

## 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/DB21-0170">https://doi.org/10.2337/DB21-0170</a> (Example, <a href="https://doi.org/10.2337/db18-1234">https://doi.org/10.2337/db18-1234</a> )	
<b>Title:</b> Syntaxin 4 enrichment in $\beta$ -cells prevents conversion to autoimmune diabetes in non-obese diabetic (NOD) mice	
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Islet preparation	1	2	3	4	5	6	7	8 <sup>a</sup>
<b>MANDATORY INFORMATION</b>								
Unique identifier	UNOS ID: ADDV480	RRID: SAMN08769189	RRID: SAMN10869303	RRID: SAMN10977276				
Donor age (years)	52	49	25	52				
Donor sex (M/F)	M	M	M	M				

Donor BMI (kg/m <sup>2</sup> )	25.4	29.0	27.7	27.2				
Donor HbA <sub>1c</sub> or other measure of blood glucose control	HbA <sub>1c</sub> : 5.5%	HbA <sub>1c</sub> : 5.1%	HbA <sub>1c</sub> : 5.2%	HbA <sub>1c</sub> : 5.7%				
Origin/source of islets <sup>b</sup>	Southern California Islet cell resource Center	Southern California Islet cell resource Center	IIDP	Southern California Islet cell resource Center				
Islet isolation centre	Southern California Islet cell resource Center	Southern California Islet cell resource Center	The Scharp-Lacy Research Institute	Southern California Islet cell resource Center				
Donor history of diabetes? Yes/No	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	Cerebrovascular/Stroke	Cerebrovascular/Stroke	Anoxia	Cerebrovascular/Stroke				
Warm ischaemia time (h)		0 h	0.5 h	0 h				

Cold ischaemia time (h)		No documented	8.4 h	8.1 h				
Estimated purity (%)		75%	95%	85%				
Estimated viability (%)		93%	90%	96%				
Total culture time (h) <sup>d</sup>			111 h					
Glucose-stimulated insulin secretion or other functional measurement <sup>e</sup>		Glucose-stimulated insulin release stimulation (SI): 2.6	Glucose-stimulated insulin release stimulation (SI): 8.9	Glucose-stimulated insulin release stimulation (SI): 2.8				
Handpicked to purity? Yes/No		Yes	Yes	Yes				
Additional notes	We directly picked up the islets, because we are located in the same building with the Southern California Islet cell resource Center.	We directly picked up the islets, because we are located in the same building with the Southern California Islet cell resource Center.		We directly picked up the islets, because we are located in the same building with the Southern California Islet cell resource Center.				

<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