

HPAP-178 Donor Summary



| | | | |
|--------------------------------|--|---|---|
| HPAP | 178 | UNOS | |
| Recovery OPO | ORUO - Cascade Life Alliance | Allocation Via | UPENN <input type="checkbox"/> nPOD <input checked="" type="checkbox"/> |
| Age (years) | 13 | DCD | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |
| Race | White | DBD | YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> |
| Sex | M <input type="checkbox"/> F <input checked="" type="checkbox"/> | Admission to Cross Clamp | <input type="text" value="126"/> Hours <input type="text" value="18"/> Mins. |
| ABO (Rh) | A (Rh?) | Cross Clamp Time | 7-12-24 @ 0507 PDT |
| BMI (Kg/m²) | 26.172 | Cold Ischemia Time* | <input type="text" value="26"/> Hours <input type="text" value="35"/> Mins. |
| Weight (kg) | 67.000 | | |
| Height (cm) | 160.00 | | |
| Cause of Death | ANOXIA | Preservation Solution | UW <input checked="" type="checkbox"/> HTK <input type="checkbox"/> |
| Mechanism of Injury | DEATH FROM NATURAL CAUSES | Organs Recovered | Heart <input checked="" type="checkbox"/> Kidney <input checked="" type="checkbox"/> Lung <input checked="" type="checkbox"/> Pancreas <input checked="" type="checkbox"/> Liver <input checked="" type="checkbox"/> Intestine <input type="checkbox"/> |
| Cardiac Arrest/Downtime | Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown | Intraoperative time lapse from liver to pancreas removal from the peritoneal cavity: | <input type="text" value="00"/> Hours <input type="text" value="00"/> Mins. Liver: 07/12/2024 06:02 Pancreas: 07/12/2024 06:02 |
| CPR / Time | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 10 minutes | Organs Discarded | Heart <input type="checkbox"/> Kidney <input type="checkbox"/> Lung <input type="checkbox"/> Pancreas <input type="checkbox"/> Liver <input type="checkbox"/> Intestine <input type="checkbox"/> |
| Total Est. Downtime | Unknown | Blood Culture | 48 Hour Result - NGTD |
| Date /Time of Admission | 07/06/2024 22:49 PDT | PHS High Risk | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |
| | | Acute Lung Injury | Initial: Left lower lobe opacities with small effusion, likely aspiration. Follow-ups: Improvement with no new issues. |

*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 | T1D | 10 YEARS | Daily Insulin shots | yes |
| History of cancer | ----- | ----- | ----- | ----- |
| CAD | ----- | ----- | ----- | ----- |
| Hypertension | ----- | ----- | ----- | ----- |
| Hyperlipidemia | ----- | ----- | ----- | ----- |
| Autoimmune disease | ----- | ----- | ----- | ----- |
| Family History | CAD <input type="checkbox"/> | Diabetes <input checked="" type="checkbox"/> Maternal grandmother and aunt both have type II | Auto immune disease <input type="checkbox"/> | Others: |
| Surgical History: | None | | | |
| Comments: | Medical Hx: Allergies: Mold, dust mites, pollen, Asthma, DM, Suspected Autoimmune Disease Medication Hx: Allergy medication for general allergies; Iron pill for Anemia, albuterol inhaler ti use after physical engaging in physical activity ETOH Hx: Wine 1 sip once this past Christmas | | | |

Hemodynamic Profile

| | | |
|--|---------|----------------|
| Average BP During Hospitalization (mmHg) | 136/70 | |
| Average Low BP During Hospitalization | 75/44 | Duration: 5 M. |
| Average BP in OR (mmHg) | 133/94 | |
| Average Low BP in OR (mmHg) | 60/40 | Duration: 2 M. |
| Average HR in OR (bpm) | 110 | |
| ABG-pH range | 7 – 7.5 | |

INTERVENTION

Blood Products/Meds Transfused Before Organ Recovery

| Product | Amount (ml) | Units | Total (ml) |
|---------------------------|-------------|--|------------|
| Fresh Frozen Plasma | ----- | ----- | ----- |
| PRBCs | ----- | ----- | ----- |
| Platelets | ----- | ----- | ----- |
| Norepinephrine (Levophed) | ----- | 0.04 MCG/KG/MIN started 119:53 hrs. before organ recovery for the duration of 15:36 hrs. | |
| Vasopressin | ----- | 3 munit/kg/h started 120:33 hrs. before organ recovery | |
| Neo-Synephrine | ----- | ----- | ----- |
| Epinephrine | ----- | 0.15 MCG/KG/MIN started 125:22 hrs before organ recovery for the duration of 22:27 hrs. | |
| Phenylephrine | ----- | ----- | ----- |
| Dopamine | ----- | ----- | ----- |

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Blood Products/Meds Transfused Intraoperative

| Product | Amount (ml) | Units | Total (ml) |
|--------------------------------|-------------|---|------------|
| Fresh Frozen Plasma | ----- | ----- | ----- |
| PRBCs | ----- | ----- | ----- |
| Platelets | ----- | ----- | ----- |
| Norepinephrine (Levophed) | ----- | ----- | ----- |
| Vasopressin | ----- | 3 munit/kg/h for the duration of 1:44 hrs. before organ recovery Arginine vasopressin: started 120: 33 before organ recovery | |
| Neo-Synephrine (phenylephrine) | ----- | ----- | ----- |
| Epinephrine | ----- | ----- | ----- |
| Dopamine | ----- | ----- | ----- |
| Heparin | ----- | 21,000 | ----- |

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 | 3 | 1 | 0.000 | 0.008 |
| Cut-off values | 20 | 5 | 0.01 | 0.02 |

*Sample obtained at time of organ recovery.

| | C-peptide (ng/ml) | Proinsulin |
|---------|----------------------|------------|
| Results | <0.02 | ND |

*Sample obtained at time of organ recovery.

HLA (OPO)*

| | | | | | | | |
|----------|-----|----------|----|----------|------|------------|------------|
| Class 1 | A | 1 | 31 | Class II | DR | 17 | 4 |
| | B | 8 | 60 | | DR51 | N-Negative | N-Negative |
| | C | 10 | 07 | | DR52 | 52 | N-Negative |
| | Bw4 | Negative | | | DR53 | 53 | N-Negative |
| | Bw6 | Positive | | | DQB1 | 2 | 8 |
| | | | | | DQA1 | 03 | 05 |
| | | | | | DPB1 | 04:01 | 06:01 |
| | | | | | DPA1 | 01 | 01 |
| Comment: | | | | | | | |

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Confirmatory HLA (UPENN)*

| | | | | | | | |
|---------|---|-------|-------|----------|------|-------|-------|
| Class 1 | A | 01:01 | 31:01 | Class II | DRB1 | 03:01 | 04:04 |
| | B | 08:01 | 40:01 | | DRB3 | 01:01 | ----- |
| | C | 03:04 | 07:01 | | DRB4 | ----- | 01:03 |
| | | | | | DRB5 | ----- | ----- |
| | | | | | DQB1 | 02:01 | 03:02 |
| | | | | | DQA1 | 03:01 | 05:01 |
| | | | | | DPB1 | 04:01 | 06:01 |
| | | | | | DPA1 | 01:03 | ----- |

*HLA typing performed using NGS

Infectious Disease Serology

| Test | Result | Hemo/Plasma Dilution Status | |
|--------------------------|--------------|-----------------------------|---------------|
| | | Qualified | Non-Qualified |
| EBV IgG (EBV (VCA) IgG) | Negative | ✓ | - |
| EBV IgM EBV (VCA) (IgM): | ND | - | - |
| EBNA | Negative | ✓ | - |
| CMV | Negative | ✓ | - |
| HBcAb | Nonreactive | ✓ | - |
| HBsAg | Nonreactive | ✓ | - |
| HCV Ab | Nonreactive | ✓ | - |
| HIV I/II | Negative | ✓ | - |
| Syphilis | Nonreactive | ✓ | - |
| Procleix Ultrio | ND | - | - |
| Ultrio HBV (HBV NAT) | Negative | ✓ | - |
| Ultrio HCV (HCV NAT) | Negative | ✓ | - |
| Ultrio HIV (HIV NAT) | Negative | ✓ | - |
| Toxoplasma Ab | Negative | ✓ | - |
| SARS-CoV-2 | Not Detected | ✓ | - |



HPAP-178 Donor Summary

Laboratory Panel

| | Initial | Peak | Terminal |
|-------------------------------|------------------|-------|----------|
| Na (mEq/L) (135-145) | 138 | 154 | 147 |
| Creatinine (<1.5) | 1.6 | 1.6 | 0.72 |
| Glucose (mg/dL) (60-150) | 808 | 808 | 304 |
| HbA1C% | 11.1 | ----- | ----- |
| Total bilirubin (0-1.0) | 0.4 | 0.9 | 0.6 |
| SGOT (AST) (0-40) | 421 | 421 | 73 |
| SGPT (ALT) (5-35) | 176 | 176 | 63 |
| Alkaline phosphatase (45-110) | 183 | 183 | 104 |
| Serum Amylase (23-851) | 59 (07/10/2024) | NA | NA |
| Serum Lipase (0-80) | 94 (07/10/2024) | NA | NA |
| WBC (THO/uL) (4.5-11.0) | 19.5 | 19.5 | 5.7 |
| Hgb (g/dL) (12-16) | 12 | 12 | 10.1 |
| Platelets (THO/uL) (150-350) | 481 | 481 | 109 |
| INR (<2.0) | 1.15 | 1.38 | 1.38 |

Urinalysis

| | 1 st - 2 nd | 3 rd | 4 th | 5 th | 6 th |
|---------|-----------------------------------|-----------------|-----------------|-----------------|-----------------|
| Glucose | Positive: >500 | Positive: >100 | Positive: >500 | Positive: 50 | Positive: >500 |

Medications During Hospitalization

| | | | |
|----------------------------|--|---------|--|
| Steroids** | Solumedrol | | |
| Diuretics | Diurel , Lasix q12 hrs. started 82:36 hrs. before organ recovery | | |
| T3 Protocol | ----- | | |
| T4 Protocol* | Yes | | |
| Insulin** | Insulin gtt, started 125:52 hrs before organ recovery | | |
| Antihypertensive | Yes | | |
| Vasodilators | ----- | | |
| DDAVP** | ----- | | |
| Total parenteral nutrition | ----- | | |
| Other | 3% NACL Q4, Cefepime q12hrs, 25% Alb Solucortef q6hrs, Vasopressin gtt, papaverine gtt, Heparine single dose, Vancomycin q12 hrs. Arginine vasopressin, Esmolol, Levothyroxine | 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