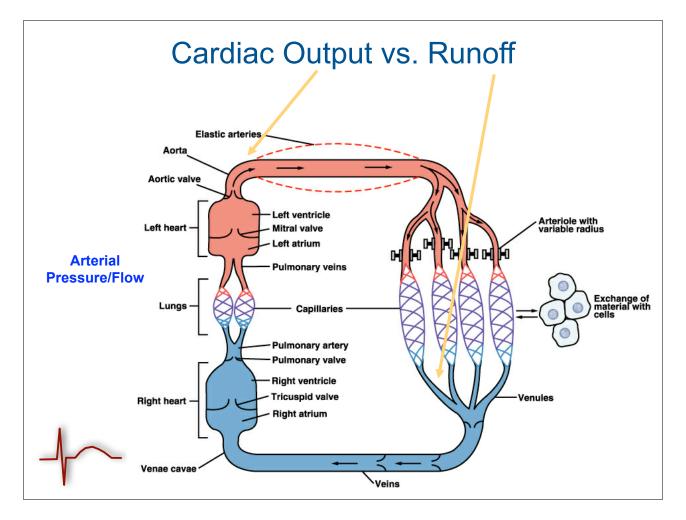
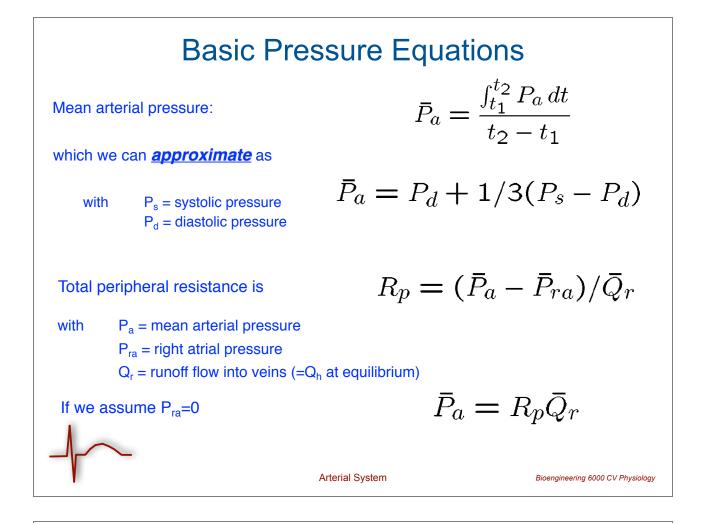


Human Aortic Measurements

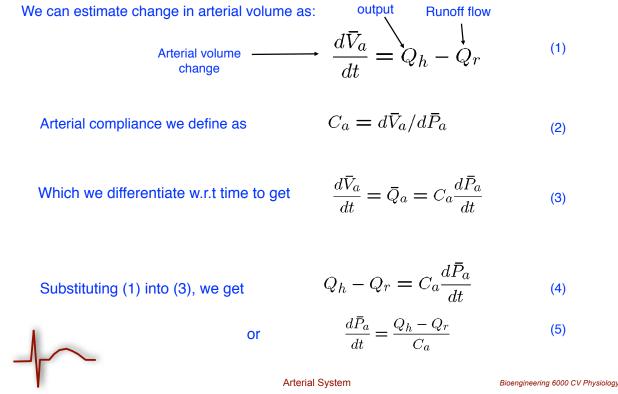
Patient Demographics	No. of Subjects	Average Wall Thickness (mm)		Maximal Wall Thickness (mm)	
		Mean (SE)	p	Mean (SE)	p
Sex			0.028		0.010
Men	98	2.32 (0.06)		3.85 (0.13)	
Women	98	2.11 (0.06)		3.31 (0.13)	
Race			0.061		0.023
Black	99	2.15 (0.05)		3.74 (0.10)	
White	97	2.27 (0.05)		3.42 (0.10)	
Age range (yr)			< 0.001		0.002
45–54	66	2.03 (0.05)		3.33 (0.12)	
55-64	52	2.18 (0.06)		3.61 (0.13)	
65–74	39	2.26 (0.07)		3.56 (0.15)	
74–84	39	2.51 (0.07)		3.98 (0.16)	

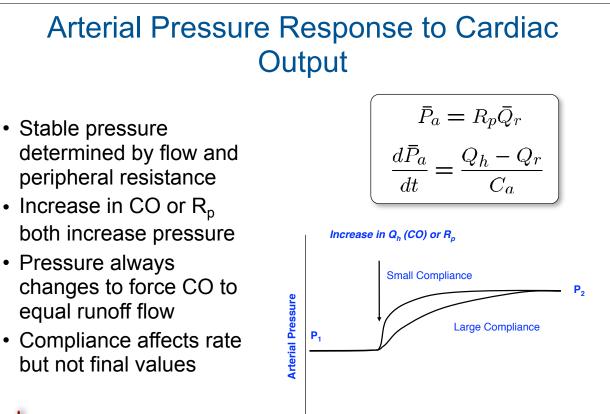
Li et al. AJR 2004;182:593–597 Arterial System Bioengineering 6000 CV Physiology



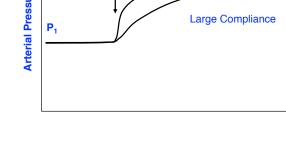


Time Course of Arterial Flow





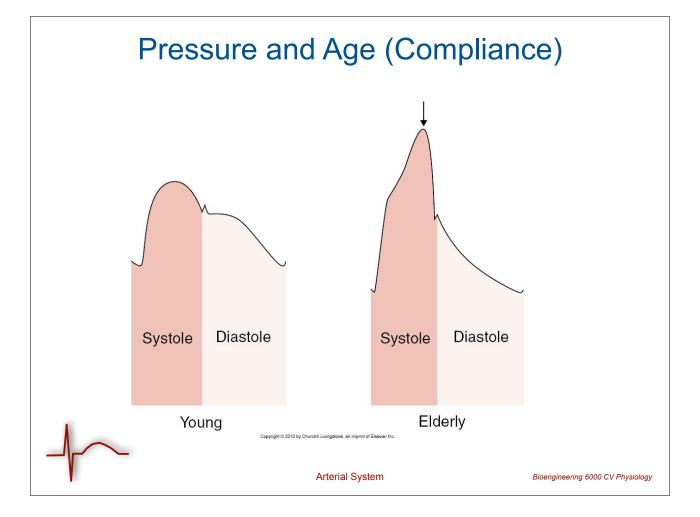


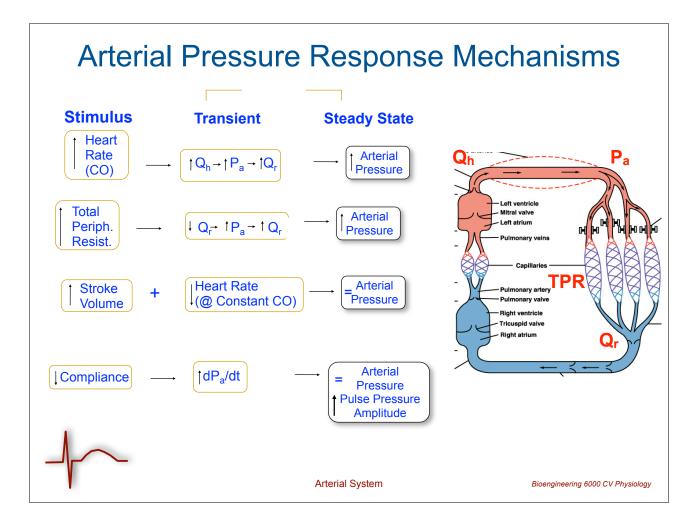


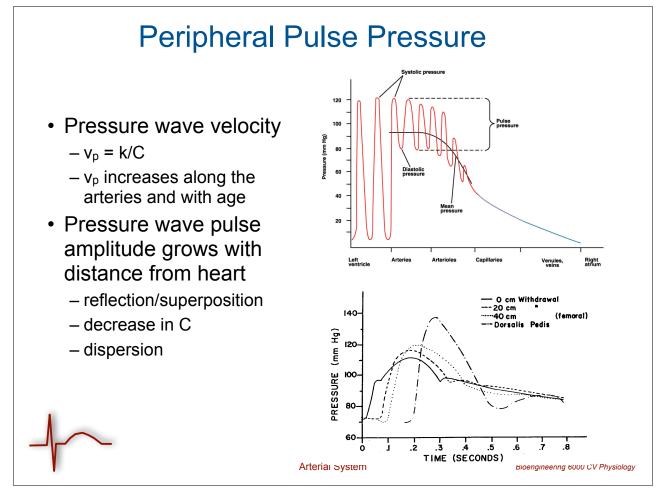
Time

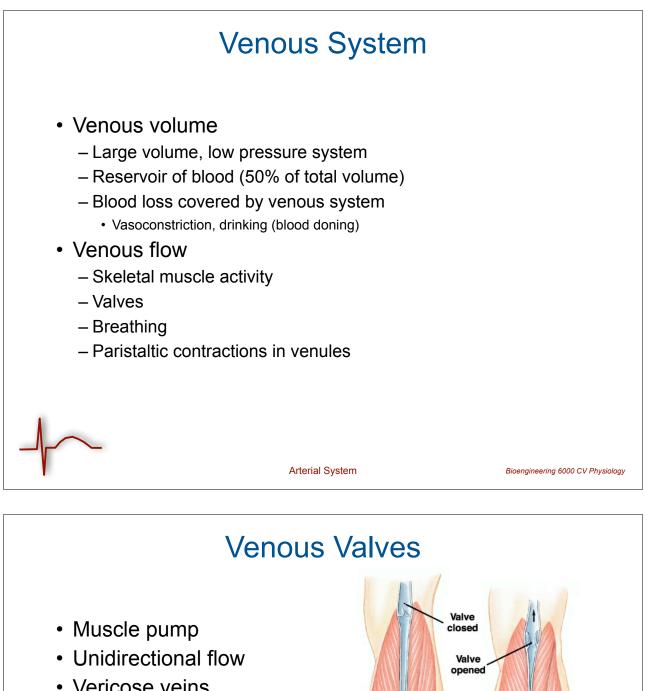
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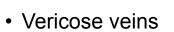
Arterial System

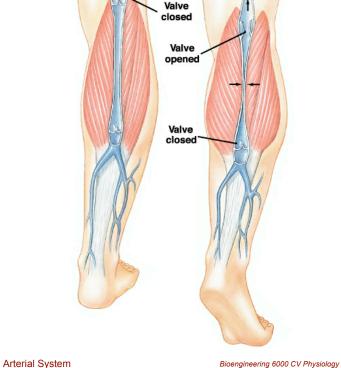




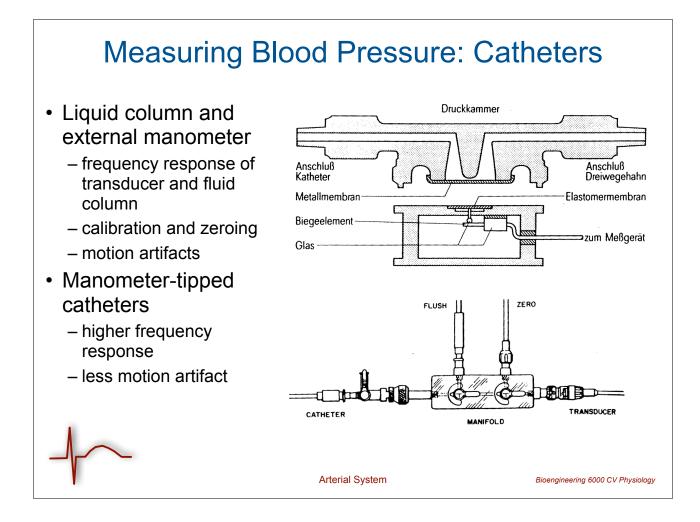






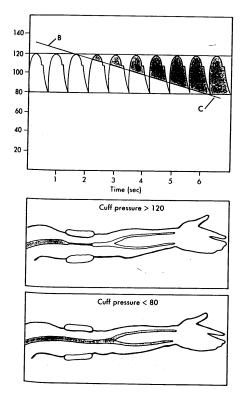


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Auscultatory Blood Pressure Method

- Effect of arm position
- Alternate measurement locations (leg)
- Pressure varies during the day (lowest during sleep)
- Psychological bias in measurements (in subject and operator)





Arterial System

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