

The Huge Power of Connected Data:

Digital Transformation of Patient Registries

September 12th, 2023 Clare Harney



TOPICS TO BE COVERED

- Introduction to Patient Registries
- A broad view of a patient registry
- Challenges
- Connecting data in registries
- Vision for the Future

ABOUT PATIENT REGISTRIES

A patient registry is a secure, centralised database, containing health data on people with a specific diagnosis or condition.

Aims:

- provide information to the public on the number of people with a particular diagnosis in Ireland and their health status
- collect and analyse health information to help assess and plan health services for people with the diagnosis or condition
- monitor the safety and effectiveness of treatments
- compare the health of people with a condition in Ireland to the health of those in other countries
- produce publicly available reports each year that summarise registry information on the health status of people with a condition in Ireland
- provide an information service to governmental agencies, health boards, hospitals, health care professionals, approved researchers and patient advocacy organisations
- contribute to research at home and abroad.

CF REGISTRY TIMELINE







CFRI established 2001



Independent organisation with a constitution 2005



Service Level Agreement with HSE 2011 Change governance to CLG 2018





















HRB-funded research project allowed addition of internal personnel

2008





Setup funding CFAI & Dept of Health

Annual Grant DoH - HSE Contract funding



The Cystic Fibrosis Registry of Ireland

REGISTRIES – A BROAD VIEW - PRESENT

- 2017 120 National Health & Social Care Data Collections HIQA
 - Less than 20 are disease registries
- MRCG/HSE 2012 Patient Registry Survey 47 identified
 - -69% less than 3 staff members
 - Often dependent on a single visionary / mentor
 - Majority operating on limited funding
- Without the proper resources it is an uphill battle



CONNECTING DATA IN REGISTRIES - CHALLENGES



Domestic

Registries are too paper dependent
Silos of unconnected data that could feed registries
Centre to national
Patient connectivity



International

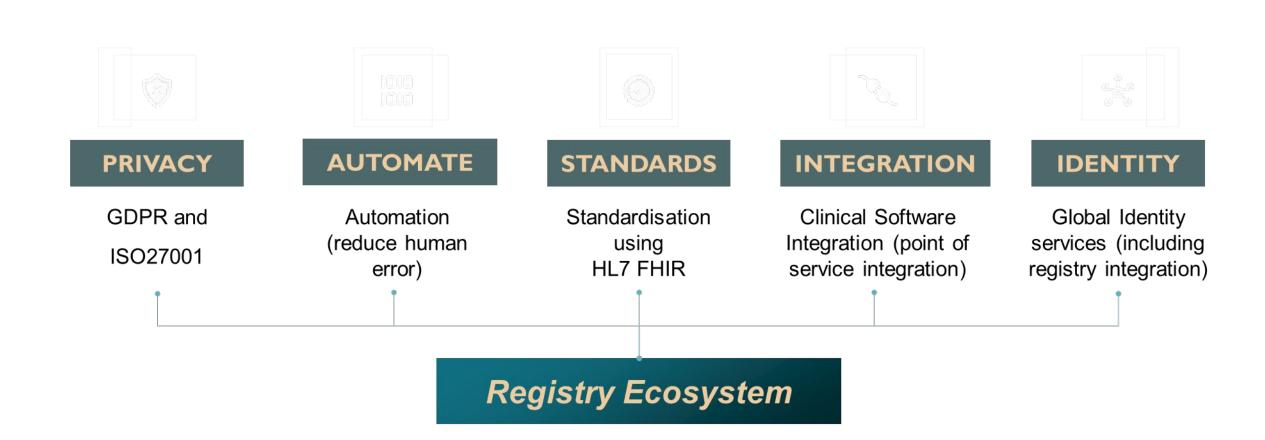
Be part of an international community
Retain ownership
Common standards and definitions

CONNECTING DATA IN REGISTRIES – A REGISTRY ECOSYSTEM

REGISTRY ECOSYSTEM

The registry ecosystem encompasses various elements that work separately but also together to ensure the successful functioning of registries and their contribution to healthcare research, patient care, and public health.

CONNECTING DATA IN REGISTRIES – HOW? KEY FEATURES



CONNECTING DATA IN REGISTRIES – CORE SERVICES



Data Capturing and Quality

Collecting, storing, and organizing patient-related information electronically within a healthcare system reduces human error and enforce quality. EHR's can integrate via standardized protocols (HL7 FHIR) enhancing interoperability.



Consent

Collecting, recording, storing, and managing the informed consent given by individuals ensures that individuals' rights are respected, and their decisions are properly documented and honored.



Registry Collaboration

Engaging in patient pool sharing across registries adopts a comprehensive perspective on interconnected medical conditions, diseases, treatments, or patient populations. This practice facilitates the consolidation of data from various sources, fostering improved research, insights, and outcomes.



Reporting

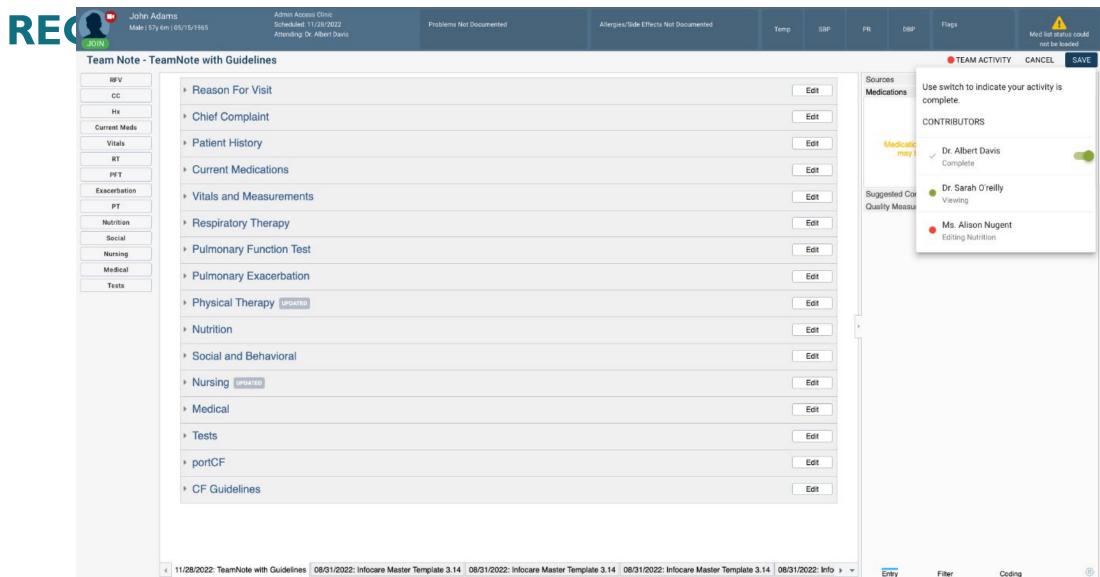
Empowered by robust reporting tools, users can craft personalized Dashboards and Reports that cater precisely to their unique needs.

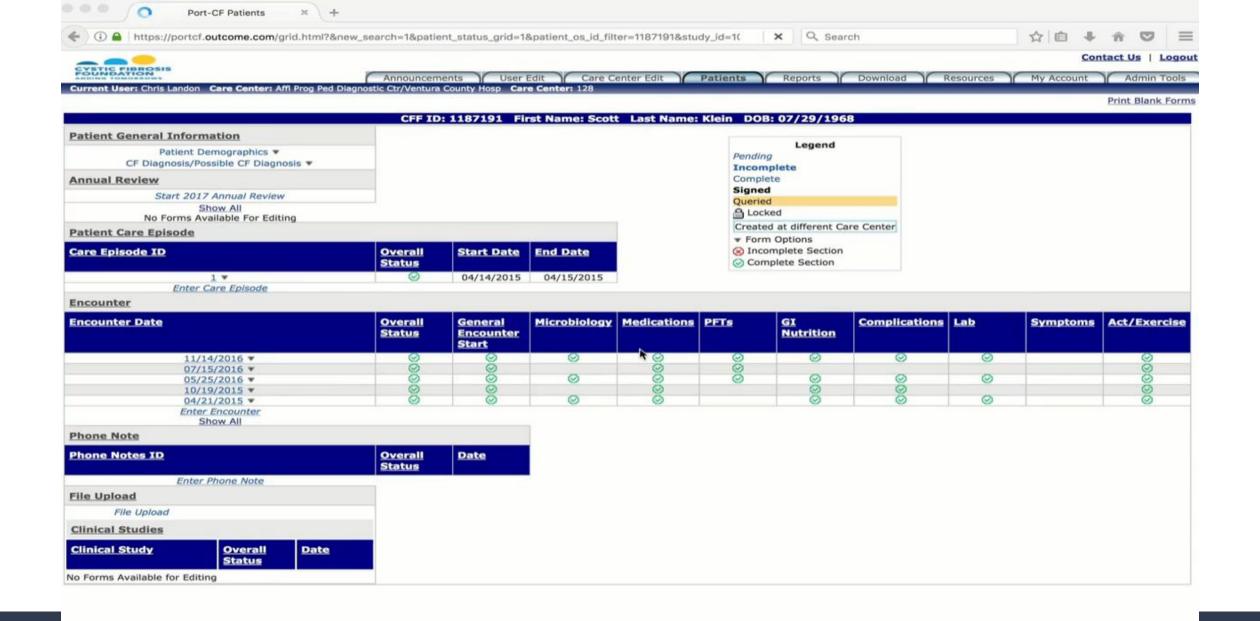


Auditing

Auditing serves as a critical tool for maintaining transparency, accountability, and quality in various domains, including operations, information security, and compliance.

DIGITAL CLINICAL WORKFLOW FOR PATIENT





AN INDEPENDENT FEDERATION OF DIGITISED PATIENT REGISTRIES

Vision

- An Independent Federation of Registries
- ► A trusted third party filling gaps in health intelligence
- Appropriately funded
- Sharing common resources







UNLOCKING THE POTENTIAL OF PATIENT REGISTRIES: A GUIDE FOR SUCCESS



Thank you!

