

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/DB22-0004	
Title: Ca ²⁺ oscillations, waves, and networks in islets from human donors with and without type 2 diabetes	
Author list: Marko Gosak, Richard Yan-Do, Haopeng Lin, Patrick E. MacDonald, Andraž Stožer	
Corresponding author: Patrick E. MacDonald, Andraž Stožer	Email address: pmacdonald@ualberta.ca , andraz.stozer@um.si

Islet preparation	1	2	3	4	5	6	7	8 ^a
MANDATORY INFORMATION								
Unique identifier	R234	R235	H2169	H2171	R272	R280	R236	R240
Donor age (years)	50	53	26	54	56	17	51	55
Donor sex (M/F)	F	F	M	M	M	F	M	F
Donor BMI (kg/m ²)	31.7	24.5	22.1	33.4	26.9	26.3	35.5	30.9

Donor HbA _{1c} or other measure of blood glucose control	5.7% (38.8 mmol/mol)	5.7% (38.8 mmol/mol)	5.2% (33.3 mmol/mol)	6.3% (45.4 mmol/mol)	5.6% (37.7 mmol/mol)	5.2% (33.3 mmol/mol)	8.6% (70.5 mmol/mol)	6.9% (51.9 mmol/mol)
Origin/source of islets ^b	ADI IsletCore	ADI IsletCore	Alberta Clinical Islet Lab	Alberta Clinical Islet Lab	ADI IsletCore	ADI IsletCore	ADI IsletCore	ADI IsletCore
Islet isolation centre	ADI IsletCore	ADI IsletCore	Alberta Clinical Islet Lab	Alberta Clinical Islet Lab	ADI IsletCore	ADI IsletCore	ADI IsletCore	ADI IsletCore
Donor history of diabetes? Yes/No	No	No	No	No	No	No	Yes	Yes
If Yes, complete the next two lines if this information is available								
Diabetes duration (years)							unknown	2 years
Glucose-lowering therapy at time of death ^c							none	Diet only

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

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

^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

^dTime of islet culture at the isolation centre, during shipment and at the receiving laboratory

^ePlease specify the test and the results

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Islet preparation	1	2	3	4	5	6	7	8 ^a
MANDATORY INFORMATION								
Unique identifier	R244	R262	R263	R307	R276			
Donor age (years)	48	54	71	43	54			
Donor sex (M/F)	F	F	M	M	F			
Donor BMI (kg/m ²)	30.4	22.4	38.3	25.4	24.4			

Donor HbA _{1c} or other measure of blood glucose control	7.5% (58.5 mmol/mol)	5.6% (37.7 mmol/mol)	7.6% (59.6 mmol/mol)	6.5% (457.5 mmol/mol)	7.2% (55.2 mmol/mol)			
Origin/source of islets ^b	ADI IsletCore	ADI IsletCore	ADI IsletCore	ADI IsletCore	ADI IsletCore			
Islet isolation centre	ADI IsletCore	ADI IsletCore	ADI IsletCore	ADI IsletCore	ADI IsletCore			
Donor history of diabetes? Yes/No	Yes	Yes	Yes	Yes	Yes			
If Yes, complete the next two lines if this information is available								
Diabetes duration (years)	3	Unknown	9	2	10			
Glucose-lowering therapy at time of death ^c	Metformin	Metformin	Metformin	Metformin	Insulin			

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

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

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