Where should screening take place and how do we effectively communicate the results?

Chantal Mathieu, MD, PhD





Conflicts of interest

Serves or has served on the advisory panel for Novo Nordisk, Sanofi, Eli Lilly and Company, Novartis, Dexcom, Boehringer Ingelheim, Bayer, Roche, Abbott, Medtronic, Insulet, Biomea Fusion, SAB Bio and Vertex. Financial compensation for these activities has been received by KU Leuven; KU Leuven has received research support for CM from Medtronic, Novo Nordisk and Sanofi; CM serves or has served on the speakers bureau for Novo Nordisk, Sanofi, Eli Lilly and Company, Medtronic, Dexcom, Insulet, Abbott, Vertex and Boehringer Ingelheim. Financial compensation for these activities has been received by KU Leuven. CM is president of EASD. All external support of EASD is to be found on www.easd.org.



Recommendations for context and settings for screening

IAb testing should be embedded in established public health activities that minimize the barriers to participation and leverage existing structures. These can include, but are not limited to, vaccination clinics and well-child clinic appointments. It is expected that different healthcare services will adopt the screening context that is most appropriate to their regional public health capacity and process.[E]

IAb screening should promote equity of access for all individuals, independent of socioeconomic status, ethnicity or regional location.[B]









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Recommendations for context and settings for screening

Whenever and wherever screening is offered, the provider (the person managing the screening visit) should be knowledgeable on key points relevant to the screening process, including the components of prescreening awareness and information, the screening event, the delivery of results and any necessary referral process. It is expected that adequate reimbursement for these activities is available.[E]











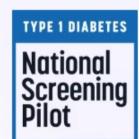
Communications planning before and after the immediate IAb screening activity is the responsibility of national or regional stakeholders. At minimum, communication should clarify both the purpose of IAb screening, what can be expected at the screening appointment and in the immediate period thereafter. [C]







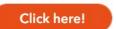












Useful links



GPPAD



INNODIA (non-profit organization)



Hippo & Friends



European pre-T1D Registry



SWEET



Br1dge

T10 STEP AHEAD

T1D STEP AHEAD

Use clear and neutral terminology when communicating a screening test result. Until a screening result that detects the presence of IAb is confirmed, it is important to avoid language that creates avoidable anxiety for the screened individual.[E]

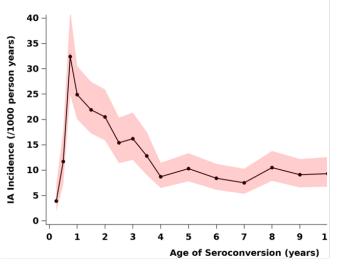
When communicating screening and confirmatory test results to the individual or caregiver, a personal contact should be offered to allow for the explanation of results. [E] All individuals should have the opportunity to express their immediate needs for information and support. [B]







Communication that IAb were not detected must emphasize that the current result does not preclude T1D in the future and rescreening may be recommended, particularly if the person is young or has a personal or family history of autoimmune disease.[C]



Sensitivity

One screening: age 3-4 years (BABYDIAB, TEDDY, TIDI): 40%

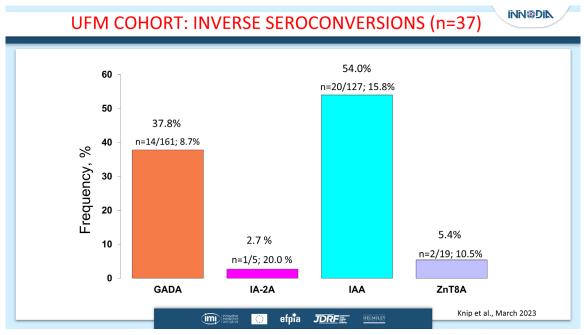
Two screenings: age 2-3 and 6-7 years (TEDDY, T1DI, Fr1da): 65%

Three screenings: age 2-3 and 6-7 and 10 years (TIDI, Frida): 80%

BMJ open 2016 Diabetes Care 2019 Lancet Endocrinol 2022 Lancet Child Adolesc Health. 2023 Diabetologia 2025 DOM 2025



If a single IAb is detected, future rescreening may be recommended based on age and other factors.[B]







All screening participants should be provided with clear information about identifying the symptoms of T1D.[E]

What are the symptoms of type 1 diabetes?

Warning signs of new-onset type 1 diabetes (T1D) often appear suddenly and require immediate attention.



Extreme thirst (polydipsia)



Increased appetite



Frequent urination (polyuria)



Unexplained weight loss



Heavy or labored breathing



Fruity odor on the breath



Drowsiness or tiredness



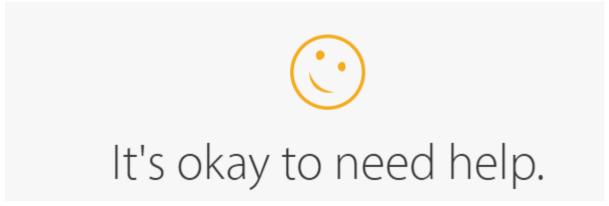
Dry mouth and itchy skin



Sudden vision changes



HCPs should be aware of psychological reactions to the delivery of a diagnosis of early-stage T1D, in order to take actionable steps (e.g. provide information/education, referral and/or monitoring plan). When necessary, professional psychological support should be offered to reduce anxiety [C]



Childrenwithdiabetes.com



Evidentiary gaps

Should we screen adults for early stage T1D?

Single antibodies and their meaning?

What is the optimal setting for screening and follow up?

Can we get good/better assays at low cost?



Rate of progression in an individual: how can we harness precision medicine to come to a personalized approach in monitoring and interventions with disease modifying therapies?





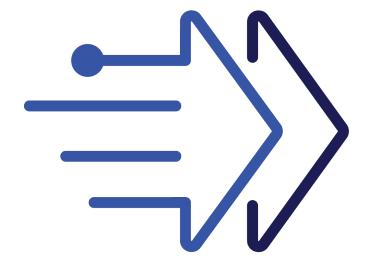
Next steps and timeline



Peer Review with EASD and ADA



Public comment and endorsement from global diabetes societies and organizations



Implementation and research to fill the evidentiary gaps



Many questions left for general population screening for early stages of T1D implementation



How to organize screening in a specific country/region, with a specific health care system



How to organize screening in the setting of specific belief backgrounds (religion, emotion, trust in system...)



How to communicate to the general population about T1D and importance of early detection



How to define benefit of early detection



How to organize monitoring



How to integrate early detection in HC systems





How to measure impact (beneficial and harmful) of early detection



How do people (with T1D) see this early detection

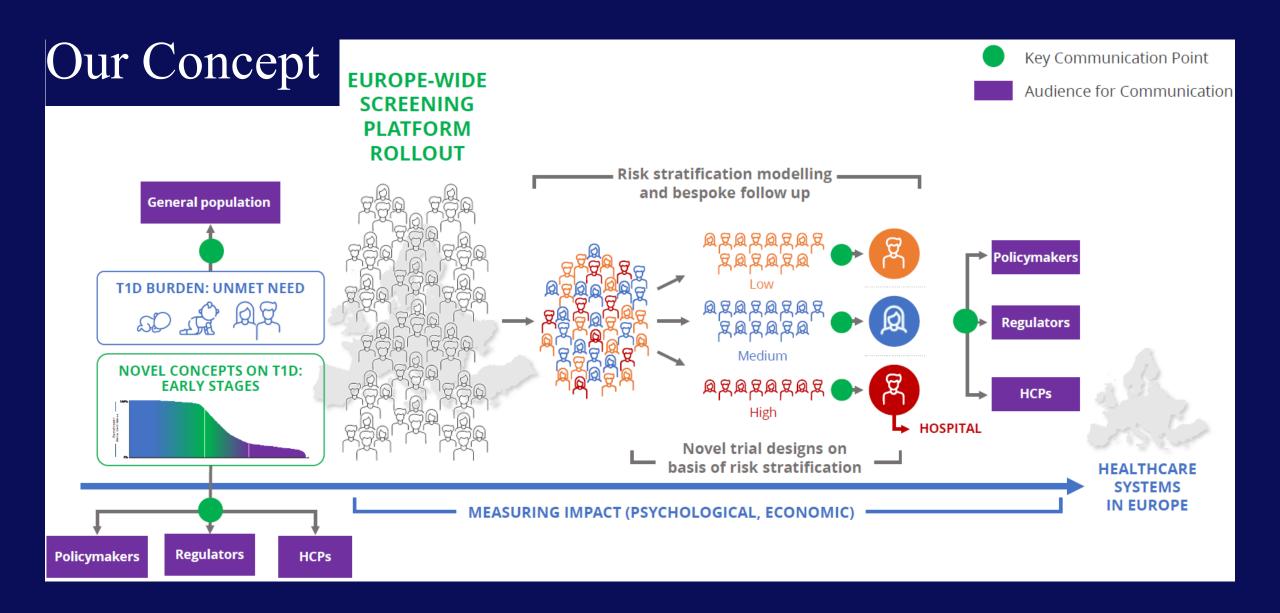




Univ. De Açores







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WP1

Setting up screening programmes for early-stage T1D throughout Europe

WP3

Accurate staging and monitoring for progression to clinical diabets

WP6

To effectively manage
the EDENT1FI
consortium by
providing project
management and
governance direction
to the project

WP2

Impact of screening of general population for presyntomatic T1D

WP5

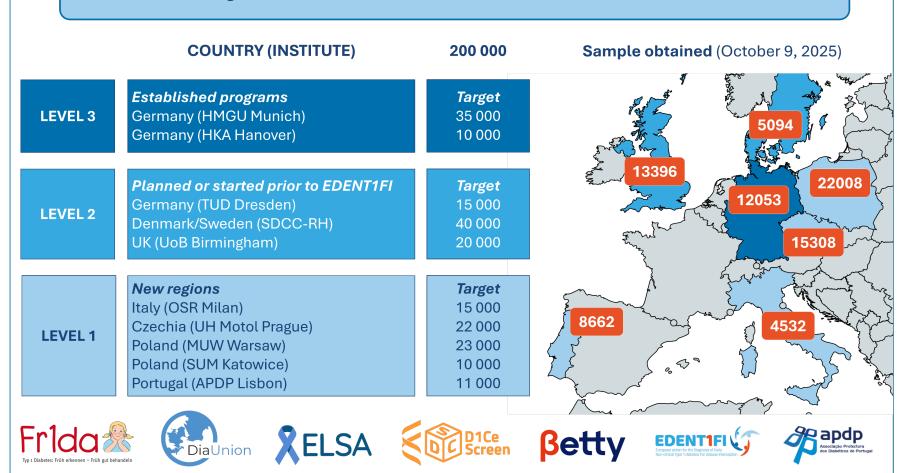
Implementation in Europe -Communication and Dissemination

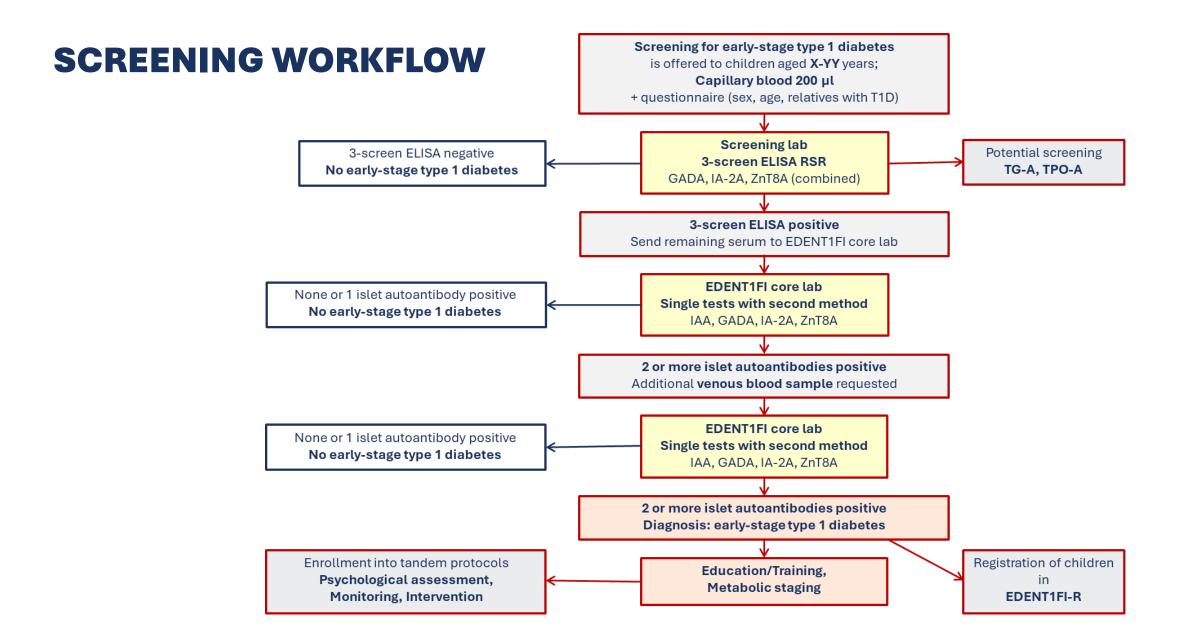
WP4

Roadmap for translation to clinic: Developing a SMART platform study with adaptive trial design to accelerate progress - ADAPT1D

OUR SCREENING PROGRAMS

Screening results within EDENT1FI so far: 81 053 children screened!



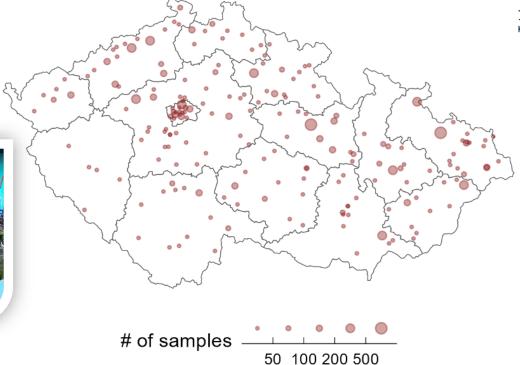


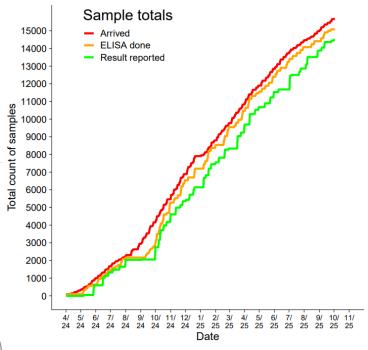
EXAMPLE: CZECHIA

Screening in more than 260 sites;

Including primary care, pediatric diabetologists, departments of

pediatrics.





15.308 CHILDREN SCREENED!

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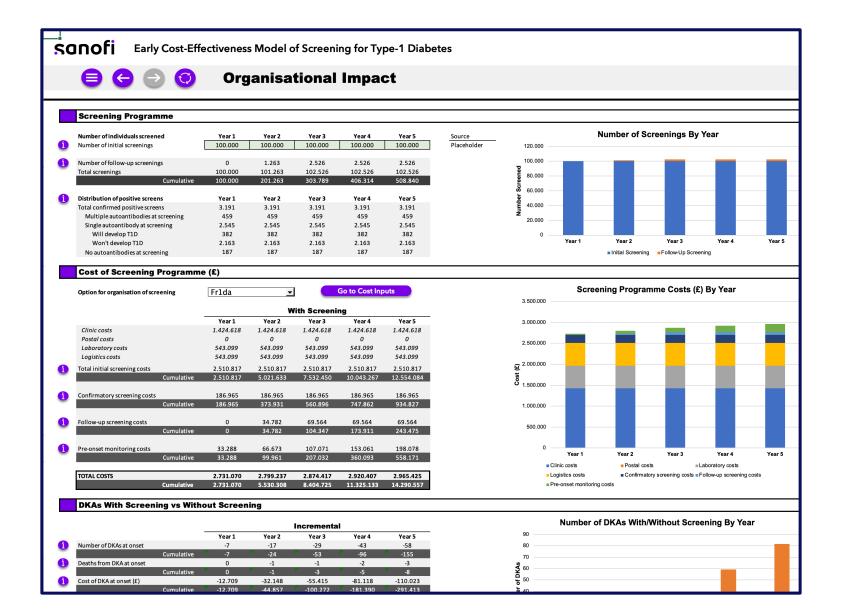
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EDENT1FI MONITORING PROTOCOL

EDENT1FI WP3 follow-up	Tier 1 Low (2 yr rate: <5%)	Normoglycemia* Age over 2 y Progression score <0.5	Baseline Yearly	Times of illness/ symptoms	Baseline Yearly	Baseline 2 yearly	yearly	Yearly: PBMCs, PAX tube, Flow tube
								Yearly in Tier 1, 6- monthly in Tier 2 & 3: Serum for small
	Tier 3 High (2 yr rate 50%)	Dysglycemia (Stage 2)* Or Progression score >4.0	Baseline	Monthly, Times of illness/ symptoms	Baseline 3-monthly	Baseline 2 yearly	3 monthly	At baseline, Year 1 and initiating insulin: EQ5D, HADS, SAI

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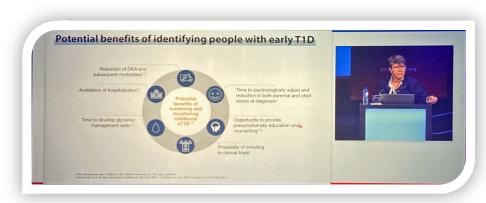
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EDUCATING HCPs

EASD 2024









THE BR1DGE SUMMIT 2025



ISPAD 2024

ATTD 2025





EASD 2025

PRESENCE IN THE MEDIA

🛖 Home 🔰 Badania 🤰 Katowice na froncie walki z cukrzycą typu 1. Rusza europejski program badań dzieci

Katowice na froncie walki z cukrzycą typu 1. Rusza europejski program badań dzieci

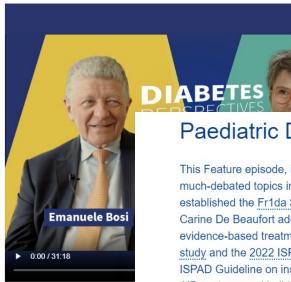
Cukrzyca typu 1 atakuje dzieci często bez ostrzeżenia, a rozpoznanie zbyt późno może kosztować życie. Dlatego w Katowicach rusza bezprecedensowy projekt – EDENT1FI – którego celem jest wczesne wykrycie choroby zanim ujawni się choćby jeden objaw. To nie tylko nadzieja dla tysięcy rodzin, ale także szansa na całkowitą zmianę podejścia do diagnostyki i prewencji tej wyniszczającej choroby.

> APDP | crianças | deteção precoce | diabetes tipo 1 | EDENT1FI | JOVENS | Prevenção | rastreios | saúde pública

APDP realiza mais de 5 mil rastreios à diabetes tipo 1 em apenas 6 meses

3 de Abril 2025

A campanha "O Dedo Que Adivinha", liderada pela APDP no âmbito do projeto europeu EDENT1FI, ultrapassou cinco mil rastreios de diabetes tipo 1 em crianças e jovens em Portugal. Em apenas seis meses, a iniciativa alcançou metade da meta nacional prevista para os próximos quatro anos.



to screen a child Fearly Non-clinic academics, indu pre-clinical phase coming years.

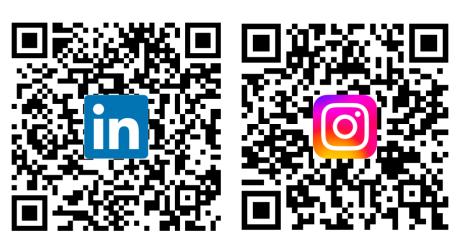
Paediatric Diabetes

This Feature episode, introduced by EASD President Chantal Mathieu, focusses on some much-debated topics in paediatric diabetes care. Anette-Gabrielle Ziegler, who established the Fr1da Study, explains why screening for T1D in children. ISPAD President Carine De Beaufort addresses the special needs of small children living diabetes and the evidence-based treatment options which reduce disease burden, referencing the KidsAP study and the 2022 ISPAD Clinical Practice Consensus Guidelines. First author of the ISPAD Guideline on insulin treatment, Eda Cengiz, expands on the possible future use of AID systems and builds a bridge to learning technology for patient and staff education.



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European Diabetes Forum (EUDF)International Europe)Parliamentarians for Diabetes Global N Diabetes Federation (FEDE)

Print Share

This article is part of our special report **Diabete**:

Last week key stakeholders from across the dia the 60th Annual Meeting of the European Assoc On this occasion, the European Diabetes Forum (LODE), the International Diabetes Forum (LODE) (LOD

Federation (IDF) Europe, the Spanish Diabetes Federation (FEDE), the Parliamentarians

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Health Promoted content

Type 1 Diabetes can be fast, but we can be faster! A call to boost early detection

Early Detection Policy Forum

For the advancement of policies for early detection of type 1 diabetes (T1D), we brought together key stakeholders from the T1D community in Madrid to take part in the Early Detection Policy Forum.

Following the success of the Early Detection Policy Forum, we are delighted to share this joint call to action to boost EU policies to ensure early detection for T1D published by Euractiv.



November 4th 12:00-14:00 European Parliament, Brussels

EARLY DETECTION, BETTER OUTCOMES

Addressing unmet needs in type 1

diabetes



Call to Action



We are EDENT1FI