Supplementary Information

Preferences of Type 1 Diabetic Patients on Devices for Islet Transplantation

M. Rezaa Mohammadi^{1,2,*}, Farideh Dehkordi-Vakil³, Joni Ricks-Oddie³, Robert Mansfield⁵, Himala Kashimiri⁴, Mark Daniels⁴, Weian Zhao^{2,6}, Jonathan RT Lakey^{2,7,*}

¹Department of Materials Science and Engineering, University of California, Irvine, CA, 92697, USA.

²Sue and Bill Gross Stem Cell Research Center, University of California, Irvine, CA, 92617, USA.

³Center for Statistical Consulting, Department of Statistics, University of California, Irvine, CA, 92617, USA.

⁴CHOC Children's Endocrine & Diabetes Center, 1201 W. La Veta, Orange, CA, 92868, USA

⁵Juvenile Diabetes Research Foundation Orange County Chapter, Irvine, CA 92606

⁶Department of Pharmaceutical Sciences; Chao Family Comprehensive Cancer Center; Edwards Life Sciences Center for Advanced Cardiovascular Technology; Department of Biomedical Engineering; Department of Biological Chemistry, University of California, Irvine, Irvine, CA 92697, USA

⁷Department of Surgery and Biomedical Engineering, University of California Irvine, Orange, CA, 92868, USA

*Correspondence should be addressed to RM (rezamoha@uci.edu) and JRTL (jlakey@uci.edu)

Dear participant,

One way to treat Type 1 Diabetes (T1D) is by transplanting insulin producing cells known as islets. Ongoing Clinical Trials on implanting insulin secreting cells inside implants show promising results to treat Type 1 Diabetes (T1D). This survey is to help researchers understand your preferences in designing these implants. Your answers to the following questions will help us to design an implant based on your preferences.

Age:	Gender:	How long were you diagnosed?	
1.	What type of treat a. Insulin pump	tment are you using? b. Continuous Glucose Monitor (CGM) c. Both CGM and insulin pump	d. Glucose meter
	e. Inhalable insul	in e. Multiple Dose Injection (MDI) f. Others (please specify)	
2.	If you receive an ir are comfortable in	•	that size and shape
	a. under the ski	n b. In your abdomen c. Outside your body d. Other	s (please specify)
3.	a. Multiple micr	vementioned locations, what shape and size do you prefer? coscopic small disks deposited in a fluid b. A thin device (soft and size of the cree (Size of a 3" pencil) d. Others (please specify)	edit card) c. Rod
4.	How much do you a. Not at all	care about the visibility of the implant on your body? b. Prefer it to be as small as possible c. Not visible at all	
5.	prefer? a. An implant t	an autoimmune disease, where your immune system is dysregulated. Which in that only regulates my glucose level that not only controls my glucose but also capable of regulating my immune sys	
6.	Do you prefer to re a. Yes	eceive an implant fabricated with your own stem cells? b. No	

We appreciate you time and participation.