

**RADIANT.00.Data Collection Summary
Rare and Atypical DIAbetes NeTwork
Summary of Completed Study Forms
Data Current as of September 22, 2023**

Form Name	# Completed Forms*
RADIANT Screening Questionnaire: Diabetes Diagnosis & Other Conditions, Referral to RADIANT	1,421
RADIANT Stage 1 Questionnaire: Demographics, Current Diabetes Status and Treatment, Patient and Family History	1,086
Treating Physician Questionnaire	229
Detailed Family History	305
Stage 3 Visit Eligibility Checklist	214
Vitals	213
Anthropometrics	206
Photography	205
Coordinator Physical Exam	205
Investigator Physical Exam	200
Acanthosis	201
Hirsutism	108
Tanner Staging	6
Michigan Neuropathy Screening Instrument (MNSI) Self Assessment	204
Michigan Neuropathy Screening Instrument (MNSI) Physical Assessment	204
Physical Functioning	204
Mini-Mental State Examination (MMSE2)	193
PROMIS Global General Health Item	193
PROMIS Global Mental Health Item	193
PROMIS Physical Health Item	193
PROMIS Global Social Activities Roles Item	193
PROMIS Cognitive Function Parent/Proxy Questionnaire	11
PROMIS Cognitive Function Pediatric Questionnaire	10
PROMIS Cognitive Function 8a	192
PROMIS Global Health Parent/Proxy Questionnaire - Fatigue	11

***Forms with 'complete' status, i.e. required responses have been entered.**

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Form Name	# Completed Forms*
PROMIS Global Health Parent/Proxy Questionnaire - Pain	11
PROMIS Global Health Parent/Proxy Questionnaire	11
PROMIS Global Health Pediatric Questionnaire - Fatigue	10
PROMIS Global Health Pediatric Questionnaire - Pain	10
PROMIS Global Health Pediatric Questionnaire	10
Education Questionnaire	204
Environmental Exposure Questionnaire	202
Medication Inventory	203
Oral Glucose Tolerance Test (OGTT)	207
Physical Activity Questionnaire (PAQ)	206
Stage 3 Standard Visit Specimen Collection	211
ASA24 Food Recall Questionnaire	174
	7,859

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**RADIANT.00.Data Collection Summary
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Summary of Samples Provided by RADIANT Participants
Data Current as of September 22, 2023**

Participants Providing Samples for:	Sample Type Test	# of Participants Providing Samples	# of Samples Received
Stage 1 Autoantibody Testing	Serum for BAA	819	5,562
Stage 2 Genetic Testing	DNA Extraction (WGS)	337	2,282
	RNA Extraction (RNA-Seq)	336	980
Stage 2 Unaffected Family Member Testing	Fasting Glucose	16	16
Stage 2 Family Member Genetic Testing	DNA Extraction (Sanger)	28	128
Stage 3 Standard Visit Testing	Serum for Storage, CMP, Lipid Profile	208	2,397
	Plasma for Storage, Metabolomics	210	3,902
	Plasma for OGTT glucose at -10, 0, 15, 30, 60, 90, 120 minutes	209	1,401
	Plasma for OGTT c-peptide and insulin at -10, 0, 15, 30, 60, 90, 120 minutes	209	6,115
	Urine (fasting)	209	2,015
	HbA1c	226	227
	PBMC	1	4
			25,029

RADIANT.00.Data Collection Summary
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Summary of Stage 3 Samples by RADIANT Participant Clinical Category
Data Current as of September 22, 2023

Clinical Category*	Cases	Serum Samples for Storage, CMP, Lipid Profile	Plasma Samples for Storage, Metabolomics	Plasma Samples for OGTT Glucose**	Plasma Samples for OGTT C-peptide & Insulin**	Urine Samples	HbA1c Samples	PBMC Samples	Total Samples
All Cases Reviewed by the Discovery Team	144	1,669	2,780	968	4,261	1,428	144	4	11,254
Non-obese insulin insufficient DM	63	733	1,210	435	1,891	618	63	0	4,950
Possible monogenic or oligogenic	52	577	993	353	1,481	508	53	0	3,965
Antibody negative, insulin deficient diabetes	41	468	785	270	1,160	410	42	0	3,135
Syndromic	24	276	464	150	676	240	25	0	1,831
Lipodystrophic	19	202	357	132	572	190	20	0	1,473
Other	16	187	320	107	475	160	15	4	1,268
Very low insulin requirements	12	144	239	78	354	120	12	0	947
Non-progressive	10	111	189	61	285	100	10	0	756
Severe insulin resistance	10	108	190	69	312	100	10	0	789
Mitochondrial	9	114	180	52	248	90	9	0	693
Molecular Mechanisms of Beta Cell Dysfunction	8	88	151	44	195	80	8	4	570
Lean GDM	3	19	61	21	63	21	3	0	188
Lean PCOS	3	32	64	21	91	30	3	0	241
Diabetes associated with congenital or inherited pancreatic disease	2	29	42	14	70	20	2	0	177
INSR variant	2	26	42	14	70	20	2	0	174
INS variant	2	21	40	14	66	20	2	0	163
IRS2 Haploinsufficiency variant	2	22	36	14	70	20	2	0	164
SLIT2-ROBO1 variant	2	14	31	14	45	20	2	0	126
IDH2 variant	1	10	18	6	20	10	1	0	65
IGF1R variant	1	13	18	7	28	10	1	0	77
LMNTD2 variant	1	12	20	7	33	10	1	0	83

*Clinical categories are assigned by the RADIANT Discovery Team after the Stage 3 visit. A participant can be assigned to more than one Clinical Category by the Discovery Team.

**Total for all time points. Samples are obtained to measure glucose/c-peptide/insulin at -10, 0, 15, 30, 60, 90, 120 minutes.

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Clinical Category*	Cases	Serum Samples for Storage, CMP, Lipid Profile	Plasma Samples for Storage, Metabolomics	Plasma Samples for OGTT Glucose**	Plasma Samples for OGTT C-peptide & Insulin**	Urine Samples	HbA1c Samples	PBMC Samples	Total Samples
NFKB1 variant	1	15	22	7	35	10	1	0	90
PAX6 variant	1	15	22	7	35	10	1	0	90
PTPMT1 variant	1	11	18	7	31	10	1	0	78
Pre-pubertal T2D	1	4	17	6	21	10	1	0	59
SMAD5 variant	1	12	22	7	35	10	1	0	87
A-B- ketosis prone diabetes	0	0	0	0	0	0	0	0	0
A-B+ ketosis prone diabetes	0	0	0	0	0	0	0	0	0
CERS2 variant	0	0	0	0	0	0	0	0	0
Fulminant	0	0	0	0	0	0	0	0	0

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