

IMPROVING THE UTILIZATION OF EMRS

BILINGUAL E-LEARNING FOR BELGIAN GPs



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Abstract

The Belgian societies of GP/FM, SSMG and DOMUS MEDICA, are running a bilingual e-learning SOAP and ICPC minded program to improve the use of EMRs by Belgian GPs.

The project is funded by a grant from NIHDI and supervised by the departments of GP/FM of the Free University of Brussel (ULB) and the University of Ghent (Ugent).

The team, four GPs and a computer scientist, have designed an interactive e-learning program that runs on a free open source Internet platform (DOKEOS). The program consists of a mix of theoretical concepts, case descriptions, interactive exercises and screenplays of consultations.

Aim of the e-learning

"Increase the quality of medical information processing and exchange to improve the effectiveness, quality, safety and continuity of health care"

Intermediate goals:

Learn the basis of the coding process in EMRs and increase the Belgian GPs' understanding of :

- the structural concepts and their relation to the architecture of a EMR : the approach SOAP and the concept of "episode"
- the coding process in the EMR : classifications and terminologies
- the health information network and the tools for decision support

Methodology

The project has been designed and fine-tuned over the course of a year in order to achieve an interactive and bilingual e-learning program (French and Dutch).

The continuous dialogue and collaboration between two different languages and cultures facilitated the elaboration of an e-learning that will be easily applicable in various other countries.

A multimodal strategy was used to explain the necessary theoretical concepts and their applications and benefits. Illustrative roll plays, interactive progressive coding exercises (in the form of a quiz) and key messages are parts of every module.

Used materials are texts, videos, slideshow with narration, exercises, a terminology (3-BT)/classification (ICPC/ICD -10) server and pictures.

Throughout the course and at the end of it, exercises with feedback are proposed to enable the learner to test his knowledge.

The e-learning runs on a free open source internet platform (DOKEOS), making sequential and free navigating of the elearning modules possible.

Results

The e-learning program consists of 6 modules and a bibliography.

Module 1 : Aims and structure of the e-learning.

Module 2 : How clinical information is transferred to the EMR : using SOAP, episode and problem list.

Module 3 : How the computer translates this information in a universal language : using classifications and terminologies.

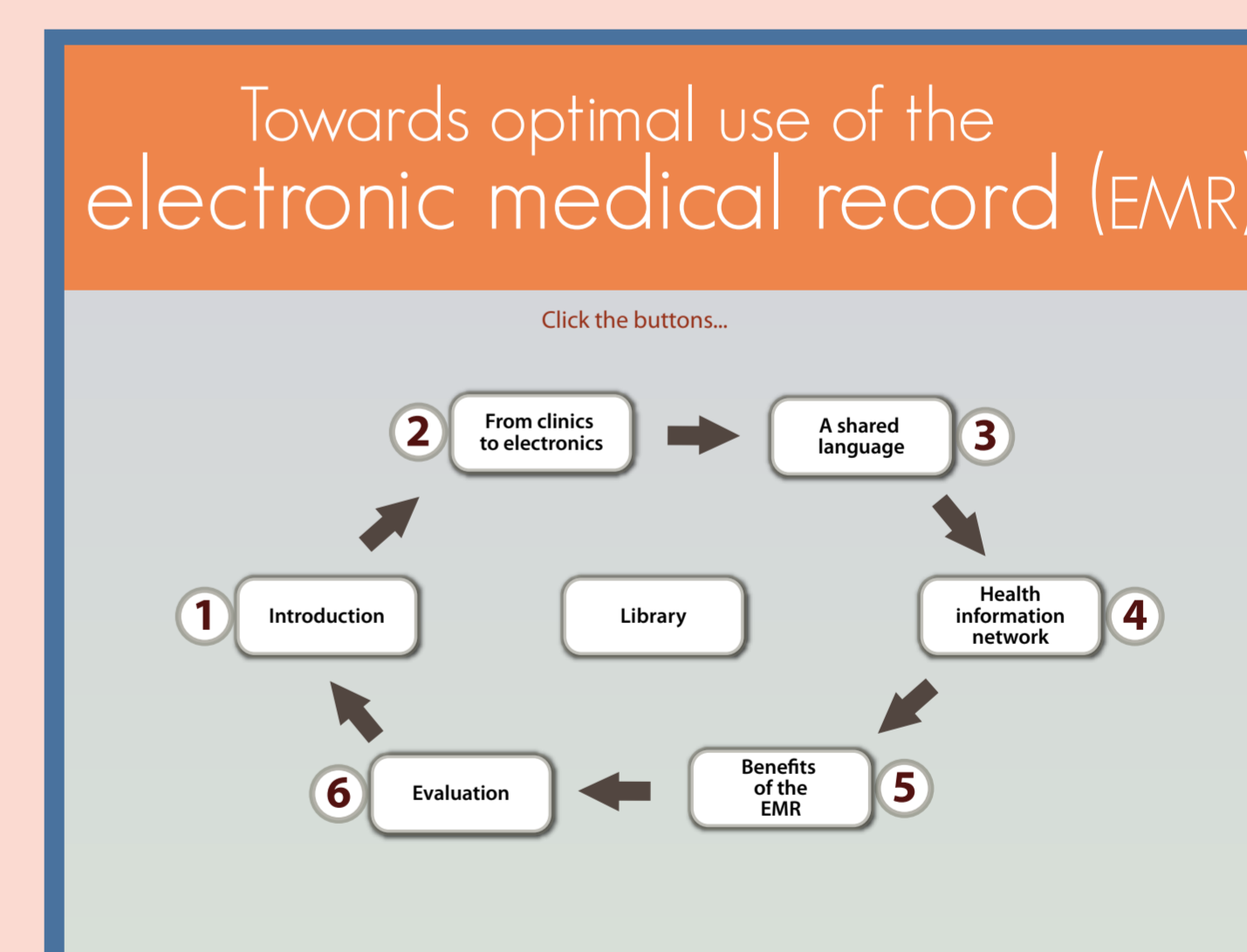
Module 4 : The strength of this universal language to generate "SUMmarized Electronic Health Record" and to use "medical information networks" like the Belgian e-health platform and "decision support tools" like the CEBAM evidence linker.

Module 5 : Benefits and practical use of the EMR.

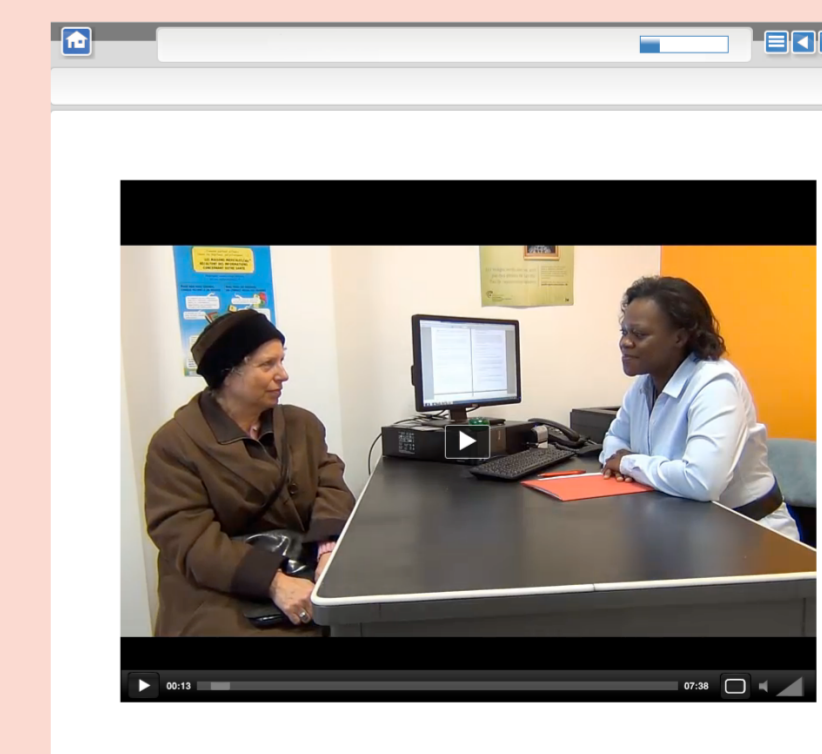
Module 6 : Self-evaluation and evaluation of the elearning.

Bibliography

Home page of the e-learning



Roll plays



The e-learning was purposely built to facilitate translations into others languages.

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