2nd BRIDGE HEALTH Meeting of the EUBIROD Network

21th September 2017, Nicosia, CYPRUS



Slovenia

Iztok Štotl

Different levels of data sources and analytics

Pediatric patients

- Tertiary and secondary centers
- Primary level and "model practices"
- Administrative database
- Different telemedicine providers emerging

Different levels of data sources and analytics

Without common connecting layer

- Clinical data about adult patients with diabetes isn't collected nationally in an effective manner,
- Only administrative national database is available for analysis at the moment.

National Registry of Childhood Diabetes

- All children and adolescents with newly diagnosed diabetes are referred to only one central institution:
 - Department of Pediatric Endocrinology, Diabetes and Metabolism (DPEDM) - University Medical Center - University Children's Hospital, Ljubljana



- Responsible for the Slovenian National Registry of Childhood Diabetes (SNRCD) since 1970.
- Active member of the original EUBIROD project with providing data and expertise for pediatric section.

Registry of Childhood Diabetes: methodology

- Long and rich tradition in registry methodology and technology.
- In the last years, they have further improved their database technology based on state of the art technology and industry standards such as:
 - OpenEHR
 - IHE
 - HL7



Pediatric clinic participates in international data collection and benchmarking within the Centre of Reference SWEET project



openEHR

Registry of Adult Patients with Diabetes

- Department of Endocrinology, Diabetes and Metabolic Diseases (DEDMD), University Medical Centre Ljubljana, is responsible for Slovenian National Registry of Adult Patients with Diabetes.
- Data collection for this registry started in 1982.



Only limited number of diabetic patients are included at the time, different local databases in Slovenia.

BIRO in adult population

- DEDMD was associated partner in original EUBIROD project
- didn't participate with data from adult patients in the original EUBIROD project.
- 2013 BIRO report: DEDMD started to test BIRO on data from adult population with pilot survey of 100 patients.
- 2014 BIRO report: Extended analysis to almost 2000 patients. Data was collected from local EHR in single tertiary diabetes center.
- 2017 BIRO report: Pilot analysis with BIRO was extended to one primary and secondary center

Primary care - "model practices"

- Several obstacles to quality diabetes care in family practices in the past:
 - The National Insurance Company did not fully cover regular laboratory testing
 - Education of patients was not available within the primary practice team.
 - The quality of care for patients was not followed.

From 2011, a new concept of work in family medicine

- Chronic care with a detailed description of the professional responsibilities of physicians, practice nurses and nurse practitioners.
- Nurse practitioners created or completed previously existing registers of chronic patients.

National institute of health

- Core public health indicators (incidence, prevalence by different criteria) are regularly compiled.
- Data sources for these indicators are databases defined in National Health Databases Act:
 - Causes of Death Registry,
 - National Hospital Discharge Database,
 - Ambulatory Prescribed Medicines Databases,
 - some other databases.
- The same data sources used for preparation of some quality indicators at national level; reported to international organizations (OECD).

M-health (telemedicine)

Some pilot studies performed for evaluation of m-health approaches in Slovenia

- United4Health project
- Different providers solutions
- some studies of telehealth Diabetes application

Debates about national solution/layer

Governance- ongoing process

Efforts to consolidate governance of Slovenian National Registry of Diabetes.

- To formalize a national governance body, which would include different stakeholders and would be responsible for:
 - efficient and transparent national diabetes registry
 - standards for information exchange.

Conclusions

 Advanced and modern database for pediatric registry with large majority of pediatric patients included
Still a lot of work for adult population with diabetes

EUBIROD network very important partner for future



