



Recovery OPO  GLDP  Allocation Via  UPENN □ nPOD □  Age (years)  27  DCD  YES □ NO □  Race  African American  DBD  YES □ NO □  Admission to Cross Clamp  Admission to Cross Clamp  ABO (Rh)  O Positive  Cross Clamp Time  O3/15/2023 17:19 EDT  O4/10 Ins  O4/10 Ins  O4/10 Ins  O4/10 Ins  O4/10 Ins  O4/10 Ins  O5/10 Ins  O5/10 Ins  O6/10 Ins  O7/10 Ins  O7/10 Intestine □  O7/10 Int	НРАР	4.4.6	LINOC			
Age (years) 27 DCD YES NO  Race African American DBD YES NO  Sex M M F C Admission to Cross Clamp Time O3/15/2023 17:19 EDT  BMI (Kg/m²) 28.31 Cold Ischemia Time*  BMI (Kg/m²) 184.15  Cause of Death Head Trauma Preservation Solution UW/Belzer Cold Storage/Viaspan/SPS-1  Mechanism of Injury Intraoperative time lapse from liver to pancreas removal from the peritoneal cavity:  CPR / Time Yes M Organs Discarded Heart Kidney Pancreas Liver Min Mins.  Total Est. 4 min Blood Culture No Growth, Day 5  Date / Time of Admission Admission Admission Admission PRS High Risk YES NO Admission Admission Admission PRS High Risk YES NO Admission Admission Admission PRS High Risk YES NO Admission PRS High Risk Preservation PRS High Risk Preservation Preservatio	НРАР	146	UNUS			
Race       African American       DBD       YES ⋈ NO □         Sex       M ⋈ F□       Admission to Cross Clamp       66 Hours 19 Mins.         ABO (Rh)       O Positive       Cross Clamp Time       03/15/2023 17:19 EDT         BMI (Kg/m²)       28.31       Cold Ischemia Time*       18 Hours 17 Mins.         Weight (kg)       96 Height (cm)       184.15       UW ⋈ HTK□       UW/Belzer Cold Storage/Viaspan/SPS-1         Cause of Death       Head Trauma       Preservation Solution       UW Welzer Cold Storage/Viaspan/SPS-1         Mechanism of Injury       Gunshot Wound       Organs Recovered       Heart ⋈ Kidney ⋈ Lung ⋈ Pancreas ⋈ Intestine □         Cardiac Arrest/Downtime       Yes ⋈ No □       Intraoperative time lapse from liver to pancreas removal from the peritoneal cavity:       O Hours O Mins.         CPR / Time       Yes ⋈ No □       Organs Discarded       Heart □ Kidney □ Lung □ Pancreas □ Liver □ Intestine □         Total Est. Downtime       Admission       PhS High Risk       YES □ NO ⋈         Admission       Acute Lung Injury       left pleuroparenchymal	Recovery OPO	GLDP	Allocation Via	UPENN ⊠	nPOD 🗆	
Sex  M S F Sex  Admission to Cross Clamp  ABO (Rh)  O Positive  Cross Clamp Time  O3/15/2023 17:19 EDT  BMI (Kg/m²)  Weight (kg) Height (cm)  Cause of Death  Head Trauma  Preservation Solution  Welchanism of Injury  Mechanism of Injury  Cardiac Arrest/Downtime  CPR / Time  Yes S No Sex  A min CPR in ED to ROSC, 2epi  A min  Total Est. Downtime  Date / Time of Admission  Admission  Admission to Cross Clamp  O Positive  Cross Clamp 100  O3/15/2023 17:19 EDT	Age (years)	27	DCD	YES 🗆 NO	O ⊠	
ABO (Rh) O Positive Cross Clamp Time 03/15/2023 17:19 EDT  BMI (Kg/m²) 28.31 Cold Ischemia Time* 18 Hours 17 Mins.  Weight (kg) 96 Time*  Head Trauma Preservation Solution UW ⋈ HTK□ UW/Belzer Cold Storage/Viaspan/SPS-1  Mechanism of Injury Intraoperative time lapse from liver to pancreas removal from the peritoneal cavity:  CPR / Time Yes ⋈ No □ 4 min CPR in ED to ROSC, 2epi Viaspan Discarded No □ Liver □ Intestine □  Total Est. A min Blood Culture No Growth, Day 5  Date / Time of Admission Acute Lung Injury left pleuroparenchymal	Race	African American	DBD	YES 🗵 NO		
BMI (Kg/m²) Weight (kg) Height (cm)  Cause of Death  Head Trauma  Preservation Solution  UW ☑ HTK☐ UW/Belzer Cold Storage/Viaspan/SPS-1  Mechanism of Injury  Mechanism of Injury  Cardiac Arrest/Downtime  Arrest/Downtime  Preservation Solution  UW ☑ HTK☐ UW/Belzer Cold Storage/Viaspan/SPS-1  Heart ☑ Kidney ☑ Pancreas ☑ Liver ☑ Intestine ☐  Intraoperative time lapse from liver to pancreas removal from the peritoneal cavity:  CPR / Time  Yes ☑ No ☐ 4 min  Preservation Solution  UW ☑ HTK☐ UW/Belzer Cold Storage/Viaspan/SPS-1  Heart ☑ Kidney ☑ Pancreas ☐ Liver ☑ Hours ② Mins.  Intraoperative time lapse from liver to pancreas removal from the peritoneal cavity:  Organs Discarded Heart ☐ Lung ☐ Pancreas ☐ Liver ☐ Intestine ☐  Total Est. Downtime  Date / Time of Admission  Acute Lung Injury  Ieft pleuroparenchymal	Sex	M⊠ F□		66 Hours	Mins.	
Weight (kg)       96       Time*         Leight (cm)       184.15       Time*         Cause of Death       Head Trauma       Preservation Solution       UW ⋈ HTK□ UW/Belzer Cold Storage/Viaspan/SPS-1         Mechanism of Injury       Gunshot Wound       Organs Recovered       Heart ⋈ Kidney ⋈ Pancreas ⋈ Liver ⋈ Intestine □         Cardiac       Yes ⋈ No □       Intraoperative time lapse from liver to pancreas removal from the peritoneal cavity:       □ Hours □ Mins.         CPR / Time       Yes ⋈ No □       Organs Discarded       Heart □ Kidney □ Pancreas □ Liver □ Intestine □         Total Est. No □       4 min       Blood Culture       No Growth, Day 5         Total Est. Downtime       4 min       Blood Culture       No Growth, Day 5         Date / Time of Admission       03/12/2023 23:00 EDT       PHS High Risk       YES □ NO ⋈	ABO (Rh)	O Positive	Cross Clamp Time	03/15/2023	17:19 EDT	
Solution	Weight (kg)	96		18 Hours	17 Mins.	
Injury    Cardiac		Head Trauma		UW/Belzer Cold		
Arrest/Downtime    No		Gunshot Wound	Organs Recovered	Lung 🗵	Pancreas 🗵	
No □ 4 min    Lung □   Lung □   Intestine □    Liver □   Intestine □    Downtime   Date /Time of   Admission   Acute Lung Injury   left pleuroparenchymal		No □ 4 min CPR in ED to ROSC,	time lapse from liver to pancreas removal from the	0 Hours	0 Mins.	
Downtime       Date /Time of Admission       03/12/2023 23:00 EDT       PHS High Risk       YES □ NO ☒         Acute Lung Injury       left pleuroparenchymal	CPR / Time	No □	Organs Discarded	Lung 🗆	Pancreas	
Admission Acute Lung Injury left pleuroparenchymal		4 min	Blood Culture	No Growth, Day 5		
	II	03/12/2023 23:00 EDT	PHS High Risk	YES 🗆 NO	) 🗵	
			Acute Lung Injury			

<sup>\*</sup>Cold Ischemia time is calculated from time of cross clamp to start of enzyme perfusion for islet isolation.

# **HPAP-146 Donor Summary**



## Medical History:

		Duration	Medications	Compliance		
Type of Diabetes	None					
	(control)					
History of cancer						
CAD						
Hypertension						
Hyperlipidemia						
Autoimmune disease						
Family History	CAD ⊠	Diabetes 🛛	Auto immune disease	Others:		
	Mother, maternal aunt	maternal grandmother,				
Surgical History:	None					
Comments:	Medical H	k: Allergic to N	ovocain, heart murmur as a chi	ld, never treated,		
	Social Hx: drinking beer/liquor, 3 drinks 2-3 times per week since age 21					
	Smoking Hx: smoked ¼ PPD cigarettes for 9-10 years					
	drug Hx: S	norted Cocain	e 2 years (sporadically), Mariju	ana 5 years (daily)		

## **Hemodynamic Profile**

Average BP During Hospitalization (mmHg)	120/61	
Average Low BP During Hospitalization	74/42	Duration: 60 min.
Average BP in OR (mmHg)	120/55	
Average Low BP in OR (mmHg)	30/20	Duration: 1 min.
Average HR in OR (bpm)	115	
ABG-pH range	7.12 – 7.38	

#### **INTERVENTION**

## **Blood Products/Meds Transfused Before Organ Recovery**

Product	Amount (ml)	Units	Total (ml)	
Fresh Frozen Plasma				
PRBCs				
Platelets				
Norepinephrine (Levophed)		10 mcg/kg/min started 63:19 hrs. before organ recovery for the duration of 28:00 hrs.		
Vasopressin		1 - 2.4 units/hr. started47:19 hrs. before organ recovery		
Neo-Synephrine				
Epinephrine				
Phenylephrine				
Dopamine				

## **HPAP-146 Donor Summary**



#### **Blood Products/Meds Transfused Intraoperative**

Product	Amount (ml)	Units	Total (ml)
Fresh Frozen Plasma			
PRBCs			
Platelets			
Norepinephrine (Levophed)			
Vasopressin			
Neo-Synephrine (phenylephrine)		50 mcg/hr	
Epinephrine			
Dopamine			
Heparin		30,000	

## Initial Autoantibody Screening (nPOD): ELISA

GAD-65	IA-2
NA	NA

## **Confirmatory results: Radioimmuno Assay (RIA)**

	GAD-65 (unit/ml)	IA-2 (unit/ml)	Insulin AAB (unit/ml)	ZnT8 (unit/ml)
Results	0	0	-0.001	-0.003
<b>Cut-off values</b>	20	5	0.010	0.020

<sup>\*</sup>Sample obtained at time of organ recovery.

	C-peptide (ng/ml)	Proinsulin
Results	9.56	ND

<sup>\*</sup>Sample obtained at time of organ recovery.

## HLA (OPO)\*

Class 1	Α	11	36	Class II	DR	11	11
	В	51	53	1	DR51	N-Negative	N-Negative
	С	04	15	=	DR52	52	N-Negative
	Bw4	Positive			DR53	N-Negative	N-Negative
	Bw6	Negative			DQB1	7	6
					DQA1	01	05
					DPB1	02:01	03:01
					DPA1	01	01
Comment:	_	_					





# Confirmatory HLA (UPENN)\*

Class 1	Α	11:01	36:01	Class II	DRB1	11:01	
	В	51:01	53:01		DRB3	02:02	
	С	04:01	15:02		DRB4		
					DRB5		
					DQB1	03:01	06:02
					DQA1	01:02	05:05
					DPB1	02:01	03:01
					DPA1	01:03	

<sup>\*</sup>HLA typing performed using NGS

#### **Infectious Disease Serology**

		Hemo/Plasma	Dilution Status
Test	Result	Qualified	Non-Qualified
EBV IgG	Positive	✓	-
EBV IgM	Negative	✓	-
CMV	Positive	✓	-
HBcAb	Non- Reactive	✓	-
HBsAg	Non- Reactive	<b>√</b>	-
HCV Ab	Non- Reactive	<b>√</b>	-
HIV I/II	Non- Reactive	✓	-
Syphilis	Non- Reactive	<b>√</b>	-
Procleix Ultrio	Non-Reactive	_	-
Ultrio HBV	Non- Reactive	<b>√</b>	-
Ultrio HCV	Non- Reactive	<b>√</b>	-
Ultrio HIV	Non- Reactive	<b>√</b>	-
Toxoplasma Ab	NA	_	-
SARS-CoV-2	Negative	✓	-

## **HPAP-146 Donor Summary**



#### **Laboratory Panel**

	Initial	Peak	Terminal
Na (mEq/L) (135-145)	143	161	144
Creatinine (<1.5)	1.1	1.4	1
Glucose (mg/dL) (60-150)	288	342	342
HbA1C%	5.5		
Total bilirubin (0-1.0)	0.9	0.9	0.3
SGOT (AST) (0-40)	148	148	29
SGPT (ALT) (5-35)	98	98	43
Alkaline phosphatase (45-110)	75	76	59
Serum Amylase (23-851)	86	208	59
Serum Lipase (0-80)	33	33	10
WBC (THO/uL) (4.5-11.0)	13.1	15.9	14.6
Hgb (g/dL) (12-16)	13.1	14.3	9.4
Platelets (THO/uL) (150-350)	173	173	91
INR (<2.0)	1.3	1.5	1.3

#### Urinalysis

	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>
Glucose	150	50	>500	NA

## **Medications During Hospitalization**

Steroids**			
Diuretics	Lasix 80 mgs, Mannitol 50 gms		
T3 Protocol			
T4 Protocol*	20-40 mcg started 40:49 hrs before organ recovery		
Insulin**	Insulin regular 20 units, Insulin aspart 5 units started 16:30hrs. before organ		
	recovery		
Antihypertensive	Nicardipine 5 mg/hr started 64:49 hrs before organ recovery for the duration		
	of 21:30hrs, Labetolol 20 mg started 20:57 before organ recovery		
Vasodilators			
DDAVP**			
Total parenteral nutrition			
Other	Methylprednisolone 2gm, Cefepime 1gm, Specify		
	Detxtrose50%, Calcium Gluconate 1gm		

<sup>\*</sup>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.

<sup>\*\*</sup> Excluding T4 Protocol