Putting data to work for the public’s health in Portugal

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Portuguese eHealth Information EcoSystem
Global eHealth at the core of Portugal’s national digital health strategy

Information systems
National Health System, Health Professionals & Citizens

eHealth International cooperation
Advancing Innovation, Learning & sharing experiences

National eHealth Authority
Cross-border eHealth policy & technical cooperation
e – NATIONAL HEALTH (INFORMATION) SYSTEM

- 10 MILLION CITIZENS
- 54 PUBLIC HOSPITALS
- 1.294 PRIMARY CARE UNITS
- 90% RUNNING SPMS ICT SOLUTIONS (ADT AND EHR)
Diseases have no borders! Portugal needs to build digital continuity of care
Towards a Global eHealth Community
SPMS towards a Global eHealth Community

Personalized Medicine
Privacy & Securty of my Health Data
Prevention

Individual Planned Care
Portability of Healthdata
Access and availability of EHR

Towards a Global eHealth Community

Secondary use of Healthdata
Public Health;
Research Genomics;
Data Quality
Artificial Intelligence

Citizens
Healthcare Professionals
Healthcare Organisations
Policy Makers

Myhealth@EU
Primary Use of Data
Cross-Border Health Data Sharing

Available Services

Patient Summary + ePrescription/eDispensation

Portugal already makes its data available cross-border with 10 countries!!

Malta
Croatia
Estonia
Finland
Luxembourg
Spain
Czech Republic
Poland
The Netherlands
France
What are the next available services in EEHRxF?

- Medical Images and Reports
- Discharge Reports
- Laboratory Results
- Rare Diseases (Patient Summary)
A SPMS is the coordinator of X-eHealth project. X-eHealth stands herein for a project of strategic relevance for tomorrow’s European eHealth Union. Assembling a shared commitment of 47 health actors.

The key goals are to:

- Improve the healthcare quality and safety for citizens by allowing them to access and manage their electronic health record from any place in the EU;
- Contribute to standardisation and harmonisation of eHealth services in the EU by setting European agreements on diverse levels of interoperability;
- Contribute to defragmentation of European services;
- Facilitate interaction between patients and healthcare providers, to support disease prevention and citizen empowerment.
Building the *next generation* (e-)National Health Service in Portugal
National digital Strategy and the Resilience and Recovery Plan (RRP)

How we face innovation
National Strategy for the Health Information Ecosystem

4 Axis

- Reinforcement of information sharing between Systems
- Therapeutic reconciliation systems;
- Reinforcement of the dematerialization of all medicine areas systems
- Consolidated interoperability platform;

- Replacement of the computer park;
- Development of two core infrastructure hubs;
- Strengthening information security and cybersecurity
- Development of a Data Lake
- Implementing and Streamlining the SNS Private Cloud

- Transversal, single and integrated system of Primary Health Care, Hospital Health Care and Integrated Continuing Care
- Replacement of information systems and Strengthening information portability and integration between information systems
- Debureaucratization of administrative processes and acts
- Information aggregation methodologies

Citizen-centric omnichannel platform;
Predictive and intelligent behavior in information systems for the Citizen;
Strengthening portability and access control to health data;
Availability of systems and equipment necessary for collection,
Expanding the offer of telehealth tools, Create conditions for greater mobility;

- Debureaucratization of administrative processes and acts
- Information aggregation methodologies
Building the next generation National Health Service

**Development of a Data Lake (massive repository of native data)**
Universal and transversal to the NHS, as a way to ensure the future of data intelligence needs and intelligent decision support systems for any scope of information and knowledge.

**Artificial Intelligence in Health**
Creation of a laboratory for the development, testing and implementation of solutions to support professional activities, based on algorithms and artificial intelligence mechanisms.

**BI in Health**
Creation of new business intelligence tools and development of existing ones to support the exercise of the activity and the evolution of digital tools at the service of health professionals.

**Identification of the data structure of the Electronic Health Record (EHR) / Single Clinical Process (PCU)**
Identification and specification of data structures, based on international standards, that make up the user's EHR/PCU, based on the developed normative framework.
Health Intelligence Lab: Create actionable data using Artificial Intelligence

Use NHS health data ecosystem as a *real world* laboratory for R&D to improve health.
Advance secondary use of data in priority domains, anticipate and manage risks associated with AI.

GOALS:
- Safe and responsible AI for health
- Translate stored NHS data into useful AI-backed tools
- Test and scale Innovative IT solutions
- Establish NHS testing environment
- Partnerships with academic institutions, public and private sector organizations
- Promote NHS efficiency, safety and quality
Thank You