

National Diabetes Registry (CroDiab)

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IDF World Diabetes Congress 2022, Lisbon Dec 5th-8th
Best Information for People with Diabetes: towards person-centred diabetes indicators in Europe, Symposium
8 December 2022, 15:45 - 17:00

Conflict of Interest Disclosure:

Tamara Poljičanin, MD, PhD,

- Sanofi, Salveo, Salvus
 - Training of employees in the field of data analysis interpretation and real world evidence/data, payment to me
- Sanofi
 - Data analysis - hypoglycemia in patients on insulin therapy, payment to Croatian Institute of Public Health

Tamara Buble, MA

- I DO NOT have a conflict of interest

CroDiab

Established in 2000

Since 2004 mandatory for all primary and secondary health care physicians who have people with diabetes in their care

Aim

Improving the health care of persons with diabetes

Holder

Croatian Institute of Public Health

Collection and data analysis

University clinic Vuk Vrhovac 2000 - 2015

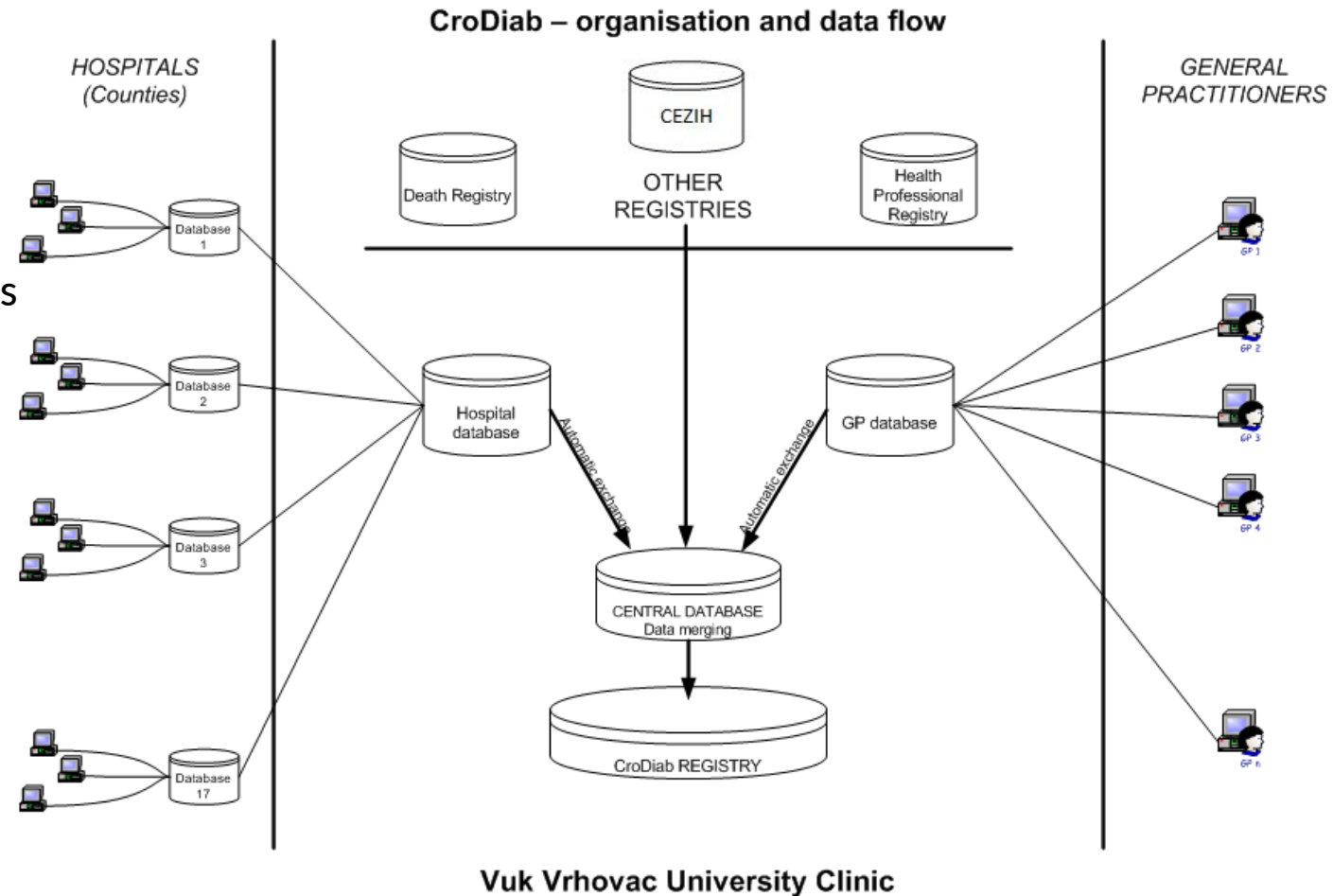
Croatian Institute of Public Health - 2016 -

History

paper forms

CroDiab NET – desktop application in DM centres/ hospitals

CroDiab WEB – web application (reporting, monitoring, analysis)

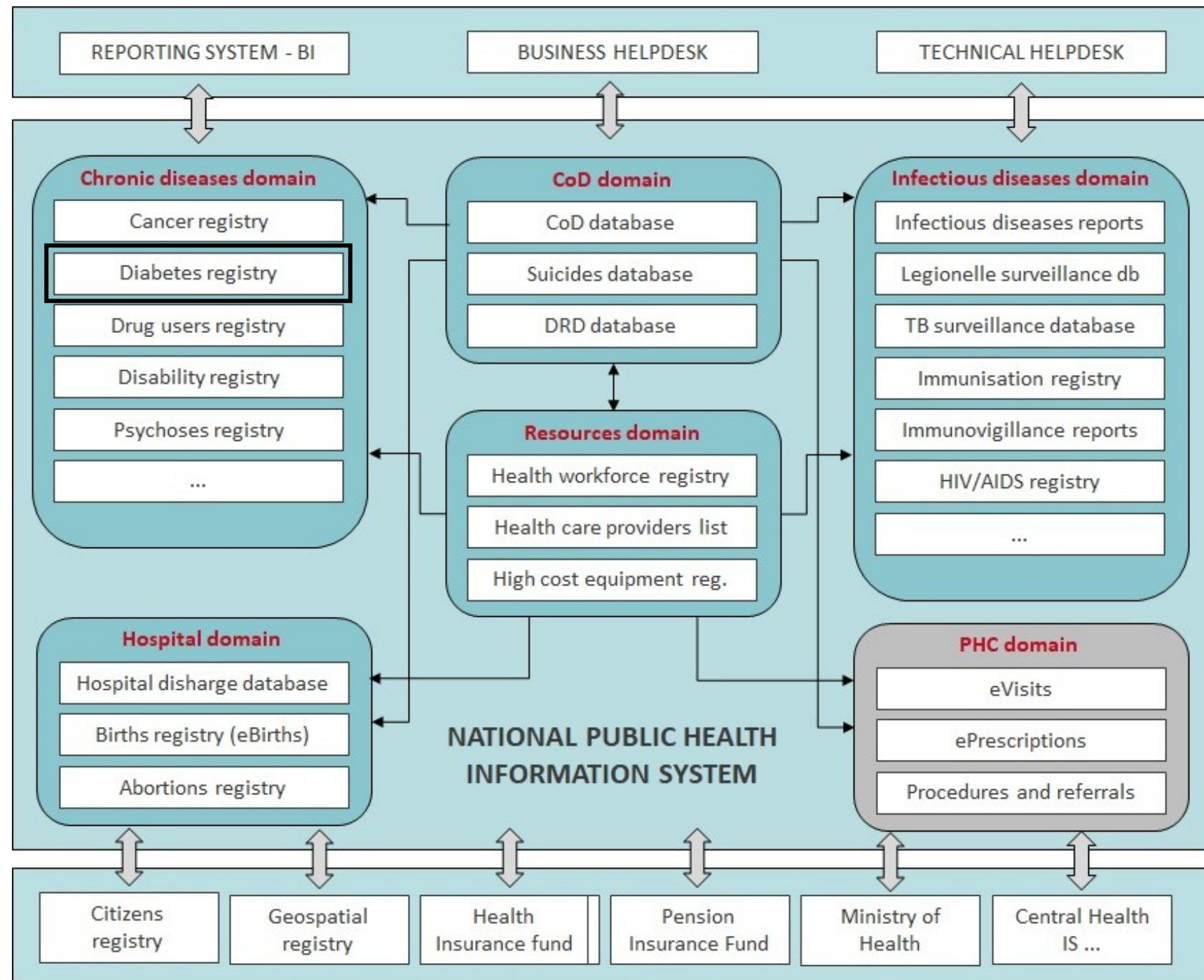


CroDiab

- since 2016 part of National Public Health Information System (NAIS)
- „real” & „real-time” integration

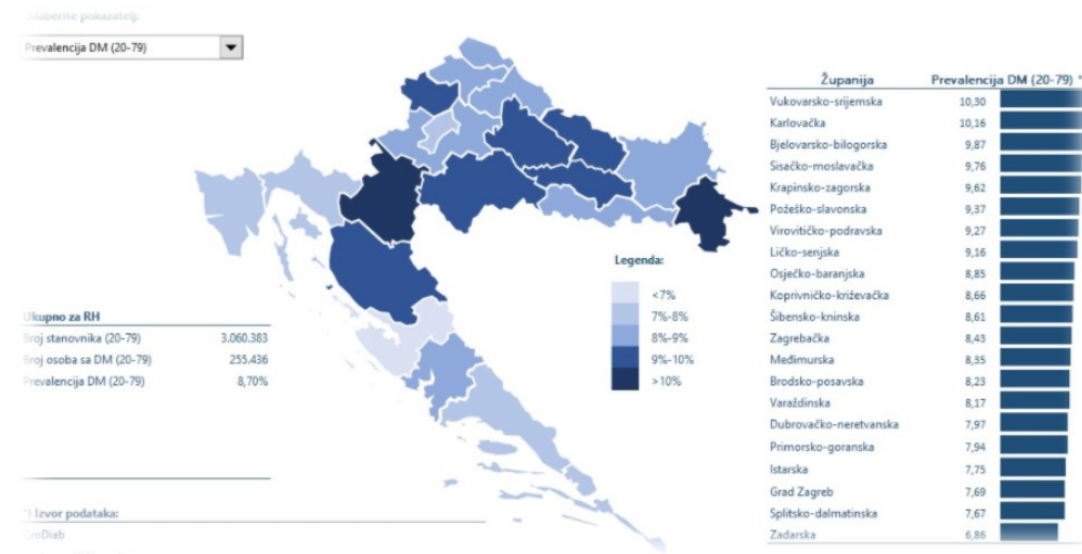
Data sources

- Linking relevant databases
 - 2013 - prescriptions and visits (GP's)
 - 2015 - panels - DM indicators monitoring & checklist for GPs
 - 2017 - register of hospitalizations, rehabilitations, health professionals
 - 2021 - laboratory database
- Active reporting



Results & communication

- Epidemiological analysis (public health indicators, trends, quality of care indicators)
- Web site, Croatian Health Statistics Yearbook
- Health Portal - patients (indicators, advice, in testing phase)
- Individual report for GP's
- Public health – evaluation, planning and interventions
 - Examples of interventions based on the results of registry analyses
 - HbA1c available on the level of primary health care level since 2013
 - Albumin / creatinine ratio available on the level of primary health care level since 202
 - early detection of renal complications

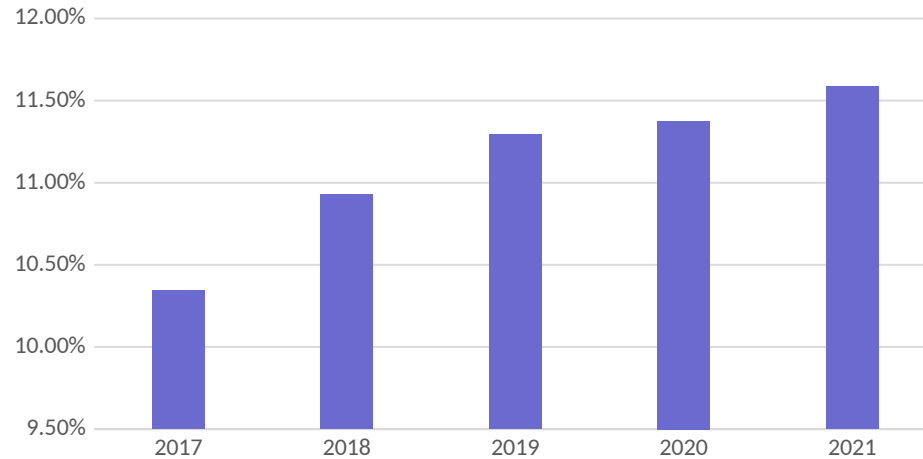


Indicators

- Prevalence, outcomes, process

Poor diabetes control (%)	
2018	30.96
2019	29.84
2020	31.25
2021	30.17
Eye examination (%)	
2018	46.10
2019	43.78
2020	39.14
2021	33.78
Foot exam (%)	
2018	23.04
2019	21.80
2020	18.68
2021	15.88

Prevalence 18+



Diabetes Admission Rate	Crude rate	Age standard rate
2018	202.30	163.85
2019	187.68	151.14
2020	114.80	92.19
2021	101.37	81.00
Avoidable Mortality		
2018	21.23	18.41
2019	27.63	23.47
2020	35.36	28.89
2021	35.19	28.78
Lower-Extremity Amputation		
2018	20.99	16.83
2019	22.99	18.34
2020	19.02	15.01
2021	23.08	18.15

WHO EURO. National diabetes registry improves care of persons with diabetes in Croatia,
[https://
www.who.int/europe/news/item/13-12-2021-national-diabetes-registry-improves-care-of-pe
rsons-with-diabetes-in-croatia](https://www.who.int/europe/news/item/13-12-2021-national-diabetes-registry-improves-care-of-persons-with-diabetes-in-croatia)

EU Project & JA - JA-CHRODIS, JA- CHRODIS +, EUBIROD, JA PARENT

Poljicanin T, Bralic Lang V, Mach Z, Svajda M. Croatian diabetes registry (CroDiab) and implementation of standardised diabetes checklists using Joint Action CHRODIS Recommendations and Criteria. Ann Ist Super Sanita. 2021 Jan-Mar;57(1):74-79. doi: 10.4415/ANN_21_01_12. PMID: 33797409.

Lessons learned and take home message

- continuous improvement (changes)
- it is a long term process
- you need to have a vision and the desired direction, but it is necessary to accept the possibilities
- a unique national identifier solves a lot

Perfect is the enemy of good

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HVALA

• **CroDiab**