

# **Implementation of the formalized medical guidelines in the electronic health record MUDR**

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**Abstract.** Important research task of the EuroMISE Center – Cardio is applied research in the field of electronic health record (EHR). In this frame a pilot 3-layer universal EHR application “MULTimedia Distributed Record” (MUDR) was developed. Article describes the architecture of the developed system, the graph representation of patient data and the access of the integrated medical guideline libraries to the MUDR health record using the application interface MUDR API. Finally, the extraction of the relevant information about the patients health using the implemented hypertension library is mentioned.