



GA N° 668353

H2020 Research and Innovation

Deliverable N°: D6.1

Title: eLearning program for the train the trainers concept

WP N° and Title: **WP6 – Training and education of health care professionals, patients and other stakeholders**

Lead beneficiary: **P3-BfArM**

Type: **Report**

Dissemination level: **Public**

Start date of project: 01/01/2016

Duration: 60 months

Due date of deliverable: Month 18

Actual submission date: 23/01/2017 (Month 13)

Comment: After launching the e-learning to the members of the U-PGx consortium, it was decided to make the e-learning open access so everyone who is interested can learn from it. Therefore, the password access has been removed.



Introduction

The needs of healthcare professionals regarding training towards pharmacogenomics implementation were filtered via a survey (D6.3). Upon the results of the survey, we created an e-learning program for the participating healthcare professionals in the 7 implementation sites addressing goals and topics of interest of PGx knowledge.

The due date of the e-learning program was delayed respecting the possibility to build up upon the results of the survey (please refer to D6.3). Hereby, a more directed e-learning could be created addressing more specifically the needs of U-PGx participants.

Results

The created e-learning platform can be used to spread the necessary PGx knowledge between the participating healthcare professionals in the implementation sites. Using electronic education methods, we offer lectures covering the main themes that are regarded necessary for the use and implementation of PGx. The e-learning program addresses to a heterogeneous group of professions (pharmacists, physicians, biochemist etc.) with an extensive range of work experience (1 – more than 20 years).

The e-learning consists of three main modules – lectures, case studies, and links to further information.

Lectures on following topics are available within the e-learning (presented as videos):

- “Introduction in pharmacogenomics”, Professor Magnus Ingelman-Sundberg (Karolinska Institute, Sweden) is giving a talk to introduce you in the field of pharmacogenomics.
- “Dose recommendations”, Professor Julia Stingl (Federal Institute for Drugs and Medical Devices, Germany) is giving a talk on dose adjustments based on genetic polymorphisms.
- “Drug efficacy and pharmacogenomics”, a talk on pharmacogenomics and drug efficacy by Dr. Katja Just (Federal Institute for Drugs and Medical Devices, Germany).
- “Drug safety and pharmacogenomics”, a talk on pharmacogenomics and drug safety given by Professor Julia Stingl (Federal Institute for Drugs and Medical Devices, Germany).
- “Dutch Pharmacogenomics Working Group guidelines”, a talk by Dr. Jesse Swen (Leiden University Medical Centre, Netherlands) introducing the DPWG guidelines and the G-standard respectively.

Case studies for every gene that is tested within the U-PGx study are presented. Those cases are mainly published in open-access journals and are aimed to motivate participants on further reading in the topic of PGx. Furthermore, within the cases questions are asked to enhance thinking along and learning. Answers are giving directly to participants for reward.

Cases are provided within the e-learning program as well as downloadable pdf-files for paper-based working depending on the electronic situation of individual implementation sites.

Links to further information are giving and explained including informative sites, like the U-PGx website, a link to the promotional video of U-PGx, and the The Pharmacogenomics Knowledgebase®. In addition, links to comparable projects are giving providing educational material by themselves for further reading like PG4KDS, the study trial implementing pharmacogenomics into clinic at the St. Jude Children's Research Hospital, the Personalized Medicine Program of the University of Florida



Health, PREDICT, launched by the Vanderbilt University, information (webinars, presentations, and publications on pharmacogenomics) by The American Society of Health-System Pharmacists (ASHP), and IGNITE -Implementing GeNomics In practiCE - a NIH-funded network dedicated to supporting the implementation of genomics in healthcare.

The e-learning was linked to the U-PGx website under study/ for professionals (<http://upgx.eu/study/>). Courses can be accessed via password (upgx-2020), that was send to the WP4 leaders.

The link was send out to the WP4 leaders of the implementation sites starting with implementation (Spain, Greek, Slovenia) in January 2017. The remaining implementation sites will be provided with the link when starting with implementation.

Summary/Conclusions

Training is offered by each partner for the country-specific groups of participating healthcare professionals (pharmacists, clinicians) and then further spread out to the participating personnel in each country and study site by the trained principal investigators. With this 'train-the trainer' concept, effective education throughout the medical community in each country is aimed to be achieved.