

## 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> <a href="https://doi.org/10.2337/[insert manuscript submission number]">https://doi.org/10.2337/[insert manuscript submission number]</a> (Example, <a href="https://doi.org/10.2337/db18-1234">https://doi.org/10.2337/db18-1234</a> )	
<b>Title:</b> Dynamic uni- and multicellular patterns encode biphasic activity in pancreatic islets	
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Islet preparation	1	2
<b>MANDATORY INFORMATION</b>		
Unique identifier	P1009	P1107
Donor age (years)	38	55
Donor sex (M/F)	F	F
Donor BMI (kg/m <sup>2</sup> )	25.2	23.2

Donor HbA <sub>1c</sub> or other measure of blood glucose control	Glycemia at pancreatectomy: 7.7 mM	Glycemia at pancreatectomy: 8.4 mM
Origin/source of islets <sup>b</sup>	ECIT	ISLETCHIP
Islet isolation centre	Geneva (CMU)	Geneva (CMU)
Donor history of diabetes? Yes/No	No	No
Diabetes duration (years)	0	0
Glucose-lowering therapy at time of death <sup>c</sup>	None	None

Islet preparation	1	2
<b>RECOMMENDED INFORMATION</b>		
Donor cause of death	Cerebral Haemorrhage	Cerebral Haemorrhage
Warm ischaemia time (h)	0.83	0.98
Cold ischaemia time (h)	4.03	3.97

Estimated purity (%)	90	92
Estimated viability (%)	N/A	85
Total culture time (h) <sup>d</sup>	N/A	N/A
Glucose-stimulated insulin secretion or other functional measurement <sup>e</sup>	N/A	GSIS static incubation (means±SD) % insulin secreted in G2.8: 0.8±0.1% % insulin secreted in G16.7: 1.9±0.5% % insulin secreted in G16.7mM + 5 mM theophyllin: 6.9±1.9% Stimulation index G16.7 vs G2.8: 2.5±0.7 Stimulation index G16.7+theo vs G2.8: 8.9±2.8
Handpicked to purity? Yes/No	No	No
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