Heart Transplants and the Artificial Heart BY: ALEXIS STERNS

Human Heart

- Vital organ that functions as a pump
- Divided into four chambers
- About the size of a large fist
- Blood flows in one direction

Artificial Heart

- A device used to replace the heart
- Typically used to temporarily
- Jarvik-7
- 13 day old baby is the youngest with an artificial heart

History of Artificial Heart

- First clinical implantation of total artificial heart
- First clinical application of a permanent pneumatic total artificial heart
- First clinical application of an intrathoracic pump
- First clinical application of a paracorporeal pump

Heart Transplants

- A surgical transplant procedure to replace the heart
- Human hearts are received from recent deceased organ donors
- Owner's heart can be removed or left in its body
- NOT a cure for diseased hearts

Reasons for Heart Transplants

- Heart failure
 - 1. coronary artery disease
 - 2. high blood pressure
 - 3. atrial fibrillation
 - 4. valvular heart disease
 - 5. cardiomyopathy
- Congestive heart failure