HPAP004 Donor Summary

HPAP	004	**UNOS**	
Recovery OPO	GLDP	**Allocation Via**	UPENN ☒ nPOD ☐
Age (years)	24	**DCD**	YES ☐ NO ☒
Race	Hispanic	**DBD**	YES ☒ NO ☐
Sex	M ☐ F☒	**Admission to Cross Clamp**	325 Hours 0 Mins.
ABO (Rh)	0+	**Cross Clamp Time**	01/26/2017 @ 09:12EST
BMI (Kg/m^2)	32.22	**Cold Ischemia Time***	9 Hours 11 Mins.
Cause of Death	Anoxia	**Preservation Solution**	UW ☒ HTK☐
Mechanism of Injury	Asphyxiation (Asthma)	**Organs Recovered**	Heart ☒ Kidney ☒ Lung ☐ Pancreas ☒ Liver ☒ Intestine ☐
Cardiac Arrest/Downtime	Yes ☒ 10 Mins. No ☐	**Intraoperative time lapse from liver to pancreas removal from the peritoneal cavity:**	0 Hours 7 Mins.
CPR / Time	Yes ☒ ≃ 15 mins. Hypothermia protocol initiated No ☐	**Organs Discarded**	Heart ☐ Kidney ☐ Lung ☐ Pancreas ☐ Liver ☐ Intestine ☐
Total Est. Downtime	≃ 20 mins.	**Blood Culture**	ND
Date /Time of Admission	1/12/2017 @ 20:13 EST	**PHS High Risk**	YES ☐ NO ☒
		Acute Lung Injury	ARDS

***Cold Ischemia time is calculated from time of cross clamp to start of enzyme perfusion for islet isolation.**

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Medical History:

		Duration	Medications	Compliance
Type of Diabetes	None	----------	----------	
History of cancer	None	----------		
CAD	None	----------		
Asthma	Yes	Age 1	Albuteral, Nebulizer, Steroids	
Hypertension	None	----------		
Hyperlipidemia	None	----------		
Autoimmune disease	None	----------		
Family History	CAD ☒ Mother	Diabetes ☒ Mother & Father	Auto immune disease ☐	Others:
Surgical History:	C-Section 2011			
Comments:	History of Asthma and Seizure @ age one.			

HEMODYNAMIC PROFILE

Average BP During Hospitalization (mm Hg)	110/60	
Average Low BP During Hospitalization (mm Hg)	83/32	**Duration: 2 mins.**
Average BP in OR (mmHg)	100/80	
Average Low BP in OR (mmHg)	95/60	Duration: 10 mins.
Average HR in OR (bpm)	88	
ABG-pH range	7.23 ---7.52	

INTERVENTION

Blood Products/Meds Transfused Before Organ Recovery

Product	Amount (ml)	Units	Total (ml)
Fresh Frozen Plasma	----------	----------	----------
PRBCs	300	3	900
Platelets	----------	----------	----------
Norepinephrine (Levophed)	0.1 -0.3 mcg/Kg/min for 8 hours		
Vasopressin	----------	----------	----------
Neo-Synephrine	----------	----------	----------
Epinephrine	----------	----------	----------
Phenylephrine	----------	----------	----------
Dopamine	----------	----------	----------

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Blood Products/Meds Transfused Intraoperative

Product	Amount (ml)	Units	Total (ml)
Fresh Frozen Plasma	None	**-----**	---
PRBCs	None	-----	-----
Platelets	None	-----	-----
Norepinephrine (Levophed)	None	-----	-----
Vasopressin	None	-----	-----
Neo-Synephrine (phenylephrine)	23mcg/min	-----	-----
Epinephrine	None	-----	-----
Dopamine	None	-----	-----
Heparin		30,000	

Initial Autoantibody Screening (nPOD):

GAD-65	IA-2
Negative	Negative

Confirmatory results (University of Florida) *

	GAD-65 (unit/ml)	IA-2 (unit/ml)	Insulin AAB (unit/ml)	ZnT8 (unit/ml)	C-peptide (ng/ml)	Proinsulin
Results	0	0	0.003	-0.001	6.73	ND
Cut-off values	20	5	0.010	0.020	----------	----------

*Sample obtained at time of organ recovery

HLA (OPO)*

Class 1	**A**	23	74	**Class II**	**DR**	7	15
	B	35	44		**DR51/52/53**	DR51, DR52 Negative	DR53 Positive
	BW4	Positive			**DQB**	2	6
	Bw6	Positive			**DQA**	01	02
	C	2	16		**DPB**	04:01	11:01
Comment:							

*Methodology **RT-PCR

HLA (UPENN)*

Class 1	**A**	23	74	**Class II**	**DR**	7	15
	B	35	44		**DRB3/4/5**	53	----------
	C	W2	16		**DQ**	2	6
	Bw	4	6		**DQA1**	01	02:01
	Bw6				**DPB1**	04:01	11:01
Comment					**DPA1**	02	03:01

***HLA typing performed using RT-PCR**

HPAP004 Donor Summary

Confirmatory HLA (UPENN) *

Class 1	**A**	23:01	74:01	**Class II**	**DRB1**	07:01	15:03
	B	35:01	44:03		**DRB3**	----------	---------
	C	02:10	16:01		**DRB4**	01:01	----------
					DRB5	----------	----------
					DQB1	02:02	06:02
					DQA1	01:02	02:01
					DPB1	04:01	11:01
					DPA1	02:01	03:01

***Performed by Next Generation Sequencing (NGS)**

Infectious Disease Serology

Test	**Result**	**Hemo/Plasma Dilution Status**	
		Qualified	**Non-Qualified**
EBV IgG	Positive	Yes	
EBV IgM	Negative	Yes	
CMV Total Ab	Negative	Yes	
HBcAb	Non-Reactive	Yes	
HBsAg	Non-Reactive	Yes	
HCV Ab	Non-Reactive	Yes	
HIV I/II	Non-Reactive	Yes	
Syphilis	Non-Reactive	Yes	
Procleix Ultrio	----------	----------	----------
Ultrio HBV	Non-Reactive	Yes	
Ultrio HCV	Non-Reactive	Yes	
Ultrio HIV	Non-Reactive	Yes	

Laboratory Panel

	Initial	**Peak**	**Terminal**
Na (135-145)	142	176	147
Creatinine (<1.5)	1.13	1.39	0.5
Glucose (65-150)	295	365	281
HbA1C%	----------	----------	5.4
Total bilirubin (0-1.0)	0.2	0.7	0.5
SGOT (AST) (0-40)	492	492	\34
SGPT (ALT) (5-35)	341	355	50
Alkaline phosphatase (45-100)	100	157	163
Serum Amylase (23-851)	ND	ND	60
Serum Lipase (0-80)	195	195	44
WBC (THO/uL)	7.0	30.8	22.6
Hgb (g/dL)	9.9	10.7	7.8
Platelets (THO/uL)	266	266	163
INR (0.8-1.2)	1.1	1.3	1.07

Urinalysis

	1st	2nd	3rd	
Glucose	>1000	----------	4+	

Medications During Hospitalization

Steroids	Yes – 40 mg for 12 days		
Diuretics	None (Mannitol in OR)		
T3 Protocol	ND		
T4 Protocol*	Yes- started d(-2) before recovery @ 40mcg/hr. and continued until cross clamp		
Insulin**	Yes, 1 unit / hour for 12 days		
Antihypertensive	Yes (Nicardipine/Lopressor)		
Vasodilators	None		
DDAVP**	None		
Total parenteral nutrition	None		
Other		Specify	

***T4 protocol**: Levothyroxine, (20 mcgs), Solumedrol (2 gms,) Dextrose 50%, (1 amp), Regular Insulin (20u), Vasopressin (1 unit)

Mi Z, Novitzky D, Collins JF, Cooper D KC. The optimal hormonal replacement modality selection for multiple organ procurement from brain-dead organ donors. Clinical Epidemiology 2015:7 17-27.

**** Excluding T4 Protocol**