
 - Includes training modules and quizzes that can be used to define competency and are designed to align with certification programs

What is eHealth?
 • eHealth is the intersection of healthcare and information and communications technology (ICT) (electronic processes)

Example of Basic Inpatient Clinical Workflow (Manual Processes)

Multiple Choice

1. Which of the following healthcare providers are likely to be college/university educated and licensed?
 A) Nurses, doctors and pharmacists
 B) Psychologists, dentists and optometrists
 C) All of the above
 D) None of the above

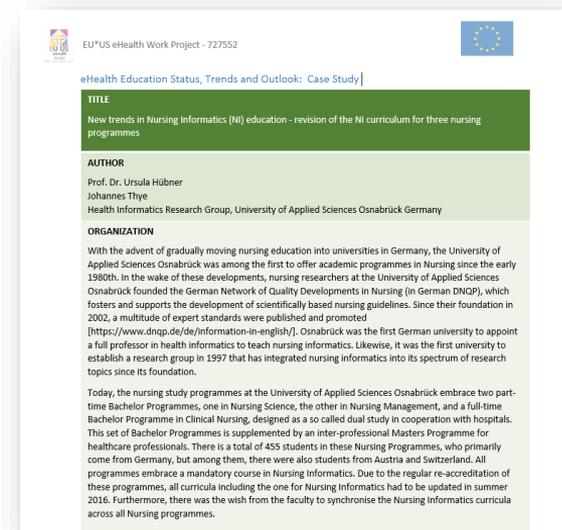
Quiz Results

You Scored	4
Maximum Score	4
Correct Questions	4
Total Questions	4

Please review the lecture material and try again!

The EU*US eHealth Work Project Overview (cont'd)

- Case Studies
 - Case studies include examples of institutions/organizations with strategies that showcase or demonstrate:
 - Real world cases of issues, challenges or gaps identified in our Survey and Gap Analysis
 - Remedies proposed, concepts identified or solutions implemented for bridging gaps and overcoming challenges
 - Examples of successes and best practices in eHealth education and training, skills preparation, competency assessment and workforce development
 - Includes case studies from major areas in the EU and US, as well as in select developing countries and regions



The EU*US eHealth Work Project Overview (cont'd)

- Interactive Web Platform
 - Depending on user type (e.g., student, job seeker, administrator, practicing clinician, etc.) , the user is presented with a “tree” of tools, resources, education and information (including career progression), pertinent to that user
 - The IWP is closely linked to the HIMSS TIGER Virtual Learning Environment (VLE)
- HIMSS TIGER (Technology Informatics Guiding Education Reform) Initiative is a Project Consortium member and responsible for development of several deliverables, tools & resources
 - TIGER advances the integration of health informatics to transform education and practice by:
 - Enabling the interprofessional clinical workforce to use informatics and technology to improve patient care
 - Interweaving evidence and technology into seamless practice, education and research
 - Fostering a learning health system
 - TIGER began as a grassroots initiative in 2006. In September 2014, TIGER transitioned to HIMSS.



The EU*US eHealth Work Project Overview (cont'd)

- The Skills and Knowledge Assessment Development (SKAD) Framework begins with a survey-based user-generated self-assessment of eHealth skill level
 - SKAD intersects with HITComp and will generate assessment questions based on competencies, user role, level and other parameters
 - SKAD is in development to be aligned with eHealth and HIT certification programs, such as HIMSS' CAHIMS/CPHIMS and other programs, such as EFMI (European Federation of Medical Informatics) certification

Use of Technology - Part One

Indicate how strongly you agree or disagree with the following:

	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
	1	2	3	4	5
a) I use an electronic health record in my daily work	<input type="radio"/>				
b) I am familiar with patient health records	<input type="radio"/>				
c) I understand the concept of interoperability	<input type="radio"/>				
d) I am familiar with telehealth tools	<input type="radio"/>				
e) I have used clinical decision support tools	<input type="radio"/>				

Submit

Question 1 of 10

The EU*US eHealth Work Project Overview (cont'd)

- Opportunities for stakeholder engagement:
 - website
 - newsletter
 - events
 - conferences
 - publications
 - case studies
- Contribute your voice!!!

Essential Conversation Part II:

- Dialogue: Which project tools and resources are most useful for health IT workforce development? How can you get involved in this work?
- Action Planning: What are our top priorities going forward to keep this work going?

Questions/Contacts

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- Reminder: Complete online session evaluation

