

## 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>.

<b>Manuscript DOI:</b>	
<b>Title:</b> Metformin perturbs pancreatic differentiation from human embryonic stem cells	
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Islet preparation	1	2	3	4	5	6	7	8 <sup>a</sup>
MANDATORY INFORMATION								
Unique identifier	H2130	H2129	H2207					
Donor age (years)	45	74	58					
Donor sex (M/F)	M	M	F					
Donor BMI (kg/m <sup>2</sup> )	25	26.8	23					

Donor HbA <sub>1c</sub> or other measure of blood glucose control	N/A	N/A	N/A					
Origin/source of islets <sup>b</sup>	Clinical Islet Laboratory, University of Alberta Hospital	Clinical Islet Laboratory, University of Alberta Hospital	Clinical Islet Laboratory, University of Alberta Hospital					
Islet isolation centre	Clinical Islet Laboratory, University of Alberta Hospital	Clinical Islet Laboratory, University of Alberta Hospital	Clinical Islet Laboratory, University of Alberta Hospital					
Donor history of diabetes? Yes/No	No	No	No					
<b>If Yes, complete the next two lines if this information is available</b>								
Diabetes duration (years)								
Glucose-lowering therapy at time of death <sup>c</sup>								

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

Cold ischaemia time (h)								
Estimated purity (%)								
Estimated viability (%)								
Total culture time (h) <sup>d</sup>	48	48	48					
Glucose-stimulated insulin secretion or other functional measurement <sup>e</sup>	Glucose-stimulated insulin secretion	Glucose-stimulated insulin secretion	Glucose-stimulated insulin secretion					
Handpicked to purity? Yes/No	Yes	Yes	Yes					
Additional notes								

<sup>a</sup>If you have used more than eight islet preparations, please complete additional forms as necessary

<sup>b</sup>For example, IIDP, ECIT, Alberta IsletCore

<sup>c</sup>Please specify the therapy/therapies

<sup>d</sup>Time of islet culture at the isolation centre, during shipment and at the receiving laboratory

<sup>e</sup>Please specify the test and the results