

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/[insert manuscript submission number] (Example, https://doi.org/10.2337/db18-1234)	
Title: Loss of furin in β cells induces an mTORC1-ATF4 anabolic pathway that leads to β cell dysfunction	
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Islet preparation	1	2	3	4	5	6	7	8 ^a
MANDATORY INFORMATION								
Unique identifier	R246	R253	R125	R131	R137	R170	R173	R191
Donor age (years)	65	57	70	52	56	49	77	54
Donor sex (M/F)	F	M	M	M	F	M	M	M
Donor BMI (kg/m ²)	39.2	25.5	29.4	26	36.7	38.6	35.7	30.6

Donor HbA _{1c} or other measure of blood glucose control	5.8	5.0	7.7	6.8	5.5	6.5	6.7	6.6
Origin/source of islets ^b	Alberta Islet Core							
Islet isolation centre	Alberta Diabetes Institute Islet Core (University of Alberta)	Alberta Diabetes Institute Islet Core (University of Alberta)	Alberta Diabetes Institute Islet Core (University of Alberta)	Alberta Diabetes Institute Islet Core (University of Alberta)	Alberta Diabetes Institute Islet Core (University of Alberta)	Alberta Diabetes Institute Islet Core (University of Alberta)	Alberta Diabetes Institute Islet Core (University of Alberta)	Alberta Diabetes Institute Islet Core (University of Alberta)
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)			25	unknown	2.5	3	4	10
Glucose-lowering therapy at time of death ^c			Metformin	Metformin	Metformin	Metformin	Metformin	Diet controlled

RECOMMENDED INFORMATION								
Donor cause of death	Neurological Determination of Death	Neurological Determination of Death	Neurological Determination of Death	Neurological Determination of Death	Neurological Determination of Death	Neurological Determination of Death	Neurological Determination of Death	Neurological Determination of Death
Warm ischaemia time (h)								

Cold ischaemia time (h)	18.75	14.3	13.5	8.65	2.0	11.3	11.3	14
Estimated purity (%)	75	90	75	70	90	85	85	40
Estimated viability (%)								
Total culture time (h) ^d								
Glucose-stimulated insulin secretion or other functional measurement ^e								
Handpicked to purity? Yes/No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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