Online-Only Supplemental Material - Table of Contents

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Supplemental Table S1. Stage 1 questionnaire

Section number	Section content
1	Screening and recruitment information
2	Demographics, healthcare provider information
3	Diabetes status, diabetes history, current height/weight
4	Birth history, medical history
5	Family history

Supplemental Table S2. Stage 3 Procedures

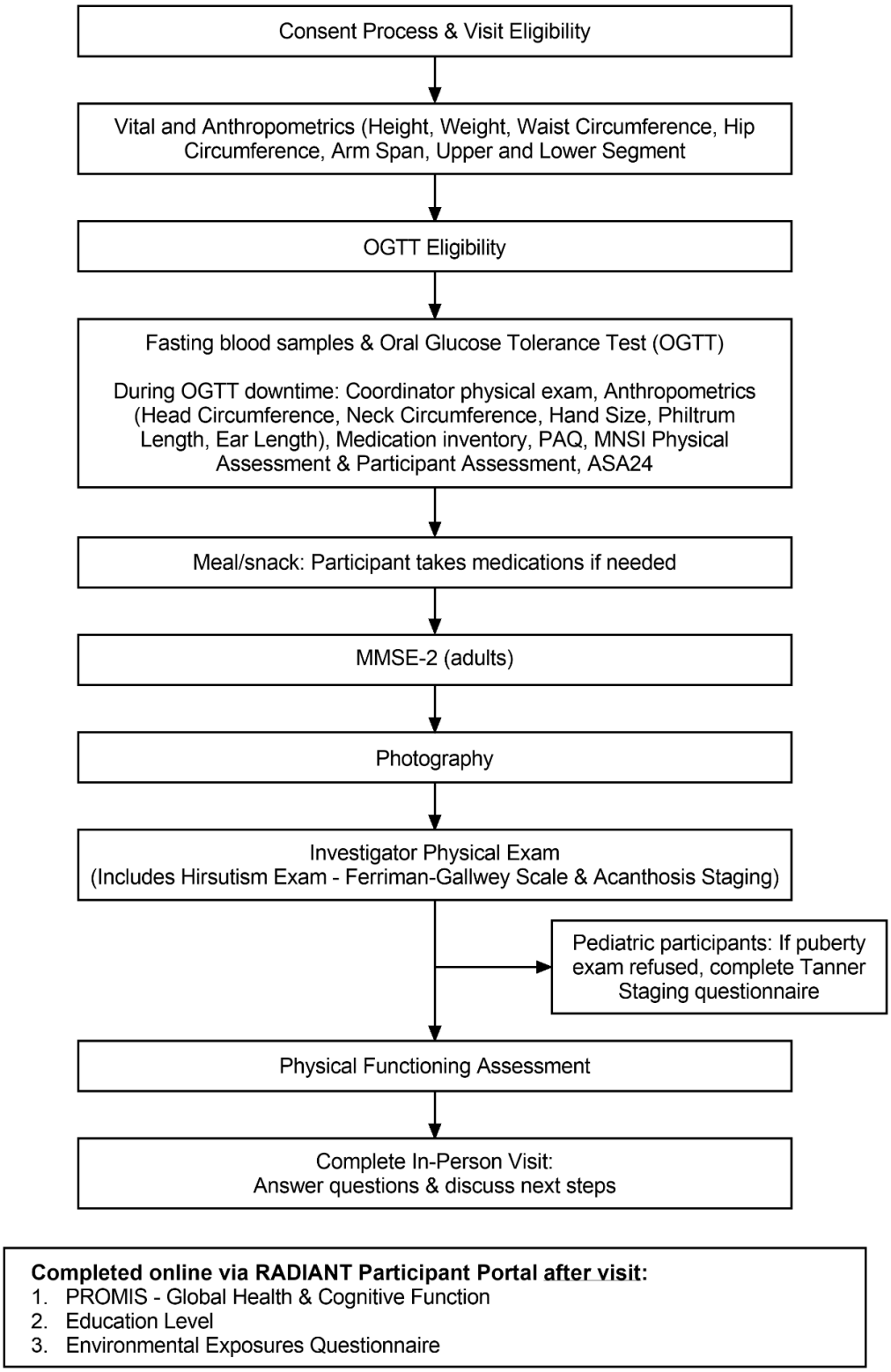
Procedure	
Urine pregnancy test[a]	**Baseline**
Physical exam with biometric measurements and photography	
Laboratory testing (HbA1c, Lipids, CMP, metabolomics)	**Tier 1**
OGTT (glucose and C-peptide will be measured, at all timepoints. Insulin will be collected but only measured in selected participants.)	
PBMC Collection	
Blood collection for biobank storage and future testing	
Questionnaires	
Medical record collection	
Medication Inventory	
Standardized Meal with Continuous Glucose Monitoring (CGM)	**Tier 2**
Mixed Meal Tolerance Test (MMTT) - Short	
Continuous Glucose Monitor (CGM)	
Additional PROMIS questionnaires	
Vineland Assessment	
Specialized vision testing	
Specialized auditory testing	
Wolfram Scale	
Wearable fitness device tracking	

FSIVGTT	**Tier 3**
Hyperglycemic Clamp with Arginine Stimulation	
2-step Hyperinsulinemic-Euglycemic Clamp	
MMTT – Long format	
Fat Biopsy	
Muscle Biopsy	
Liver Biopsy	
Skin Biopsy	

*For the purposes of this study, a child is considered 'affected' when they have a diagnosis of diabetes or prediabetes. An unaffected child is a child who does not have a diagnosis of diabetes/prediabetes. **Risk Types are listed for individual procedures. In pediatric participants, due to the burden of completing multiple procedures at any single visit, all stage 3 procedures in children will be classified as minor increase over minimal risk.

[a] If applicable

Figure S1. Stage 3 Visit Flowchart



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