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www.virtualpatients.eu

Report on set of new repurposed standards compliant VPs, with metadata, and packaged, for multi-lingual access

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¹ OJ L 79, 24.3.2005, p. 1.

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1 Introduction

The interoperability of virtual patients requires the use of a uniform exchange format, which is accepted by various providers of medical e-learning services. The eViP consortium proposed such a format in D2.1 by profiling the MedBiquitous MVP and IEEE LOM specifications.

In D2.2 the eViP technical reference group reported on the accomplished implementation of the eViP application profile in four partner VP systems: CAMPUS, CASUS, Open Labyrinth and Web-SP. The implementation included both the import and export functionality. In addition, the usage of external specifications like QTI and W3C Timed Text DFXP in eViP profiled packages has been successfully tested.

Following further the road towards a common repository of repurposed virtual patients, the next step is the export of cases from proprietary VP systems to packages in the exchangeable format. These resources will eventually populate the common eViP database.

The role of this deliverable is to report on the process of exporting eViP profile conformant content packages from the partner systems and make four VP packages publically available.

A set of four VP cases, one from each partner eViP system, has been selected as a test sample, exported (using functions described in D2.2) and published on-line. All packages are eViP profile 2.0.1 conformant and contain metadata that enables the content to be searchable. The content of the cases is indexed by international classifications ICD-10 (CAMPUS, CASUS, Open Labyrinth) and MeSH (Open Labyrinth, Web-SP). Even though the systems represent different languages and cultures all metadata (and even the content of the VPs in the sample) is available in English, which enables an easy multi-lingual access and further repurposing. The cases represent all distinguished in D2.2 models of VPs (linear, semi-linear, terminology-based and branched), various medical disciplines (pediatrics, infectious diseases, radiology) and different kind of media (text, images, movies). The case exported from CAMPUS system contains additionally subtitles from movies stored in W3C TT DFXP embedded as extension of the MVP content (as recommended by the eViP Best Practice Guidelines - D2.3b). This facilitates both a better multi-lingual access and support for hearing impaired. The case exported from the CASUS system contains questions in QTI format (also recommended by D2.3b) that enable a formative interactive knowledge assessment in systems that support this format. This case contains three types of questions (MCQ, sorting and free-text).

2 Repurposed Virtual Patients

This chapter presents systematically the four exported virtual patients.

The VP packages can be downloaded from the public eViP site:

<http://www.virtualpatients.eu/sample-vp-packages/>

2.1 eViP VP Package 1

VP system:	CAMPUS VP
Model:	Semi-linear, Terminology based
Patient id:	evip:vp:1000263
Patient name:	Katrin M.
Description:	Bacterial meningitis; procedures with suspected meningitis. Differential diagnoses: pneumonia, urinary tract infection

2.2 eViP VP Package 2

VP system:	CASUS
Model:	Linear
Patient id:	evip:vp:1000131
Patient name:	43 year old saleswoman presented with dyspnea
Description:	This case shows criterias for radiography of the chest.

2.3 eViP VP Package 3

VP system:	OpenLabyrinth
Model:	Branched
Patient id:	evip:vp:1000007
Patient name:	Joseph Ansah
Description:	25 year old patient with Malaria

2.4 eViP VP Package 4

VP system:	Web-SP
Model:	Semi-linear
Patient id:	evip:vp:1000114
Patient name:	Tom P Miller
Description:	Patient with symptoms of pneumonia