

## 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> Induction of core circadian clock transcription factor Bmal1 enhances $\beta$ cell function and protects against obesity-induced glucose intolerance	
<b>Author list:</b> Kuntol Rakshit and Aleksey V. Matveyenko	
<b>Corresponding author:</b> Aleksey Matveyenko	<b>Email address:</b> Matveyenko.Aleksey@mayo.edu

Islet preparation	1	2	3	4	5	6	7	8 <sup>a</sup>
<b>MANDATORY INFORMATION</b>								
Unique identifier	HP-20019-01T2D	HP-20030-01	HP-20164-01					
Donor age (years)	53	67	57					
Donor sex (M/F)	M	M	M					
Donor BMI (kg/m <sup>2</sup> )	25.8	22.5	24.8					

Donor HbA <sub>1c</sub> or other measure of blood glucose control	6.7%	5.5%	5.1%					
Origin/source of islets <sup>b</sup>	Prodo labs direct purchase	Prodo labs direct purchase	Prodo labs direct purchase					
Islet isolation centre	Prodo Labs	Prodo Labs	Prodo Labs					
Donor history of diabetes? Yes/No	Yes	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	Anoxic event	Stroke						
Warm ischaemia time (h)								
Cold ischaemia time (h)								

Estimated purity (%)	90%	90%						
Estimated viability (%)	95%	95%						
Total culture time (h) <sup>d</sup>								
Glucose-stimulated insulin secretion or other functional measurement <sup>e</sup>								
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