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Prevention and Control  
Republic of Latvia

# Latvian Diabetes Register

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# About the Register

- Set up in 1997
- Web-based and a part of Register for Patients with Particular Diseases, maintained by CDPC since 2008
- Population based and government funded (Cabinet of Ministers Regulation No 746)
- Annually updated by endocrinologists and/or general practitioners



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# Collaboration

## National:

- Ministry of Health
- National Health Service
- Central Statistical Bureau of Latvia
- Professional associations

## International:

- OECD HCQI (Health Care Quality Indicators) expert group
- EUBIROD
- EUROSTAT
- WHO



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# Research component

- Bachelor theses
- Master theses
- PhD thesis
- Scientific publications
- Conference presentations



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# Quality monitoring component

- Data input controls in the Register (classifications, validation between fields, mandatory fields, etc.);
- CDPC Register data Quality Check Plan;
- Linked with Population Register and Cause of Death Register;
- Annual comparison with National Health Service's (NHS) databases – Payment System for Remuneration of Medicines (since 2009), database of State Paid In-patient Services (since 2012)
- Methodological instruction for correct data input and annual current events article for health care professionals



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## Information included in a patients registration form (since September 2014)

- **Personal data** – patient's name, surname, identity number, nationality, residence;
- **Data about diagnosis** - diagnosis code in ICD-10, year when diagnosis was confirmed, year when oral drug therapy was started, year when insulin therapy was started;
- **Annual clinical examination and analyses** - weight, height, BMI, waist circumference, blood pressure, HbA1c, high density lipoproteins (HDL), low density lipoproteins (LDL), triglycerides, creatinine, albumin-urea test, glomerular filtration rate;
- **Annual examinations and complications** - eye examinations, foot examination, lower extremity amputations, end stage renal diseases, cardiovascular diseases;
- **Therapy** - diet only, oral drug therapy, insulin.



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# System PREDA (IT solutions)

- Special data entry software – system PREDA (**P**atients **R**egister **D**ata)
- System PREDA consists of:
  - PREDA data base – MS SQL 2005 data base;
  - PREDA – data input system- XML WEB service – access layer – system public interface;
  - PREDA Security – security administration program;
  - PREDA Report – data analysis system



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# System PREDA (IT solutions) II

- Only users that are identified, authenticated and authorized have an access to the system PREDA
- Person identifying data and health data stored separately
- Information and link between them is encrypted





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# Dissemination strategies

- Annual data reports in a CDPC web page;
- Statistical Yearbook of Health care in Latvia;
- Data for other state institutions for policy planning and evaluation, for publications;
- Data requests for students' theses, scientific publications, conference presentations, etc.



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