

## **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 <u>https://doi.org/10.1007/s00125-018-4772-2</u>.

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**Title:** Potential protection against type 2 diabetes in obesity through lower CD36 expression and improved exocytosis in  $\beta$ -cells

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Islet preparation	73	74	75	76	77	78	79	80 <sup>a</sup>
MANDATORY INFORMATION								
Unique identifier	164	165	166	168	169	172	173	175
Donor age (years)	59	66	66	65	69	45	72	69
Donor sex (M/F)	F	F	М	F	М	М	F	М
Donor BMI (kg/m²)	21.2	22.9	35.1	33.3	30.5	23.5	33.3	22.9

Donor HbA <sub>1c</sub> (%)	5.9	6.3	7.6	7.3	6.1	7.3	5.7	7.4
Origin/source of islets <sup>b</sup>	NICS							
Islet isolation centre	Uppsala University							
Donor history of diabetes? Yes/No	No	Yes	No	Yes	No	Yes	No	Yes
If Yes, complete the next two lines if this information is available								
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 (%)	92	94	70	85	88	80	82	97
Estimated viability (%)								
Total culture time (h) <sup>d</sup>								
Glucose-stimulated insulin secretion (Stimulation index) <sup>e</sup>	34.1	15.1	5.1	3.2	5	2.7	2	2.1
Handpicked to purity? Yes/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: Stimulation index was calculated by dividing the average insulin concentration of the high-glucose phase by that of the low-glucose phase in a dynamic perfusion.