

# **CPMS: eHealth IT platform for collaborative cross-border healthcare for rare disease experts in Europe**

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Date: 29/09/2017

Submission type: Poster

# Title

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## Abstract

European Reference Networks (ERNs) are virtual networks involving healthcare providers across Europe. They aim to tackle complex or rare diseases and conditions that require highly specialised treatment and concentrated knowledge and resources<sup>1</sup>. In this paper, OpenApp address which modern communication technologies have been incorporated into Clinical Patient Management System (CPMS) to connect those experts from various specialized ERNs across many disease areas to exchange information and knowledge for virtual collaborative and quality care<sup>2</sup>.

OpenApp as eHealth solution provider, with unique position in rare diseases patient registries and clinical information systems, has leveraged the cutting-edge technologies and security standards to deliver CPMS for its clinical and research use as well as complying with European data protection regulations.

Effectively, CPMS is a revolutionising technological tool to provide capacity for cross-border virtual consultations, e-Learning and research environments in thousands of healthcare units across Europe. CPMS will connect rare disease experts to simplify disease management and improve patient care<sup>3</sup>. Nevertheless, CPMS makes consented anonymized clinical data from completed virtual consultations, available for authorized researchers in a separate research environment. Moreover, novel concepts were implemented to consider multi-level role based access rights.

Technically, CPMS comprises radiology and pathology viewers integrated with PACS system to view and store medical images, in addition to a video conferencing technology known as WebRTC<sup>4</sup>. From standardization perspective, CPMS uses multiple coding and terminology systems to collect patient demographic and clinical data as well as viewing standardized medical documents (e.g. CDA and DICOM). CPMS provides several options for document and file transfer namely; direct upload, Integrating Healthcare for Enterprises (IHE), and File Transport Protocol (FTP).

In conclusion, the contracting authority “European Commission” has approved CPMS, as a secured platform fulfilling various needs of ERNs, to improve patient care, and exploit anonymised clinical data for research and education in rare diseases.

## Key Words

European Reference Network, Rare Diseases, CPMS

## Suggested Presentation Method

Poster

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1 [https://ec.europa.eu/health/ern/policy\\_en](https://ec.europa.eu/health/ern/policy_en)

2 Lynch SA, Casey. J. Will European reference networks benefit all EU patients with rare diseases, *Rare Dis Res & Treatment*. (2016) 1(1): 9-11

3 Domenica Taruscio, Amalia E. Gentile, Teresinha Evangelista, Rosa G. Frazzica, Kate Bushby, Antoni Moliner Montserrat. Centres of Expertise and European Reference Networks: key issues in the field of rare diseases. The EUCERD Recommendations. Domenica Taruscio et al., *Blood Transfus*. 2014 Apr; 12(Suppl 3): s621–s625. doi: 10.2450/2014.0026-14s

4 Public consultation on the implementation European Reference Networks (ERN). Directive 2011/24/EU of the European Parliament and of the Council of 9 March 2011 on the application of patients' rights in cross-border healthcare