

EuroHeart Registry IT Platform

Enhancing cardiovascular
data sharing by
adopting standards for
interoperability that aligns
with EHDS.



EuroHeart

EuroHeart, a programme of the ESC with UCR and the University of Leeds



Abstract

The EuroHeart registry IT platform is a robust and modular system designed to support clinical quality registries within the EuroHeart collaboration. Integrating Fast Healthcare Interoperability Resources (FHIR) and Health Level Seven (HL7) standards into this platform can significantly enhance its capabilities, ensuring seamless data exchange, improved interoperability, and better healthcare outcomes. This white paper explores the benefits of incorporating FHIR into the EuroHeart registry IT platform.

Introduction

The EuroHeart registry IT platform provides a reliable foundation for clinical quality registries, including pre-built data entry forms, mandatory data sets, and quality indicators. As healthcare systems evolve, the need for efficient data exchange and interoperability becomes a necessity. FHIR is the globally recognised standard that facilitate secure and reliable health data sharing.

As Ireland's EuroHeart Registry Centre (EHRC) now have mapped the EuroHeart ACS-PCI mandatory data set to SNOMED, a standard that enables the use of FHIR, the benefits of the FHIR adapted APIs can be utilized for easy and correct data exchange. The enhancement of the EuroHeart platform with APIs supporting these standards can offer numerous advantages.

Benefits of FHIR and HL7 Integration

1. Enhanced Interoperability

FHIR enables seamless data exchange between different healthcare systems, ensuring that patient information is readily available across various platforms. This interoperability is crucial for comprehensive patient care and efficient clinical workflows.

2. Improved Data Quality

By standardising data formats and exchange protocols, FHIR helps to maintain high data quality and consistency. This ensures that the information collected in the EuroHeart registry is accurate, reliable, and easily interpretable.

3. Streamlined Data Collection

The integration of FHIR allows for automated data collection from electronic health records (EHRs) and other healthcare systems. This reduces the need for manual data entry, minimizing errors and saving time for healthcare professionals.

4. Scalability and Flexibility

The modular architecture of the EuroHeart platform, combined with the FHIR standard, allows for continuous development and addition of new features. This scalability ensures that the platform can adapt to future requirements and support a growing number of users and registries.

5. Cost-Effective Implementation

The use of FHIR standard can reduce the costs associated with data integration and interoperability. By leveraging existing standards, the EuroHeart platform can avoid the expenses of developing proprietary solutions and benefit from the widespread adoption of this standard.

6. Enhanced Patient Care

With better data exchange and interoperability, healthcare providers can access comprehensive patient information, leading to more informed decision-making and improved patient outcomes. This is particularly important for managing chronic diseases and coordinating care across different healthcare settings.

CONCLUSION

Integrating FHIR into the EuroHeart registry IT platform offers numerous benefits, including enhanced interoperability, improved data quality, streamlined data collection, scalability, and improved quality in patient care. By adopting this standard to the EuroHeart platform we strengthen this solid foundation for clinical quality registries and aligns with ongoing development of healthcare systems based on globally recognised standards to meet European Health Data Space (EHDS) and similar requirements and initiatives.



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Target audience

Positioning paper for Strategic Leadership and Senior Executives within Healthcare Development and Health Data Management.