

Checklist for Reporting Human Islet Preparations Used in Research

Adapted from Hart NJ, Powers AC (2018) Progress, challenges, and suggestions for using human islets to understand islet biology and human diabetes. Diabetologia <https://doi.org/10.1007/s00125-018-4772-2>.

Manuscript DOI: https://doi.org/10.2337/DB19-0979.R1	
Title: NKG2D signaling within the pancreatic islets reduces NOD diabetes and increases protective central memory CD8+ T cell numbers	
Author list: Andrew P. Trembath, Kelsey L. Krausz, Neekun Sharma, Ivan C. Gerling, Clayton E. Mathews and Mary A. Markiewicz	
Corresponding author: Mary A. Markiewicz	Email address: mmarkiewicz@kumc.edu

Islet preparation	1	2	3	4	5	6	7	8
MANDATORY INFORMATION								
Unique identifier	6013	6024	6048	6075	6012	6099	6140	6162
Donor age (years)	65	21	30	16	68	14.2	38	22.7
Donor sex (M/F)	M	M	M	M	F	M	M	M
Donor BMI (kg/m ²)	24.2	27.8	20.6	14.9	23.7	30	21.7	28.9

Donor HbA _{1c} or other measure of blood glucose control	0	0	0	0	0	0	6	0
Origin/source of islets ^b	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD
Islet isolation centre	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida
Donor history of diabetes? Yes/No	No	No	No	No	No	No	No	No
If Yes, complete the next two lines if this information is available								
Diabetes duration (years)								
Glucose-lowering therapy at time of death ^c								

RECOMMENDED INFORMATION								
Donor cause of death	Cerebrovascular/Stroke	Head Trauma	Cerebrovascular/Stroke	Anoxia	Cerebrovascular/Stroke	Head Trauma	Cerebrovascular/Stroke	Head Trauma
Warm ischaemia time (h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Cold ischaemia time (h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

Estimated purity (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Estimated viability (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total culture time (h) ^d	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glucose-stimulated insulin secretion or other functional measurement ^e	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Handpicked to purity? Yes/No	No	No	No	No	No	No	No	No
Additional notes	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections

^aIf you have used more than eight islet preparations, please complete additional forms as necessary

^bFor example, IIDP, ECIT, Alberta IsletCore

^cPlease specify the therapy/therapies

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Islet preparation	9	10	11	12	13	14	15	16
MANDATORY INFORMATION								
Unique identifier	6168	6227	6129	6165	6102	6229	6251	6010
Donor age (years)	51	17	42.9	45.8	45.1	31	33	47
Donor sex (M/F)	M	F	F	F	F	F	F	F
Donor BMI (kg/m ²)	25.2	26.4	23.4	25	35.1	26.9	29.5	19.7

Donor HbA _{1c} or other measure of blood glucose control	6.2	0	5.2	5.6	6.1	5.5	5.3	0
Origin/source of islets ^b	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD
Islet isolation centre	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida
Donor history of diabetes? Yes/No	No	No	No	No	No	No	No	No
If Yes, complete the next two lines if this information is available								
Diabetes duration (years)								
Glucose-lowering therapy at time of death ^c								

RECOMMENDED INFORMATION								
Donor cause of death	Cerebrovascular/Stroke	Cerebrovascular/Stroke	Anoxia	Cerebrovascular/Stroke	Cerebrovascular/Stroke	Head Trauma	Head Trauma	Cerebrovascular/Stroke
Warm ischaemia time (h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Cold ischaemia time (h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

Estimated purity (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Estimated viability (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total culture time (h) ^d	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glucose-stimulated insulin secretion or other functional measurement ^e	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Handpicked to purity? Yes/No	No	No	No	No	No	No	No	No
Additional notes	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections

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Islet preparation	17	18	19	20	21	22	23	24
MANDATORY INFORMATION								
Unique identifier	6179	6019	6070	6084	6088	6180	6224	6243
Donor age (years)	21.8	42	22.6	14.2	31.2	27.1	21	13
Donor sex (M/F)	F	M	F	M	M	M	F	M
Donor BMI (kg/m ²)	20.7	31	21.6	26.3	27	25.9	22.8	21.3

Donor HbA _{1c} or other measure of blood glucose control	0	5.6	0	0	0	0	0	13.1
Origin/source of islets ^b	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD
Islet isolation centre	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida
Donor history of diabetes? Yes/No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
If Yes, complete the next two lines if this information is available								
Diabetes duration (years)			7	4	5	11	1.5	5
Glucose-lowering therapy at time of death ^c			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

RECOMMENDED INFORMATION								
Donor cause of death	Head Trauma	Head Trauma	Anoxia	Anoxia	Head Trauma	Head Trauma	Anoxia	Cerebrovascular/Stroke
Warm ischaemia time (h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Cold ischaemia time (h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

Estimated purity (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Estimated viability (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total culture time (h) ^d	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glucose-stimulated insulin secretion or other functional measurement ^e	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Handpicked to purity? Yes/No	No	No	No	No	No	No	No	No
Additional notes	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections

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Islet preparation	25	26	27	28	29	30	31	32
MANDATORY INFORMATION								
Unique identifier	6228	6209	6038	6046	6069	6195	6052	6268
Donor age (years)	13	5	37.2	18.8	22.9	19.2	12	12
Donor sex (M/F)	M	F	F	F	M	M	M	F
Donor BMI (kg/m ²)	17.4	11.95	30.9	25.2	28.2	23.7	20.3	26.6

Donor HbA _{1c} or other measure of blood glucose control	13.3	0	0	0	0	0	0	9.8
Origin/source of islets ^b	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD
Islet isolation centre	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida
Donor history of diabetes? Yes/No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
If Yes, complete the next two lines if this information is available								
Diabetes duration (years)	0	0.25	20	8	7	5	1	3
Glucose-lowering therapy at time of death ^c	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

RECOMMENDED INFORMATION								
Donor cause of death	Anoxia	DKA	Anoxia	Anoxia	Head Trauma	Head Trauma	Another	Anoxia
Warm ischaemia time (h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Cold ischaemia time (h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

Estimated purity (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Estimated viability (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total culture time (h) ^d	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glucose-stimulated insulin secretion or other functional measurement ^e	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Handpicked to purity? Yes/No	No	No	No	No	No	No	No	No
Additional notes	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections

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Islet preparation	33	34	35	36	37	38	39	40
MANDATORY INFORMATION								
Unique identifier	6265	6196	6211	6113	6264	6135	6080	6123
Donor age (years)	11	26	24	13.1	12	43.5	69.2	23.2
Donor sex (M/F)	M	F	F	F	F	M	F	F
Donor BMI (kg/m ²)	12.9	26.6	24.4	24.8	22	28.7	21.3	17.6

Donor HbA _{1c} or other measure of blood glucose control	0	0	10.5	0	8.9	0	0	5.4
Origin/source of islets ^b	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD
Islet isolation centre	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida
Donor history of diabetes? Yes/No	Yes	Yes	Yes	Yes	Yes	Yes	No	No
If Yes, complete the next two lines if this information is available								
Diabetes duration (years)	8	15	4	1.58	9	21	0	0
Glucose-lowering therapy at time of death ^c	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

RECOMMENDED INFORMATION								
Donor cause of death	Cerebrovascular/Stroke	Anoxia	Anoxia	Head Trauma	DKA	Anoxia	Cerebrovascular/Stroke	Head Trauma
Warm ischaemia time (h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Cold ischaemia time (h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

Estimated purity (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Estimated viability (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total culture time (h) ^d	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glucose-stimulated insulin secretion or other functional measurement ^e	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Handpicked to purity? Yes/No	No	No	No	No	No	No	No	No
Additional notes	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections

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Islet preparation	41	42	43	44	45	46	47	48
MANDATORY INFORMATION								
Unique identifier	6158	6167	6171	6044	6101	6154	6156	6181
Donor age (years)	40.3	37	4.3	41.4	64.8	48.5	40	31.9
Donor sex (M/F)	M	M	F	M	M	F	M	M
Donor BMI (kg/m ²)	29.7	26.3	14.8	27.4	34.3	24.5	19.8	21.9

Donor HbA _{1c} or other measure of blood glucose control	5.6	0	0	0	0	0	0	0
Origin/source of islets ^b	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD	nPOD
Islet isolation centre	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida	University of Florida
Donor history of diabetes? Yes/No	No	No	No	No	No	No	No	No
If Yes, complete the next two lines if this information is available								
Diabetes duration (years)								
Glucose-lowering therapy at time of death ^c								

RECOMMENDED INFORMATION								
Donor cause of death	Head Trauma	Head Trauma	Anoxia	Head Trauma	Cerebrovascular/Stroke	Head Trauma	Head Trauma	Head Trauma
Warm ischaemia time (h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Cold ischaemia time (h)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown

Estimated purity (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Estimated viability (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total culture time (h) ^d	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glucose-stimulated insulin secretion or other functional measurement ^e	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Handpicked to purity? Yes/No	No	No	No	No	No	No	No	No
Additional notes	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections

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Islet preparation	49	50						
MANDATORY INFORMATION								
Unique identifier	6197	6147						
Donor age (years)	22	23.8						
Donor sex (M/F)	M	F						
Donor BMI (kg/m ²)	28.2	32.9						

Donor HbA _{1c} or other measure of blood glucose control	5.5	5.2						
Origin/source of islets ^b	nPOD	nPOD						
Islet isolation centre	University of Florida	University of Florida						
Donor history of diabetes? Yes/No	No	No						
If Yes, complete the next two lines if this information is available								
Diabetes duration (years)								
Glucose-lowering therapy at time of death ^c								

RECOMMENDED INFORMATION								
Donor cause of death	Head Trauma	Head Trauma						
Warm ischaemia time (h)	Unknown	Unknown						
Cold ischaemia time (h)	Unknown	Unknown						

Estimated purity (%)	N/A	N/A						
Estimated viability (%)	N/A	N/A						
Total culture time (h) ^d	N/A	N/A						
Glucose-stimulated insulin secretion or other functional measurement ^e	N/A	N/A						
Handpicked to purity? Yes/No	No	No						
Additional notes	Islets isolated by laser capture from tissue sections	Islets isolated by laser capture from tissue sections						

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