

ASSET

Al for Sustainable Prevention of Autoimmunity in the Society

Structure and Goals

"Diabetesvård med superkrafter" Stockholm, November 11th, 2022









Al for Sustainable Prevention of Autoimmunity in the Society



Leading Health Care





Subject data ASSET AI
Precision Health
Prediction tool

TEDDY

Diaprey-IT

DIPP

TN-10,

Diaunion

Point

Health Data Resources

Continuous updates

Type 1 Diabetes

- Risk of developing disease
 - Disease progression
 - Response to treatment
 - Long-term monitoring

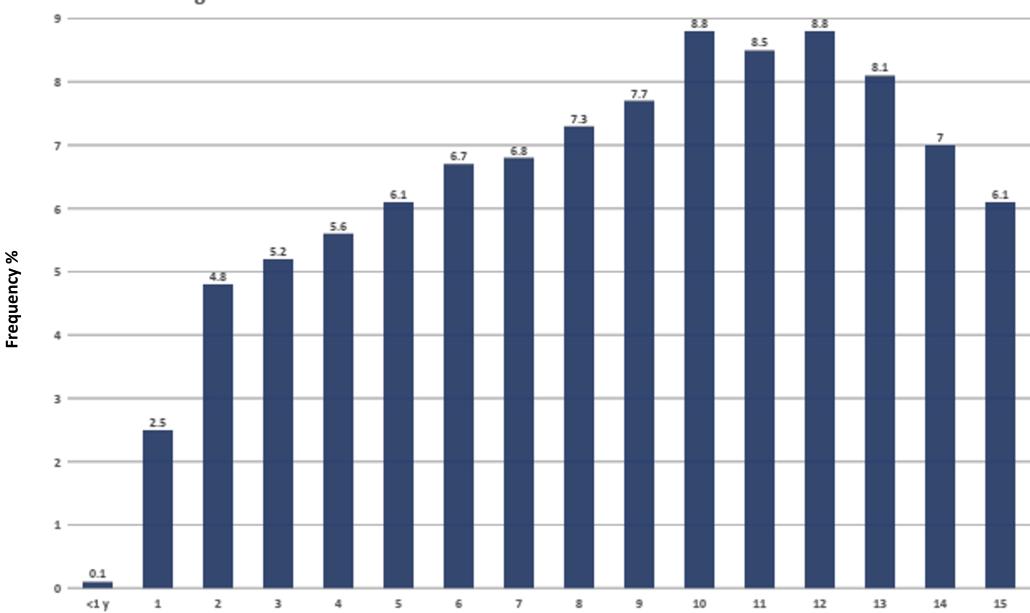
Other autoimmune diseases (celiac disease, hypothyroiditis)

All diseases

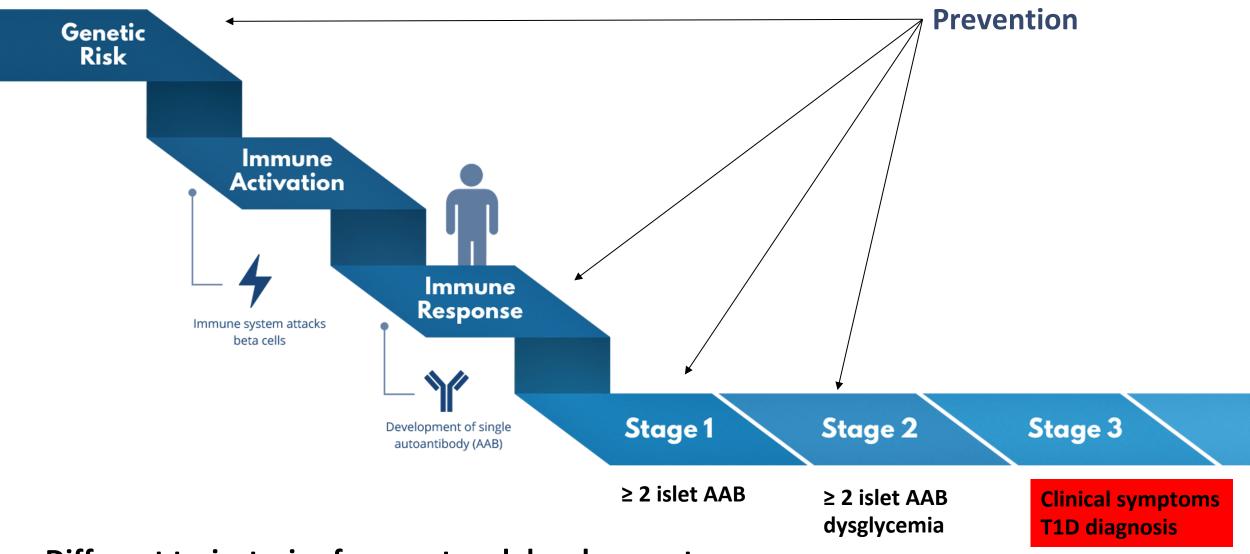
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Age at onset of T1 diabetes in 11 383 Swedish children. Year 2002 - 2017

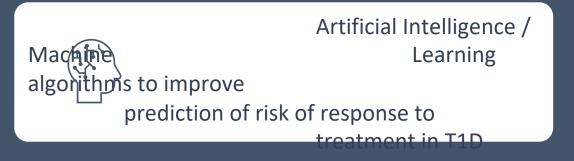


Precision prevention and treatment for T1D



Different trajectories for onset and development

(source: Trialnet)





- Data from observational cohort studies (TEDDY)
- Access data from other cohort studies and prevention/intervention clinical trials through collaborations
- Use AI/ML algorithms to improve prediction of T1D risk and response to treatments
- Use data analysis to improve design of clinical trials









- Evaluating preventative therapeutics (starting with clinical trial of Diamyd)
- Evaluating practical feasibility of screening what to screen for, when and for whom?
- Simulating screening and follow-ups (in silico)
- Evaluating clinical support tool



Impact of ASSET

- "Big picture" approach
- Risk prediction and treatment effect
- Clinical decision support tool
- Screening program
- Healthcare hurdles to precision prevention implementation
- Expansion beyond diabetes?
- Collaborations

A Forum to drive precision medicine in Type 1 Diabetes



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https://www.asset.healthcare/