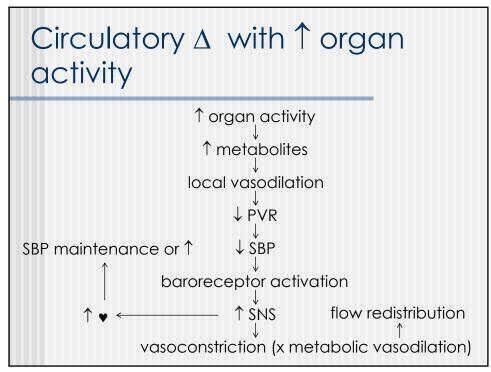
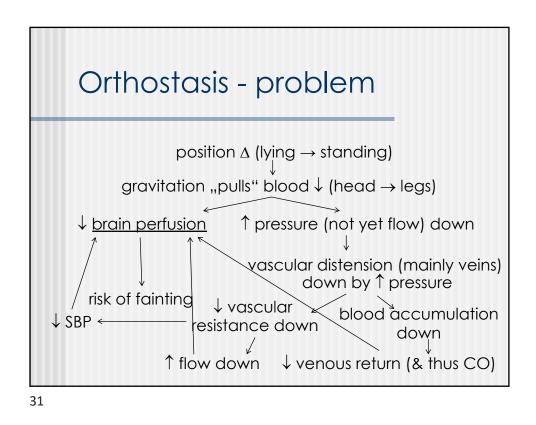


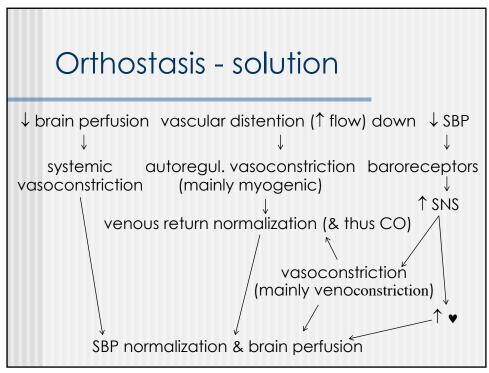


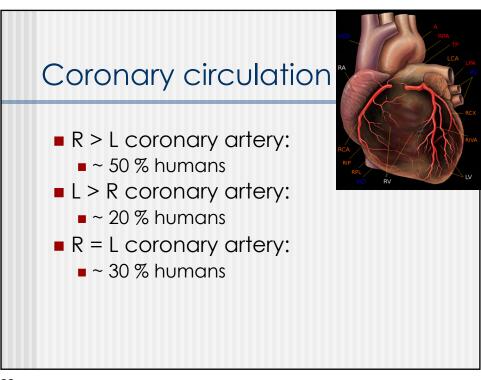
Adrenaline: (importance < NA from SNS)</p>

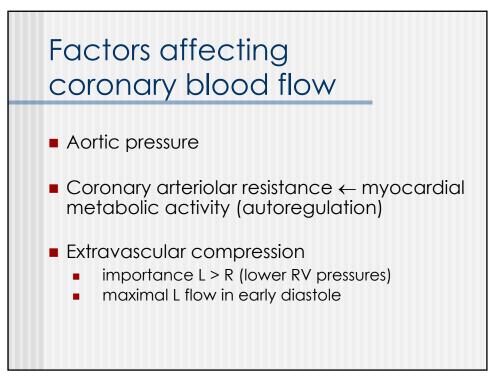
- <u>Skeletal muscles:</u> β vasodilation @ low dose, α vasoconstriction @ high dose
- Skin & other organs: only α vasoconstriction
- Angiotensin II:
 - ACE from A-I, A-I from angiotensinogen by renin (released from kidny in hypotension or ↓ volume)
 - mainly AT₁ receptors
 - AT₂ opposite effects, but little AT₂ in vessels
 - (their activation can 1 during AT₁ inhibition because of feed-back 1 A II - therapeutic significance)

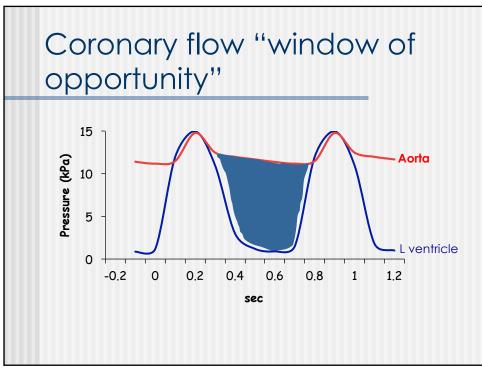


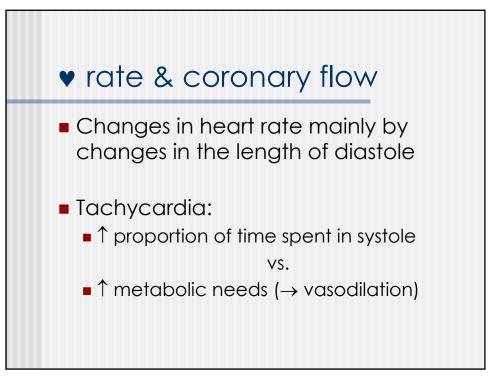


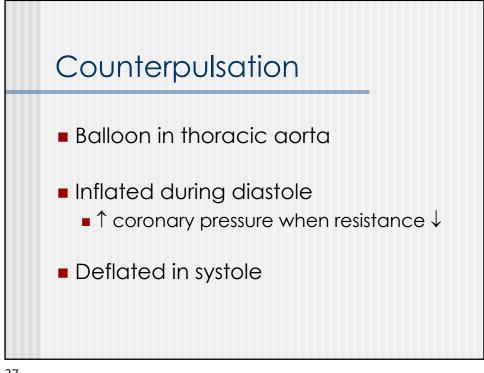


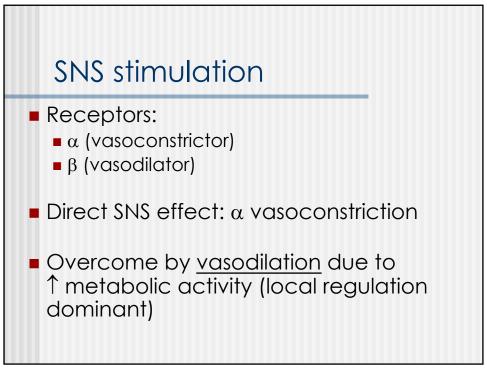


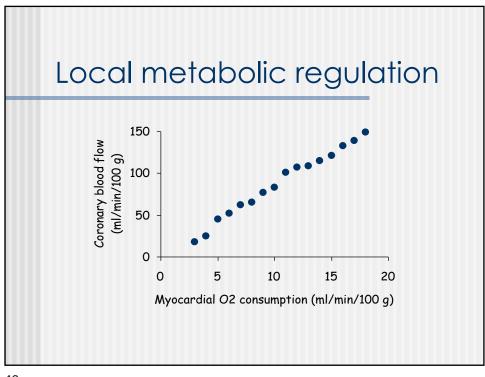




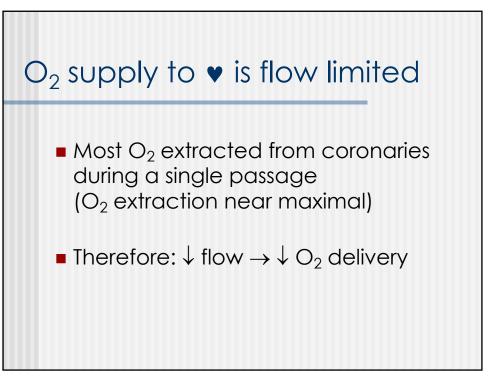


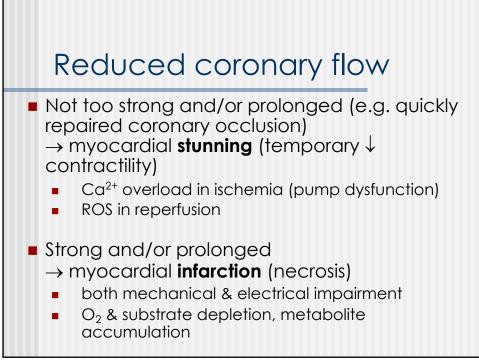


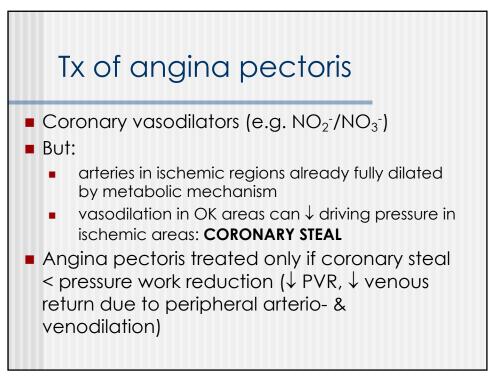


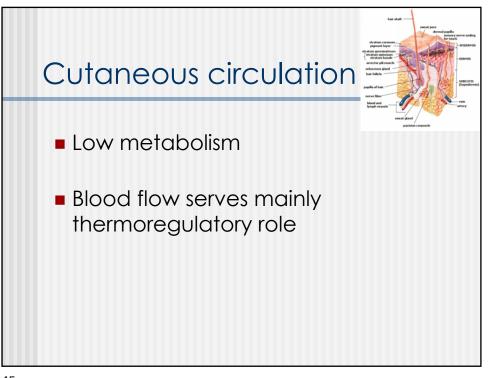


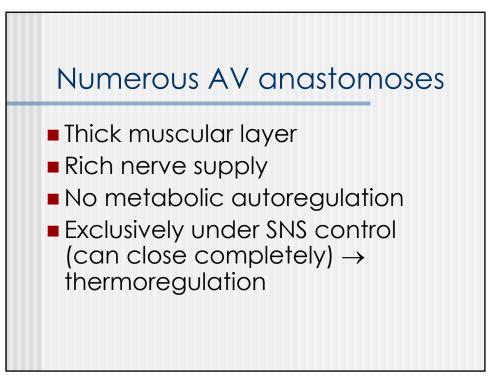


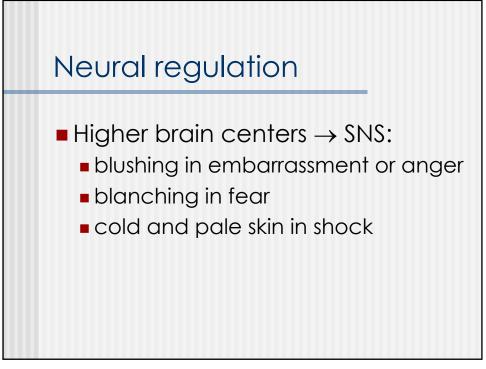


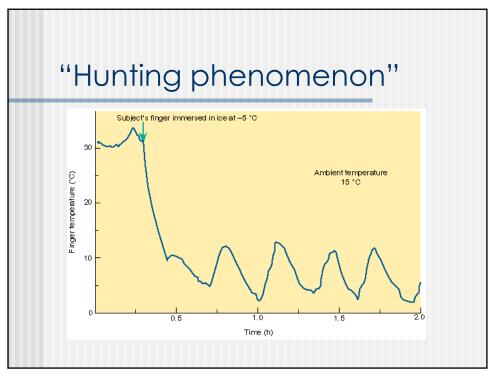


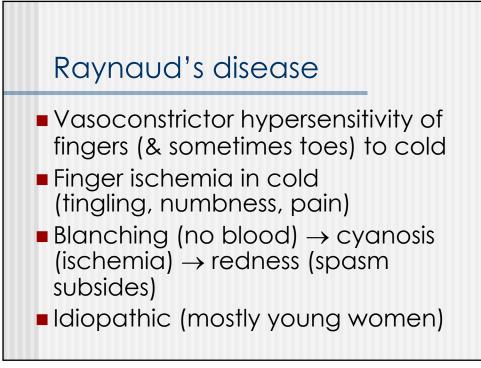


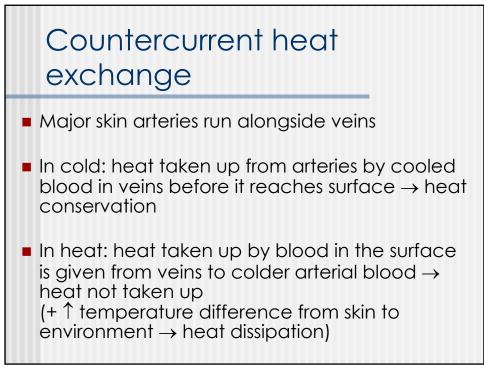


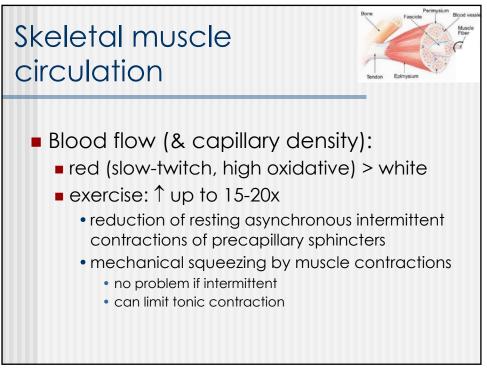


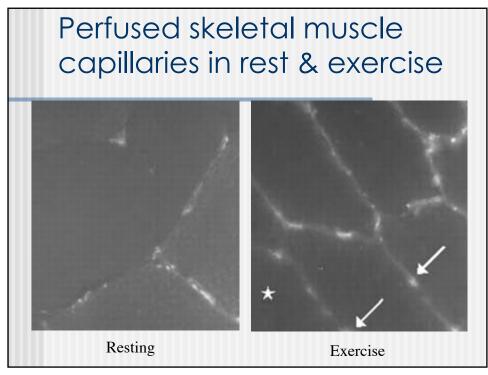


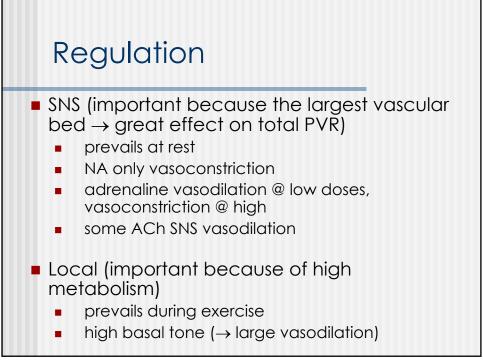


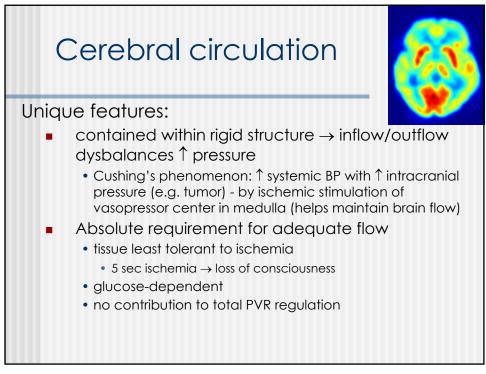






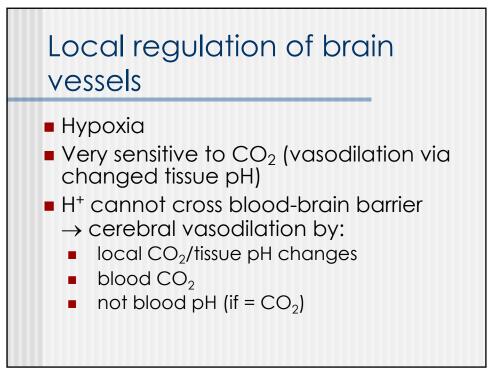


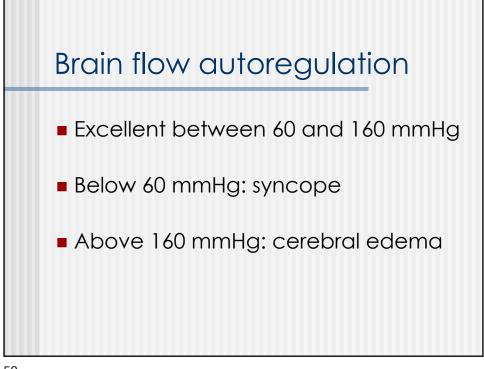


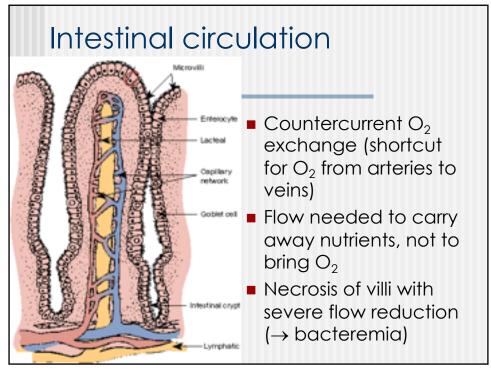


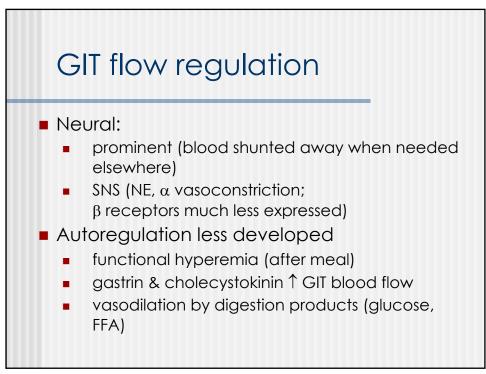
Neural regulation of brain vessels

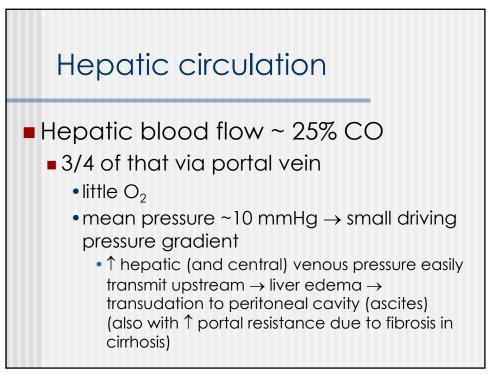
- Minimal importance (local mechanisms predominate)
- SNS (along carotid & vertebral arteries) - weak vasoconstriction
- Parasympathetic fibers from facial nerve - weak vasodilation

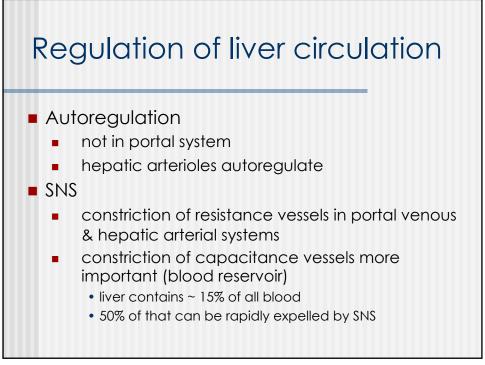


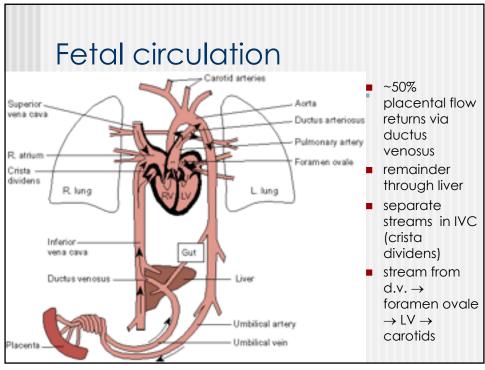














- Low $O_2 \rightarrow$ hypoxic vasoconstriction
- No ventilation → undistended, convoluted vessels
- Shunts ~90% of CO through ductus arteriosus (enters aorta distal to origin of carotid arteries)

