Cardiovascular disease (CVD) is leading cause of mortality in the United States. Tissues from patients who have undergone cardiac surgery or heart transplant have been actively collected and stored in the Biorepository. Samples ranging from myocardial and aortic valves, left ventricular tissue from patients implanting Left Ventricular Assist Device (LVAD), atrial septum and right ventricular tissue are collected in various tissues of the explanted heart. With these resources, we are able to support a number of research projects and grant applications of principles investigators across from different departments, such as Cardiac Surgery, Pediatric Cardiology, Clinical Pharmacology, Pediatric Cardiac Surgery, Pathology and Biomedical Engineering. Our goal is to establish a comprehensive Vanderbilt Heart Registry/Biorepository supplemented with long-term follow-up clinical information, and to provide valuable resource for cardiovascular translational and clinical research.

**Patients interested in VHVI HR:**
- Patients
- Patients deceased
- DNA
- Heart tissue
- Specimen stored in Core Lab
- Tissue entered into RedCap

**Follow up every year**

**Results and Discussion**

1. The demographics of patients enrolled in the VHVI Main Heart Registry

<table>
<thead>
<tr>
<th>Age (years)</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>600</td>
<td>800</td>
</tr>
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</tbody>
</table>

HTN: Hypertension; DM: Diabetes Mellitus; HF: Heart Failure; MI: Myocardial Infarction; HLD: Hyperlipidemia.

2. Human Heart Tissue Bank for Flashed Frozen Tissue, OCT embedded Tissue, Paraffin embedded Tissue

3. Vanderbilt Pediatric Heart Tissue Bank for Congenital Heart Disease (PI: Dr. David Bichell)

**How to request VHVI HR Samples**

- Contact Mary Beth Davis at the CRE, and fill out the VHVI Biorepository sample request form.
- Obtain IRB approval for your project. (An expedited IRB review for every project working with registry samples)
- Provide one page description of your proposed study project.
- The request will be reviewed by members of the Scientific Review Committee (SRC). If requested, a 3-5 minutes PowerPoint presentation should be given to the SRC.
- You will be notified via email upon the approval by SRC.

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