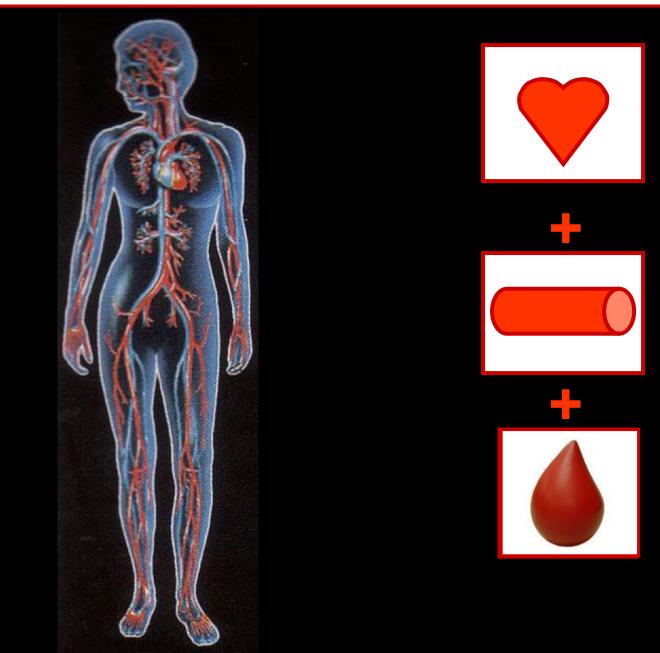
BI 121 Lecture 8

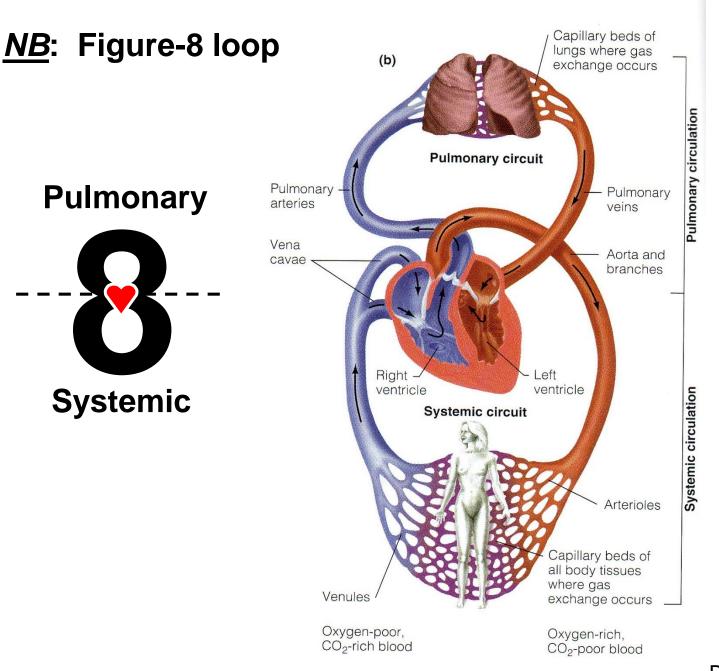


....We're back & rarin' to go for last 2 weeks!

- I. <u>Announcements</u> HR & BP Lab 4 tomorrow + <u>Required</u> <u>Notebook</u> <u>Check</u>. Turn in today or tomorrow? Q about LM? Please read Blood Chemistry Lab 5 twice < Thurs. Thanks!</p>
- II. <u>Cardiovascular System</u> LS 2012 ch 9, Torstar Books 1984,
 - DC 2013 Module 4, Guyton & Hall (G&H) 2011 +...
 - A. Circulatory vs Cardiovascular (CV)? cf + parts LS pp 229, CV vs Lymphatic, DC pp 23, 31
 - B. CV Pulmonary & Systemic circuits DC fig 4-1 p 24, LS fig 9-2b p 231
 - C. Arteries, capillaries, veins G&H +Torstar
 - D. Varicose veins? Phlebitis? DC
 - E. Values, box, chambers, values, inlets, outlets
 LS fig 9-4 p 233, fig 9-2a p 231; DC pp 23-6
 - F. Normal vs abnormal blood flow thru ***** & CV system Billy has a hole in his ***** SI Fox 2009 fig 13.16, 13.17
- III. Comments on Midterm & Tests Returned

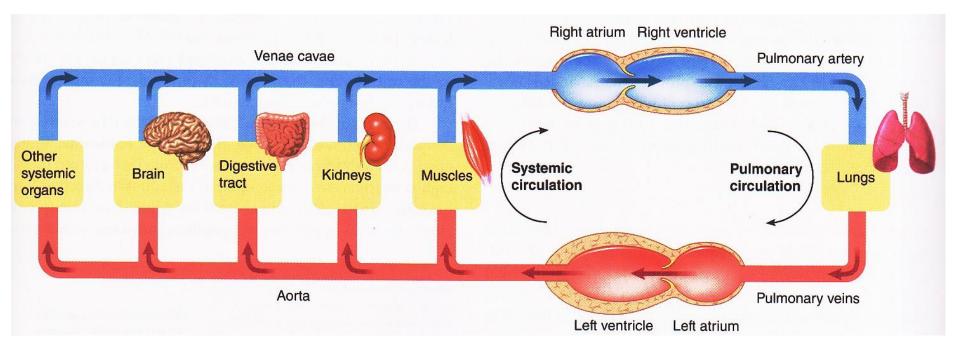
Cardiovascular (CV) = Heart + Vessels + Blood!



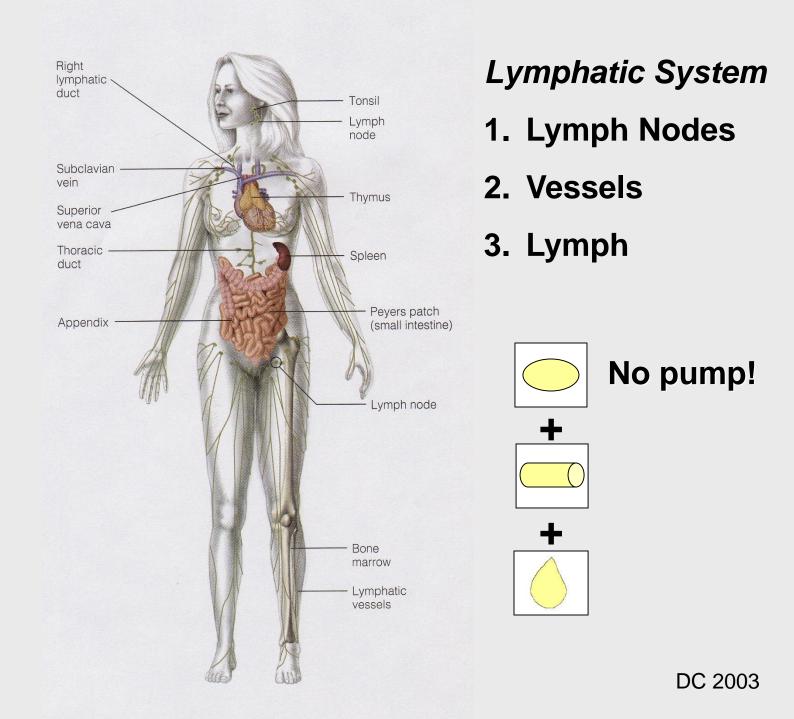


D Chiras 2013 fig 4-1b

Dual Pump Action & Parallel Circulation



LS 2012 fig 9-2b p 231



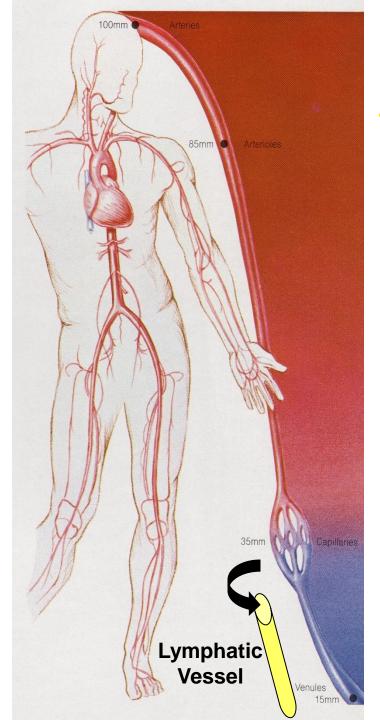


Alternative System of Circulation or Drainage System

Lymph Vessels || Veins

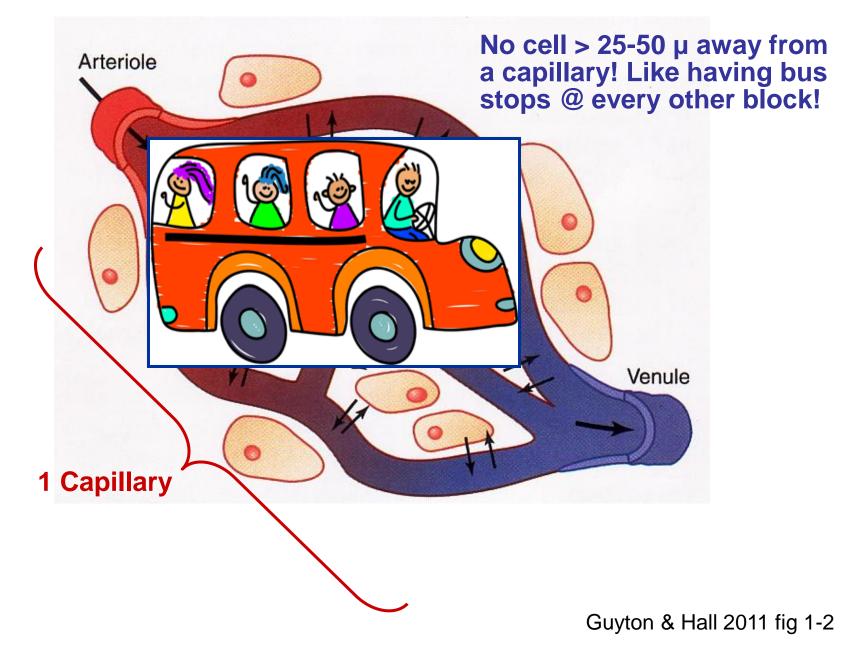
Lymphatic System Blockage in Elephantiasis from Mosquito-borne Parasitic Filaria Worm

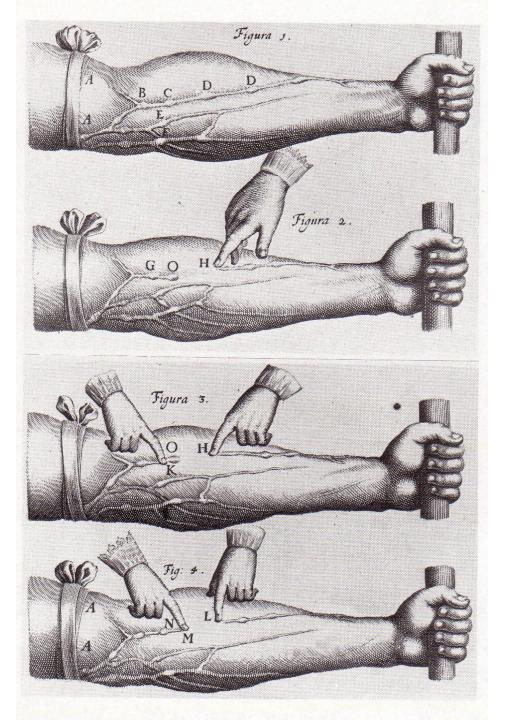




Lymphatics collect runoff & are parallel to venules/small veins!

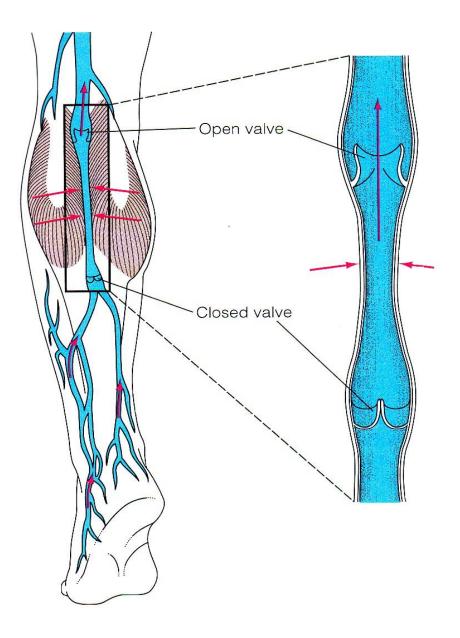
Microcirculation Exchange: 10 Billion Capillaries!





Harvey Experiments: 1-way system of venous valves!

Skeletal Muscle Pump

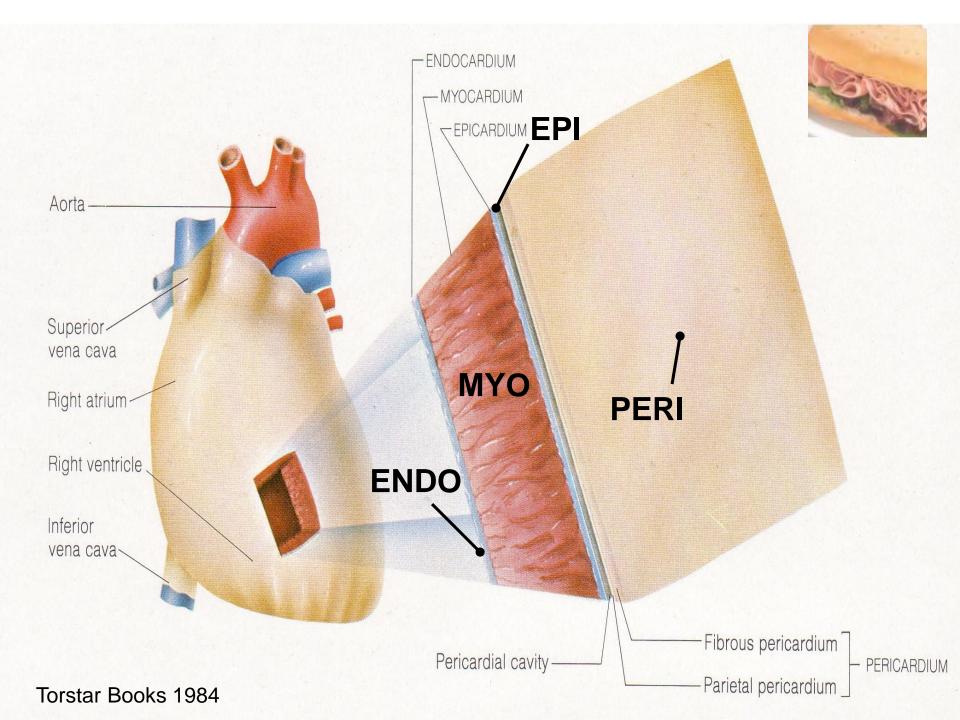


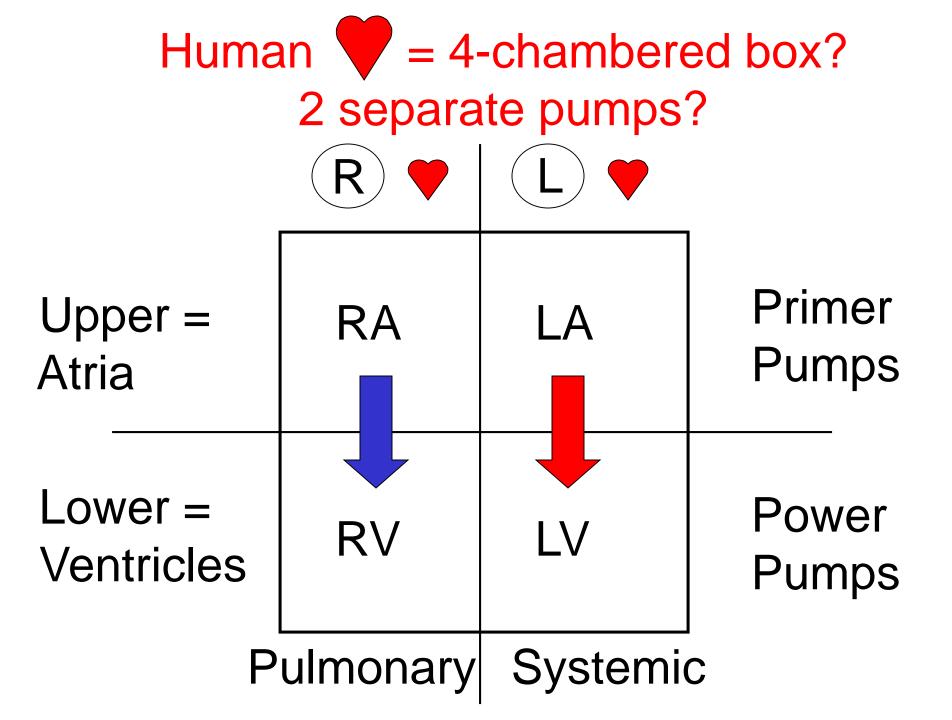


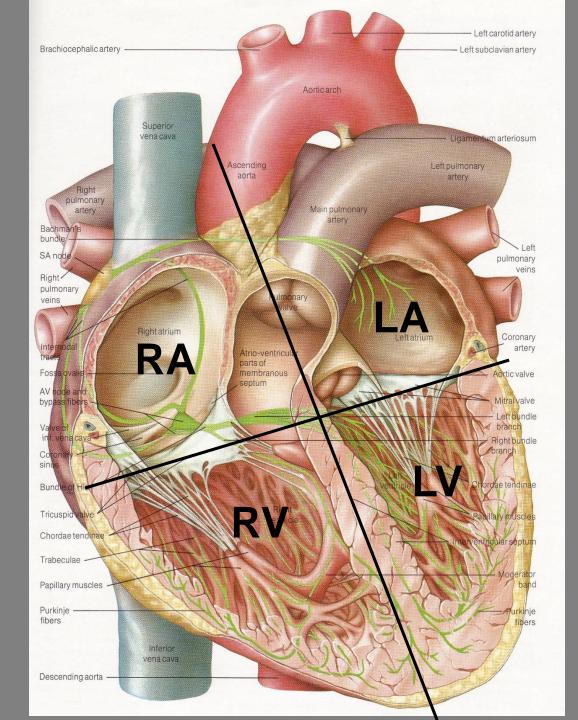
DC 2003



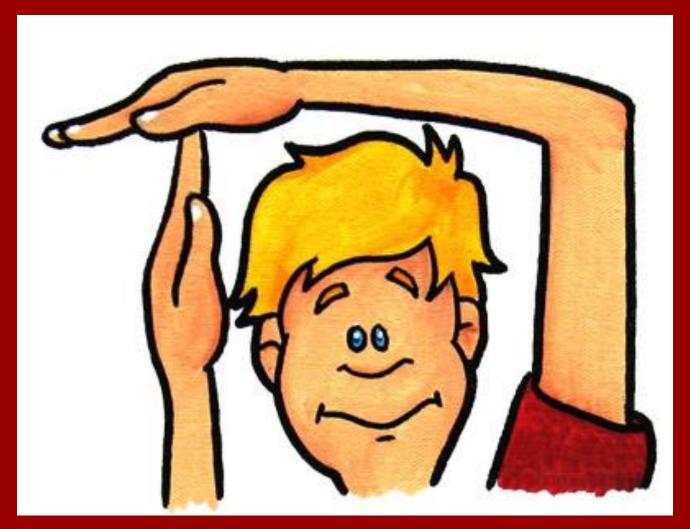
The Living Pump



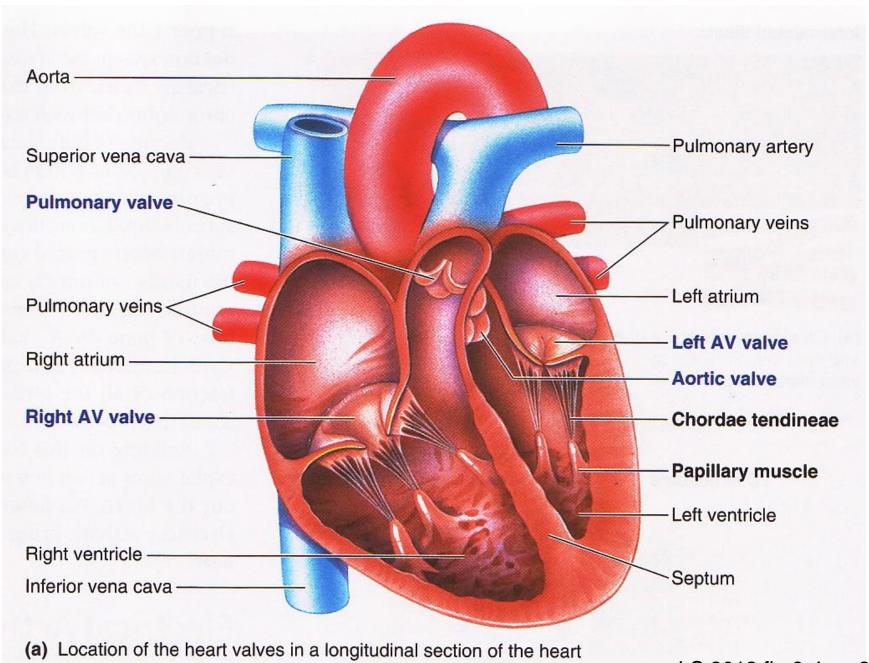




Time-out for Questions!

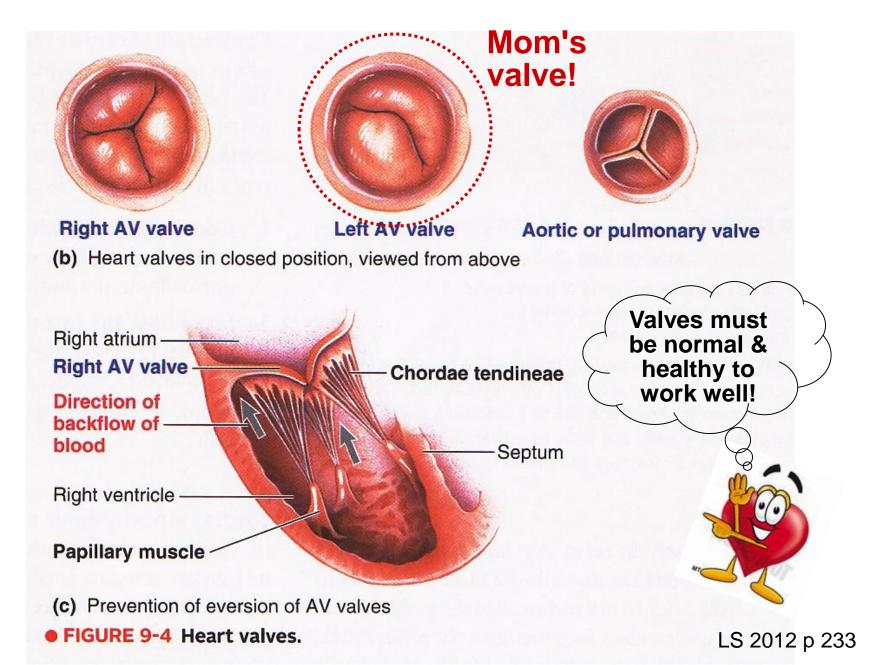


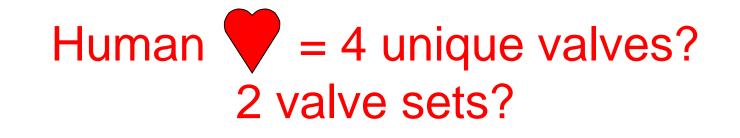
+ Brief Break!

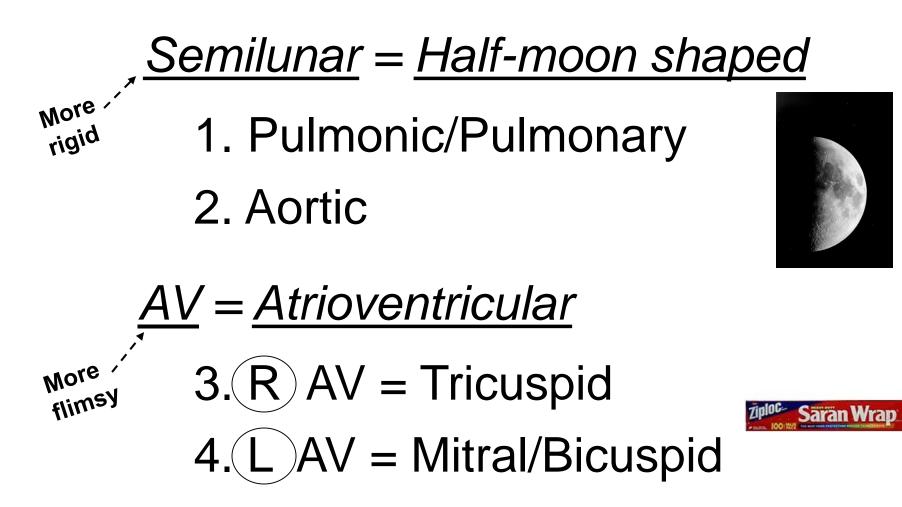


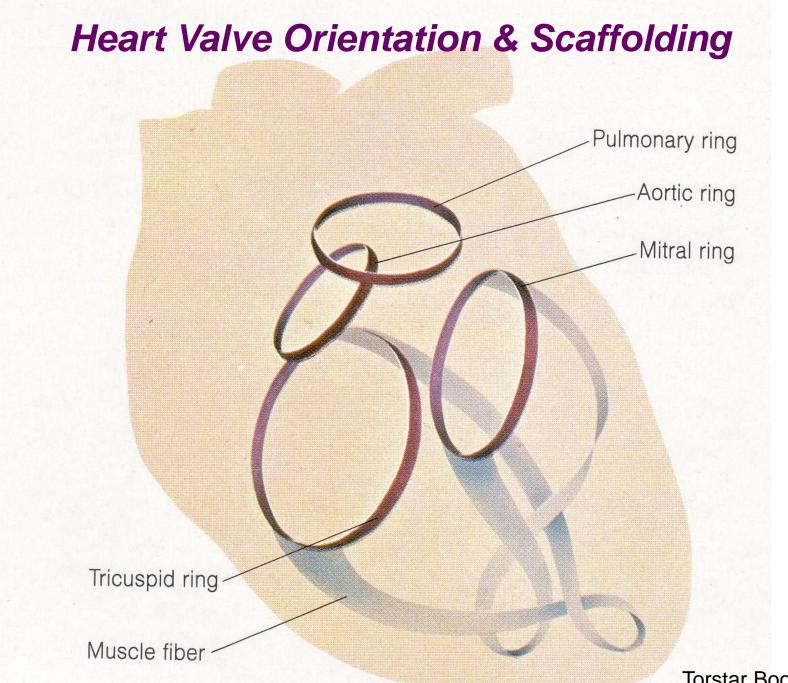
LS 2012 fig 9-4a p 233

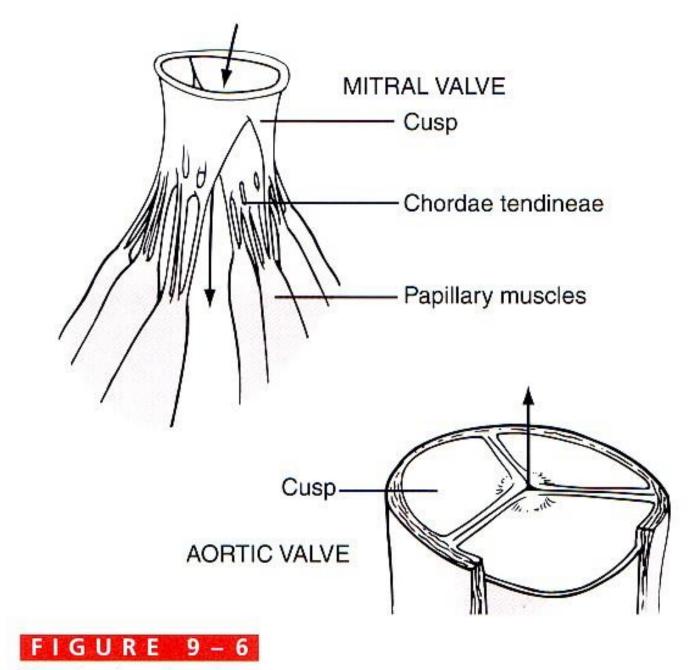
Heart Valves Ensure Unidirectional Blood Flow!

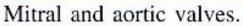




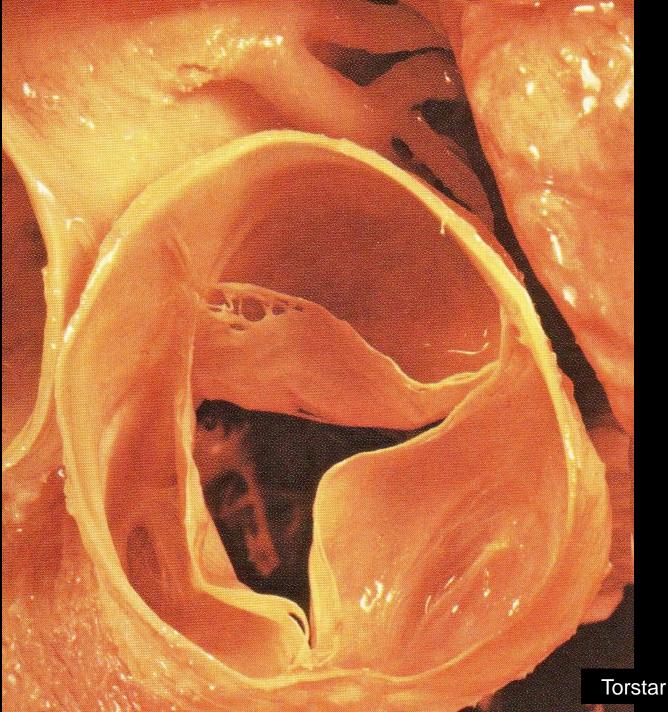


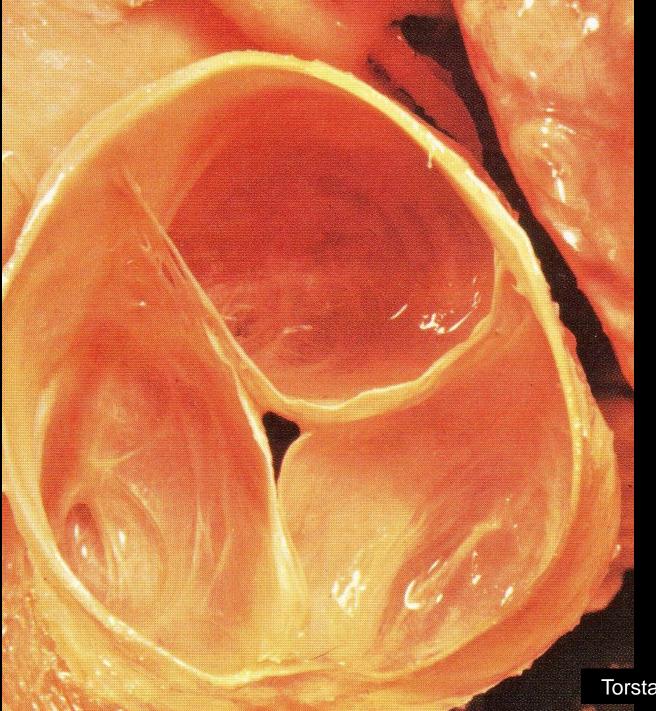


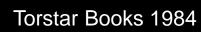


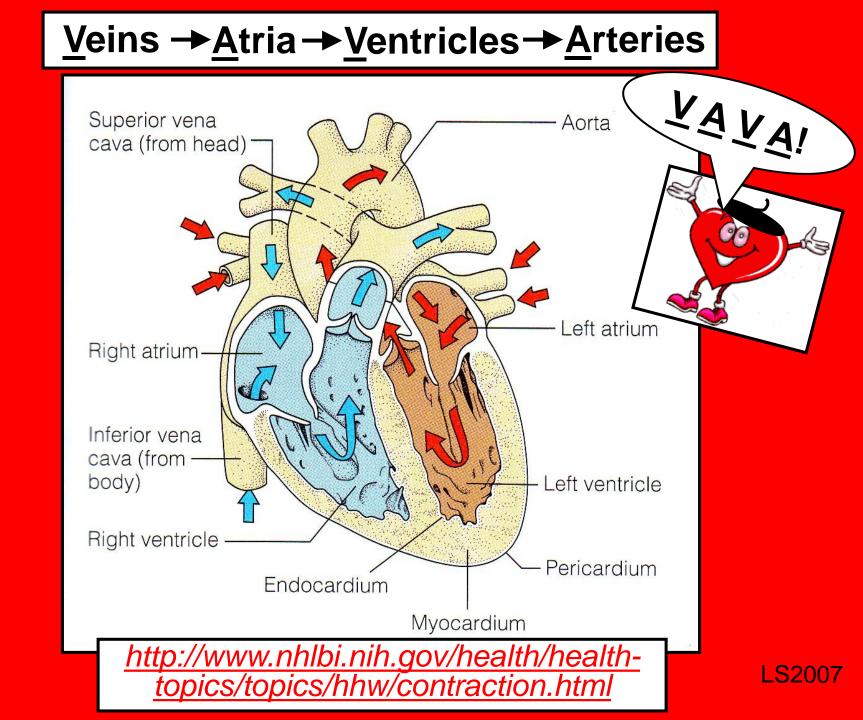


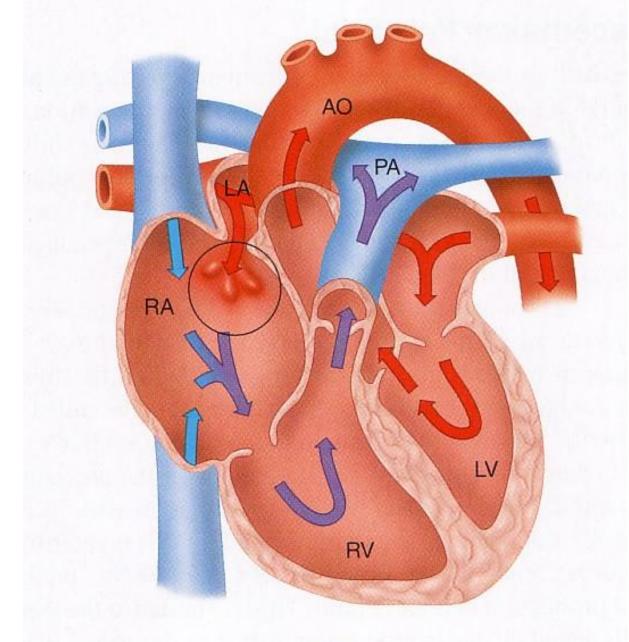
Guyton & Hall





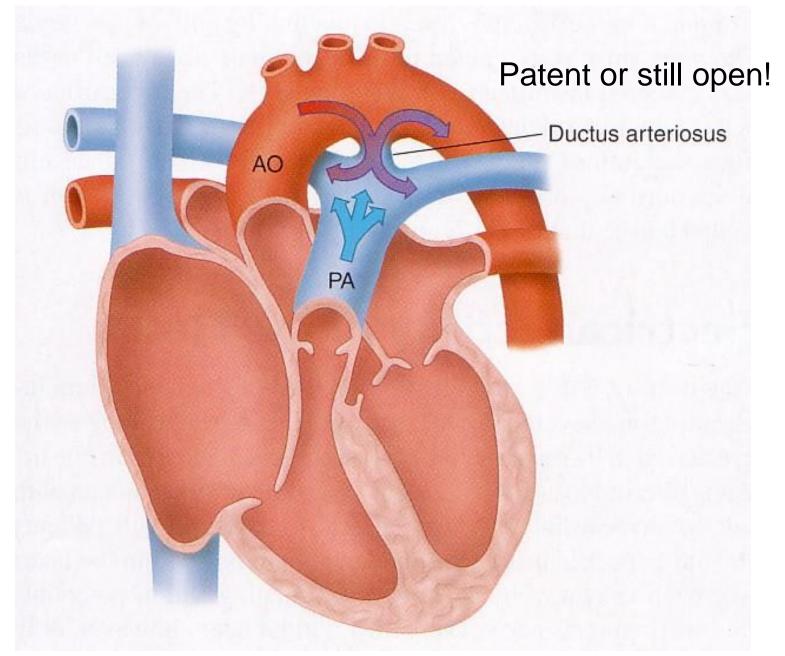






SI Fox 2009 fig 13.16 p 419

Septal defect in atria



SI Fox 2009 fig 13.17 p 420

Class Frequency Distribution Report for BI 121 Midterm U17, Multiple Choice, Part II

Overall				Mean Score: 67.00%	
Grade	Percent Score	Raw Score	Frequency	Percent	
A	90.00 - 100.00	36.00 - 40.00	1	6.67	
В	80.00 - 89.99	32.00 - 35.99	2	13.33	
С	70.00 - 79.99	28.00 - 31.99	4	26.67	
D	60.00 - 69.99	24.00 - 27.99	1	6.67	
F	0.00 - 59.99	0.00 - 23.99	7	46.67	

