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Mods: ¾
Anatomy
Outline

***Heart Transplantation:** Why transplant, source of organ, how to transplant, Newer/future tech.

***Description:** a **cardiac transplant** is a surgical transplant procedure performed on patients with end-stage heart failure or severe coronary artery disease. As of 2008 the most common procedure was to take a working heart from a recently deceased organ donor (cadaveric allograft) and implant it into the patient.

***Organ Function:** The heart is a two-stage electric pump whose job it is to circulate blood through the body. The initial electrical impulse that begins the process of a heartbeat is generated by a group of cells located in the upper chamber of the heart, the atrium. These cells act as an automatic pacemaker, starting the electric signal that spreads along the "wiring" within the heart muscle, allowing a coordinated squeeze so that the pump can function. The heart has four chambers. The upper chambers are the right and left atria (singular = atrium) while the lower chambers are the right and left ventricles. The right side of the heart pumps blood to the lungs while the left side pumps it to the rest of the body.

***Resources List:**

http://www.medicinenet.com/heart_rhythm_disorders/article.htm

<http://www.innerbody.com/image/card01.html>

Satistics: National Heart Transplant Statistics:

- The national 6 month heart transplant survival rate increased from 86.1% in 1999 to 91.6% in 2009

- The national 1 year heart transplant survival rate increased from 81.5% in 1991 to 88.6% in 2008
- The national 5 year heart transplant survival rate increased from 66.2% in 1993 to 73.1% in 2004
- The national 10 year heart transplant survival rate increased from 45.7% in 1991 to 53% in 1999

The number of patients with a functioning heart graft has increased by almost 50% between 1998 and 2009, from 13,715 to 20,369.

*Heart transplant life expectancy statistics and heart transplant survival rate data courtesy of the [Scientific Registry of Transplant Recipients](#).

Heart/Lung Transplant Procedures

Heart/lung transplants generally involve the transplantation of two lungs with the heart. There have been very few heart/lung transplants performed using only one lung.

The number of heart transplantations worldwide, according to the ISHLT.

