Guidelines for Monitoring and Education in Pre-Symptomatic T1D





Disclosures

- Institutional support for research trials from:
 - Dompe, Lilly, Provention/Sanofi, Zealand
- Data Safety Monitoring Board
 - Lilly, Merck (non-diabetes indications)
- Consultant
 - Vertex, Abata
- Patent Application Co-author:
 - DFMO in new onset diabetes (through IU)



Guidance

Guidelines for Monitoring and Education in (persons with) Pre-Symptomatic T1D

A glance into the draft - It is still a draft!!





Objectives

- Discuss how the guidance was developed
- Present next step plans for document

Consensus Guidance for Monitoring People with Antibody-Positive Pre-Stage 3 Type 1 Diabetes

Process began September 2022

Phone call/followed by email from Dr. Albanese-O'Neill



Here is a brief summary of the initiative:

Working Group: Consensus Guidelines for Clinical Monitoring in Pre-symptomatic Type 1 Diabetes

Purpose: Develop and publish type 1 diabetes monitoring consensus guidelines for individuals who have participated in type 1 diabetes risk screening

Timeline: Draft Consensus Document: ATTD, February 2023, Berlin Germany

Working Group Meetings: Biweekly from February 2023 through May 2023 Finalize Consensus Document: ADA Sci Sessions, June 2023, San Diego, CA, USA

Chair: Moshe Phillip, MD

Associate Chair: Linda DiMeglio, MD, MPH

Thank you again for considering it and looking forward to hearing from you.

Anastasia

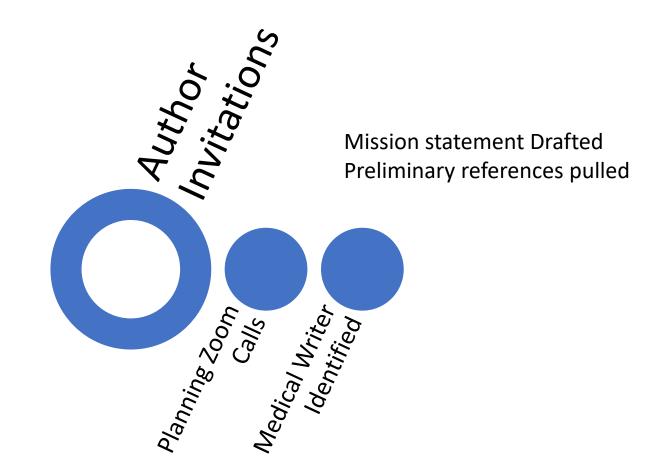
ISPAD Clinical Practice Consensus Guidelines 2022: Stages of type 1 diabetes in children and adolescents

```
Rachel E. J. Besser<sup>1</sup> | Kirstine J. Bell<sup>2</sup> | Jenny J. Couper<sup>3,4</sup> | Anette-G. Ziegler<sup>5</sup> | Diane K. Wherrett<sup>6</sup> | Mikael Knip<sup>7</sup> | Cate Speake<sup>8</sup> | Kristina Casteels<sup>9,10</sup> | Kimberly A. Driscoll<sup>11</sup> | Laura Jacobsen<sup>12</sup> | Maria E. Craig<sup>13</sup> | Michael J. Haller<sup>12</sup>
```

 Both general population and targeted screening should be coupled with education and monitoring programs for those identified with autoantibodies (B).



November 2022



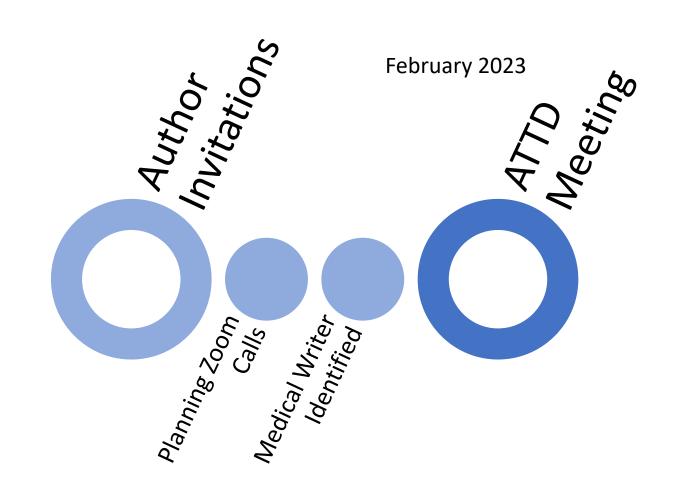
Mission Statement (Nov 2022)

- Even though T1D risk screening has taken place for over four decades, there are no published clinical monitoring guidelines available to clinicians to use in primary and specialty care.
- The recently-published ISPAD guidelines are the first consensus document to encourage ongoing monitoring to track disease progression.
- However, ISPAD guidance only addresses T1D progression in children and adolescents (not adults) and does not outline specific clinical practice steps.
- Without clear guidance for recommended next steps from healthcare professionals, individuals at risk for T1D will remain at increased risk for DKA at diagnosis and its related sequelae; continue to be unprepared at diagnosis; not be identified for participation in T1D prevention research, and miss opportunities to delay disease progression through therapeutic intervention.
- The urgency of the need for comprehensive monitoring guidance has risen with approval of the first disease modifying therapy, teplizumab.

Working group mission - develop

- Consensus document based on expert opinion and current evidence that specifies
 the necessary monitoring guidance/a basic management approach for persons with
 Antibody-Positive Pre-Stage 3 T1D progression for use in clinical practice to include
 - What endpoints to monitor
 - How to monitor
 - How frequently to monitor
 - How to provide psychosocial and educational support
 - Age/other biomarker and context-based contingencies and adaptations
 - What additional evidence is needed in this space (e.g. biomarkers, risk factors/assessment, efficacy of approaches)
- Patient-facing educational materials for use by individuals and clinical practices that include
 - Symptoms of T1D
 - T1D staging description
 - Description of monitoring plan
 - Customizable links to local resources





21st February 2023, ATTD-Berlin Germany



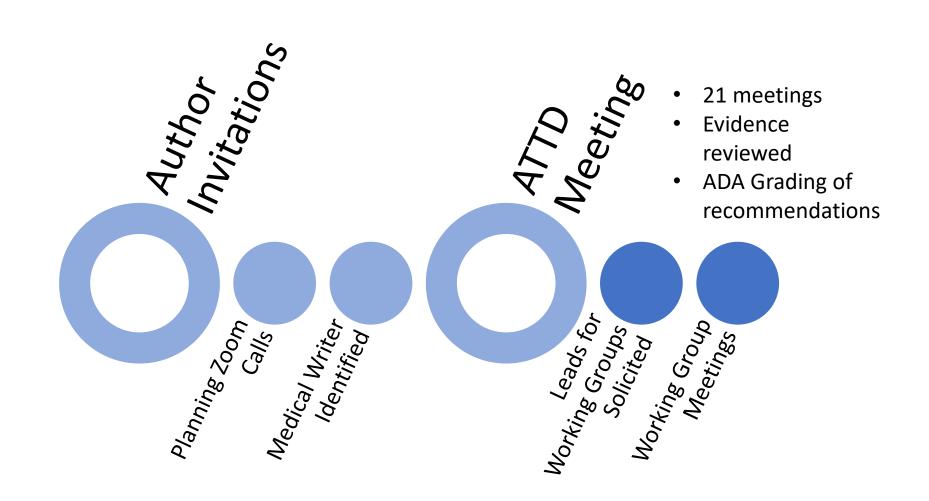
11:00 to 11:20	Welcome and Introductions – Dr. Sanjoy Dutta Summary of Working Group Mission – Dr. Moshe Phillip, Dr. Linda DiMeglio				
11:20 to 12:30	What Have We Done in Monitoring?				
	 State of the Science in Monitoring – Dr. Marian Rewers ISPAD Monitoring Guidelines – Dr. Rachel Besser Insights from the INNODIA Monitoring Protocol – Dr. Chantal Mathieu Insights from the TrialNet Monitoring Protocol – Dr. Emily Sims Insights from the Fr1da Monitoring Protocol – Dr. Anette-Gabrielle Ziegler Insights from the ASK/ASK the Experts Monitoring Protocol – Dr. Kimber Simmons 				
12:30 to 1:40	What Should We Do Next?				
	Moderated Discussion Led by Dr. Moshe Phillip and Dr. Linda DiMeglio				
1:40 to 1:55	Working Groups and Next Steps				
1:55 to 2:00	Closing Remarks				
2:00	Lunch and Networking at Café Madrid (https://melia-berlin.firstview.us/en/cafe-madrid)				

21st February 2023, ATTD-Berlin Germany





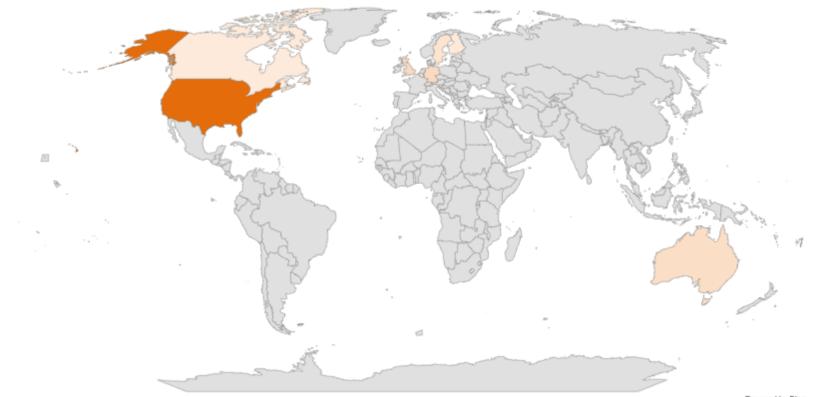
- Monitoring in children and adolescents (Besser/Griffin)
 - •Subgroup leads: Veijola, Craig, Simmons, Couper
- Monitoring in adults (Schulman-Rosenbaum, Wentworth)
- Educational needs(Bell/Frohnert)
- Psychosocial interventions(Driscoll/Smith)



Contributors

	Moshe	Phillip	Schneider Children's Medical Center of Israel	Anne	Koralova	Helmsley Charitable Trust
	Peter	Achenbach	Helmholtz Munich, Institute of Diabetes	Olga	Kordonouri	Children's Hospital AUF DER BULT
	Ananta	Addala	Research Stanford University	Jeffrey	Krischer	University of South Florida
		Albanese-O'Neill	JDRF International	Karin	Lange	Hannover Medical School Medical Psychology
	Anastasia Tadei	Battelino	University Medical Center Ljubljana	Robert	Lash	Endocrine Society
	Kirstine	Bell	University of Sydney	Åke	Lernmark	Skåne University Hospital
	Rachel		University of Oxford	Ingrid	Libman	UPMC Children's Hospital of Pittsburgh
	Ezio	Besser Bonifacio	Technische Universität Dresden	Markus	Lundgren	Lund University
	William	Cefalu	NIH NIDDK	David	Maahs	Stanford University/ISPAD
	Helen			Loredana	Marcovecchio	Department of Paediatrics, f Cambridge
	Jennifer	Colhoun	University of Edinburgh	Chantal	Mathieu	KULeuven
	Jenniter	Couper	University of Adelaide	Kellee	Miller	T1D Exchange
	Maria	Craig	Children's Hospital Westmead, University of NSW	Holly	O'Donnell	Barbara Davis Center
	Thomas	Danne	Diabetes Center AUF DER BULT, Hannover	Tal	Oron	Schneider Children's Medical Center of Israel
	Carine	de Beaufort	Deccp / CHL university of luxembourg	Shivajirao	Patil	Family Practice Physician, East Carolina
	Klemen	Dovc	UMC Ljubljana University Children's Hospital	Rodica	Pop-Busui	University of Michigan
		Driscoll	University of Florida	Marian	Rewers	Barbara Davis Center for Diabetes, Colorado
)	Kimberly A. Sanjoy	Dutta	JDRF International		Rich	
	Osagie	Ebekozien	T1D Exchange	Stephen S.		University of Virginia
			ū	Desmond	Schatz	University of Florida
	Helena Elding	- U	Lund University	Rifka	Schulman	Northwell Health/ AACE
	Dan	Feiten	Pediatrician	Kimber	Simmons	University of Colorado Barbara Davis Center
	Brigitte	Frohnert	Barbara Davis Center, University of Colorado	Emily	Sims	Indiana University
	Robert	Gabbay	American Diabetes Association			University of Miami/Diabetes Research
	Mary Pat	Gallagher	NYU Langone	Jay S	Skyler	Institute
	Carla	Greenbaum	Benaroya Research Institute	Laura	Smith	Cincinnati Children's Hospital
	Kurt	Griffin	Sanford health	Cate	Speake	Benaroya Research Institute
	William	Hagopian	Pacific Northwest Reland Univ of Washington	Andrea	Steck	Barbara Davis Center for Diabetes, Colorado
	Michael	Haller	University of Florida	Nick	Thomas	Royal College of General Practitioners
	Chairte I	the edded	Australian Center for Behavioral Res. in	Ksenia	Tonyushkina	UH Rainbow Babies and Children's Hospital
	Christel Emile	Hendrieckx	Diabetes	Riitta	Veijola	University of Oulu, Finland
		Hendriks	University of Cambridge	John	Wentworth	Royal Melbourne Hospital
	Richard	Holt	University of Southampton			Hospital for Sick Children/University of
	Lucille	Hughes	ADCES	Diane	Wherrett	Toronto
	Heba	Ismail	Indiana University	Jamie	Wood	UH Rainbow Babies and Children's Hospital
	Laura	Jacobsen	University of Florida	Anette	Ziegler	Helmholtz Munich
	Suzanne	Johnson	Florida State University	Linda	DiMeglio	Indiana University
	Leslie	Kolb	ADCES			

Worldwide Authors



Powered by Bing
© Australian Bureau of Statistics, GeoNames, Microsoft, Navinfo, Open Places, OpenStreetMap, TomTom, Zenrin





A new clinical state to address



WHAT IS THE PURPOSE OF MONITORING?



HOW AND WHEN SHOULD WE MONITOR THESE PERSONS?



WHAT DO WE DO
WITH SINGLE
ANTIBODY
POSITIVITY?



EDUCATION



WHO SHOULD MONITOR?



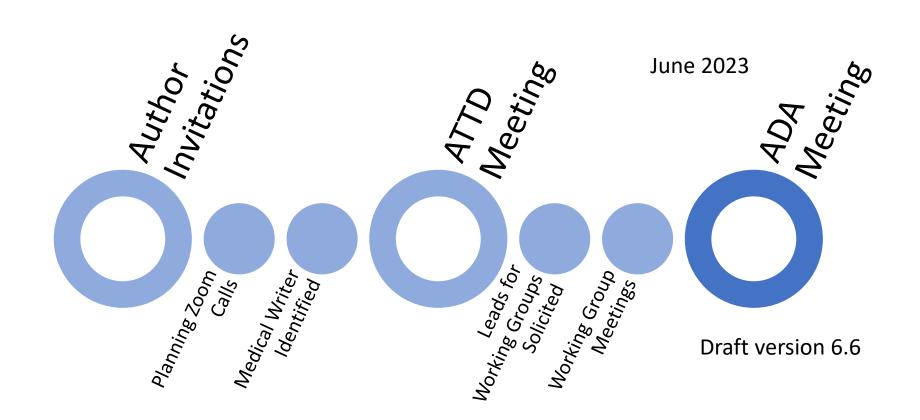
WHAT DEFINES STAGE 2 T1D?



WHEN SHOULD WE BEGIN TREATMENT?



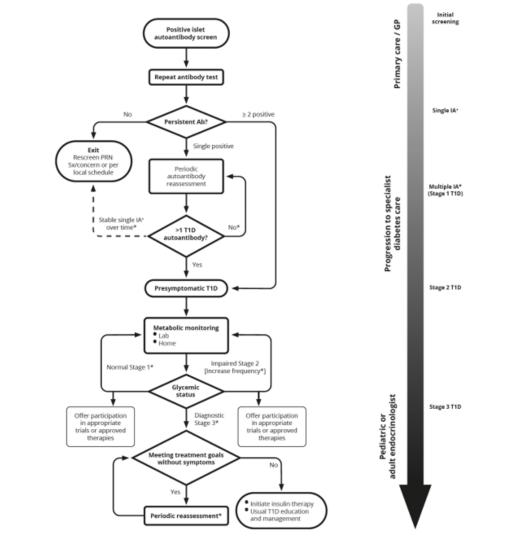
PSYCHOLOGICAL SUPPORT

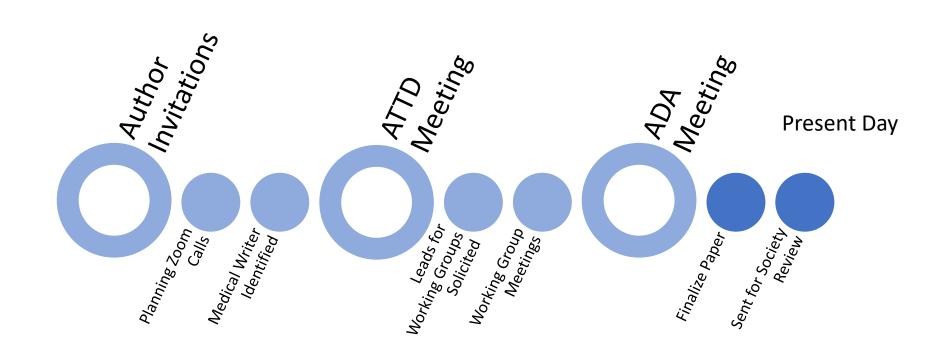


22nd June 2023, ADA-San Diego USA



















European Association for the Study of Diabetes











Sept 2023: Italian Population T1D Screening Initiative

Mulè (FI): "The law on pediatric screening for diabetes and celiac disease is an example of good policy"

"Italy, thanks to all the parliamentarians who have decided to support my bill, is today the first country in the world to have equipped itself with such an innovative tool to protect the health, and in many cases the lives, of our children "

Rome, 13 September 2023 @ Agenzia Nova - Reproduction reserved





Symposium Grote Zaal / Session Hall 1 Saturday, October 21, 12:15 - 13:45 Joint Symposium ISPAD - ATTD Chair: Sze May Ng (United Kingdom) What do we do with persons with Antibody-Positive Pre-Stage 3 Type 1 Diabetes? Chair: Ananta Addala (United States)

Preliminary – endorsed by working group and undergoing society review prior to submitting for peer review/publication

Speaker: Moshe Phillip (Israel)

Real-world data on decision support system Speaker: Mark Clements (United States)

Treatment of obesity in children Speaker: Erica van den Akker (Netherlands)

Q&A





Pediatric diabetes in a rapidly changing world





12:15 - 12:40

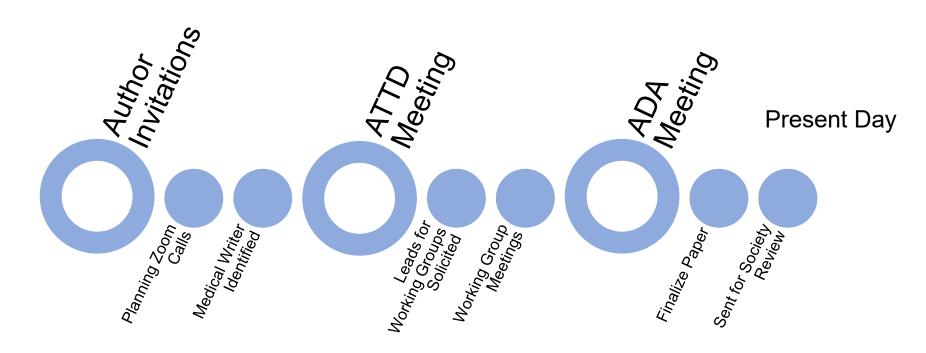
12:40 - 13:05

25 min

25 min 13:05 - 13:30 25 min

13:30 - 13:45

15 min



Draft version 8.0











Next steps

- 1. Finalize feedback
- 2. Re-circulate to all authors
- 3. Submit to journal (!)
- 4. ATTD Presentation 2024









Thank you to:

- Collaborators
 - For this initiative:
 - Moshe, Anastasia, Sanjoy, Rob
 - IU Center for Diabetes and Metabolic Disease
 - Carmella Evans-Molina, Emily Sims, Heba Ismail, Jamie Felton, Alex Tuttle
 - External
 - David Maahs
 - Kellee Miller
 - IFHC
 - Type 1 Diabetes TrialNet
- Funding: NIDDK
- My research staff and our study participants















