

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/db21-1066	
Title: The p66 ^{Shc} protein mediates insulin resistance in pancreatic beta-cells under lipotoxic conditions	
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Islet preparation	1	2	3	4	5	6	7	8
MANDATORY INFORMATION								
Unique identifier	F65ND19.53	M70ND20.20	F55ND25.26	M71ND22.46	F67ND21.48	F61ND20.00	M77ND31.25	M78ND26.99
Donor age (years)	65	70	55	71	67	61	77	78
Donor sex (M/F)	F	M	F	M	F	F	M	M
Donor BMI (kg/m ²)	19.53	20.20	25.26	22.46	21.48	20.00	31.25	26.99

Fasting glycemia (mg/dl)	96	81	95	88	96	90	91	84
Origin/source of islets ^b	Bari	Bari	Bari	Bari	Bari	Bari	Bari	Bari
Islet isolation centre	Department of Emergency and Organ Transplantation- University of Bari	Department of Emergency and Organ Transplantation- University of Bari	Department of Emergency and Organ Transplantation- University of Bari	Department of Emergency and Organ Transplantation- University of Bari	Department of Emergency and Organ Transplantation- University of Bari	Department of Emergency and Organ Transplantation- University of Bari	Department of Emergency and Organ Transplantation- University of Bari	Department of Emergency and Organ Transplantation- University of Bari
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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Warm ischaemia time (h)								
Cold ischaemia time (h)	<1	<1	<1	<1	<1	<1	<1	<1

Estimated purity (%)	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
Estimated viability (%)								
Total culture time (h) ^d	24	24	24	24	24	24	24	24
Glucose-stimulated insulin secretion or other functional measurement ^e	N/D	N/D	N/D	N/D	N/D	N/D	N/D	N/D
Handpicked to purity? Yes/No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional notes								

Islet preparation	9	10	11	12	13	14	15	16
MANDATORY INFORMATION								
Unique identifier	F71ND30.47	M57ND25.10	F63ND28.28	UPI_T2DSyst_304	UPI_T2DSyst_266	F66ND19.38	UPI_T2DSyst_235	M64ND21.80
Donor age (years)	71	57	63	80	58	66	52	64

Donor sex (M/F)	F	M	F	F	F	F	F	M
Donor BMI (kg/m ²)	30.47	25.10	28.28	24.80	25.80	19.38	25.40	21.80
Fasting glycemia (mg/dl)	126	116	86	122	104	82	85	162
Origin/source of islets ^b	Bari	Bari	Bari	Pisa	Pisa	Bari	Pisa	Bari
Islet isolation centre	Department of Emergency and Organ Transplantation-University of Bari	Department of Emergency and Organ Transplantation-University of Bari	Department of Emergency and Organ Transplantation-University of Bari	Islet Laboratory – University of Pisa	Islet Laboratory – University of Pisa	Department of Emergency and Organ Transplantation-University of Bari	Islet Laboratory – University of Pisa	Department of Emergency and Organ Transplantation-University of Bari
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	N/A	N/A	N/A	Cerebral hemorrhage	Post-anoxic encephalopathy	N/A	Ischaemic stroke	N/A

Warm ischaemia time (h)								
Cold ischaemia time (h)	<1	<1	<1	36	7	<1	15	<1
Estimated purity (%)	N/D	N/D	N/D	90	60	N/D	60	N/D
Estimated viability (%)								
Total culture time (h) ^d	24	24	24	72	72	24	72	24
Glucose-stimulated insulin secretion or other functional measurement ^e	N/D	N/D	N/D	Yes, evaluated by batch incubation	Yes, evaluated by batch incubation	N/D	Yes, evaluated by batch incubation	N/D
Handpicked to purity? Yes/No	Yes	Yes	Yes	No	No	Yes	No	Yes
Additional notes								

Islet preparation	17							
MANDATORY INFORMATION								

Unique identifier	M68ND24.71							
Donor age (years)	68							
Donor sex (M/F)	M							
Donor BMI (kg/m ²)	24.71							
Fasting glycemia (mg/dl)	81							
Origin/source of islets ^b	Bari							
Islet isolation centre	Department of Emergency and Organ Transplantation- University of Bari							
Donor history of diabetes? Yes/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	N/A							
Warm ischaemia time (h)								
Cold ischaemia time (h)	<1							
Estimated purity (%)	N/D							
Estimated viability (%)								
Total culture time (h) ^d	24							
Glucose-stimulated insulin secretion or other functional measurement ^e	N/D							
Handpicked to purity? Yes/No	Yes							
Additional notes								