

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/db20-1222	
Title: STAT3 regulates mitochondrial gene expression in pancreatic β -cells and its deficiency induces glucose intolerance in obesity	
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Islet preparation	1	2	3	4	5	6	7	8 ^a
MANDATORY INFORMATION								
Unique identifier	2-7-19	12-7-19	28-9-19	3-2-20	24-2-20	3-3-20		
Donor age (years)	80	83	75	46	74	76		
Donor sex (M/F)	M	M	F	F	M	M		
Donor BMI (kg/m ²)	26.3	31.14	27.3	25.4	33	28.4		

Donor HbA _{1c} or other measure of blood glucose control	Normal	Normal	Normal	Normal	Normal	Normal		
Origin/source of islets ^b	Prof Piero Marchetti	Prof Piero Marchetti	Prof Piero Marchetti	Prof Piero Marchetti	Prof Piero Marchetti	Prof Piero Marchetti		
Islet isolation centre	Pancreatic Islet Laboratory in Pisa-Italy	Pancreatic Islet Laboratory in Pisa-Italy	Pancreatic Islet Laboratory in Pisa-Italy	Pancreatic Islet Laboratory in Pisa-Italy	Pancreatic Islet Laboratory in Pisa-Italy	Pancreatic Islet Laboratory in Pisa-Italy		
Donor history of diabetes? Yes/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	Vascular	Vascular	Vascular	Anoxia	Vascular	Vascular		
Warm ischaemia time (h)								
Cold ischaemia time (h)								

Estimated purity (%)	38	50	22	32	21	43		
Estimated viability (%)								
Total culture time (h) ^d	192	144	120	96	96	72		
Glucose-stimulated insulin secretion or other functional measurement ^e								
Handpicked to purity? Yes/No	Yes	Yes	Yes	Yes	Yes	Yes		
Additional notes	STAT3 KD 54%	STAT3 KD 10%	STAT3 KD 47%	STAT3 KD 64%	STAT3 KD 64%	STAT3 KD 57%		

^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