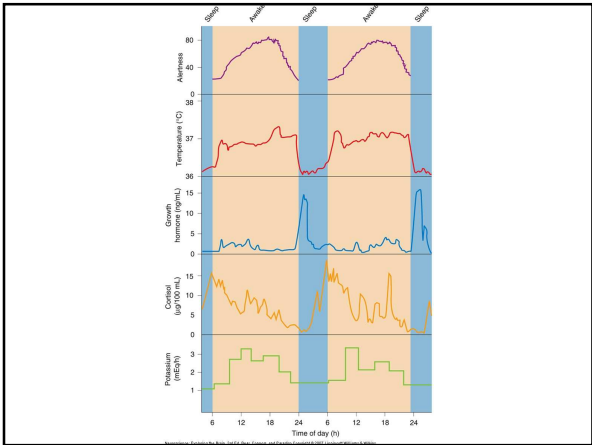
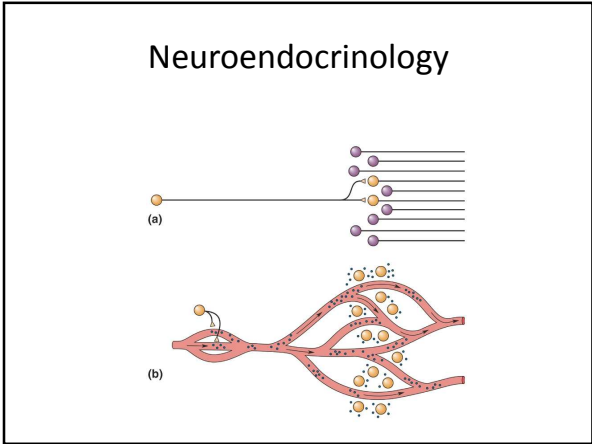
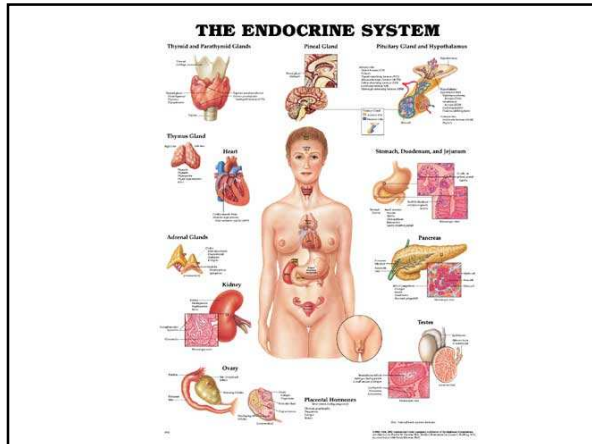


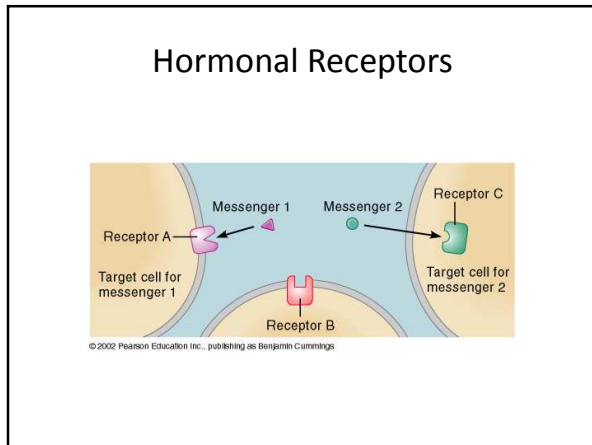
Physiology 67

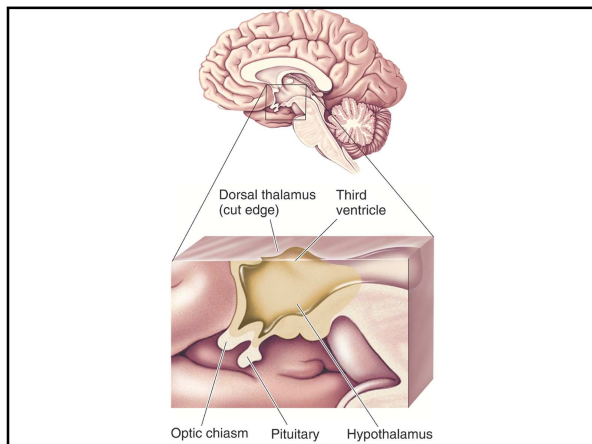
Neuroendocrinology- Stress

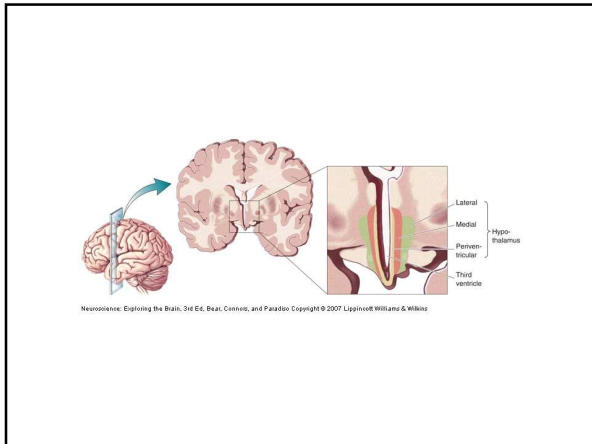


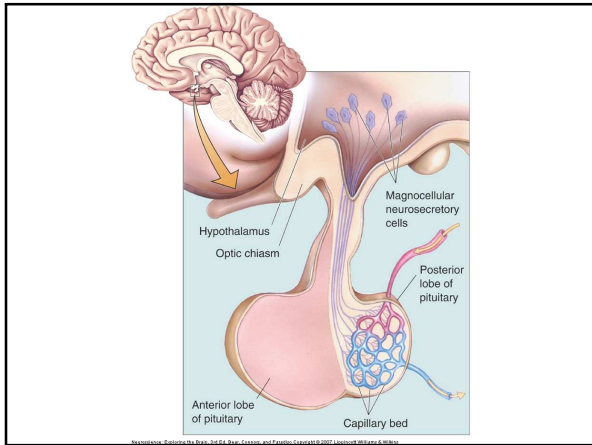


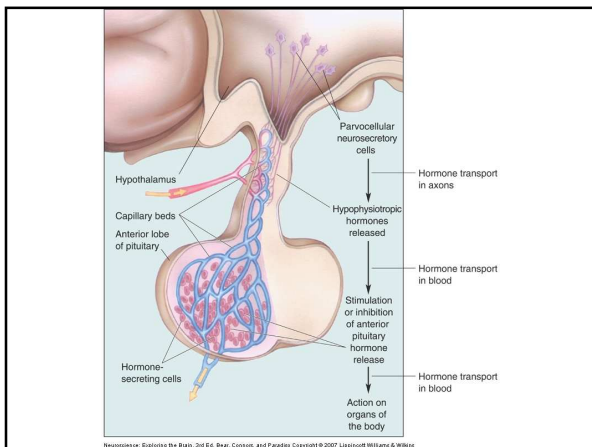






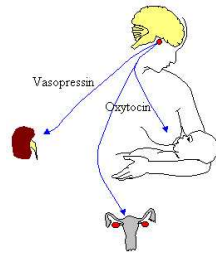






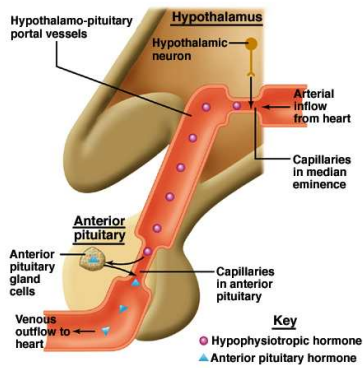
Posterior Pituitary Hormones

- Vasopressin
(aka. Antidiuretic hormone)
- Oxytocin



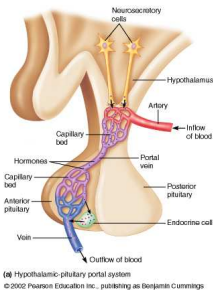
Hormone secretion by the anterior pituitary

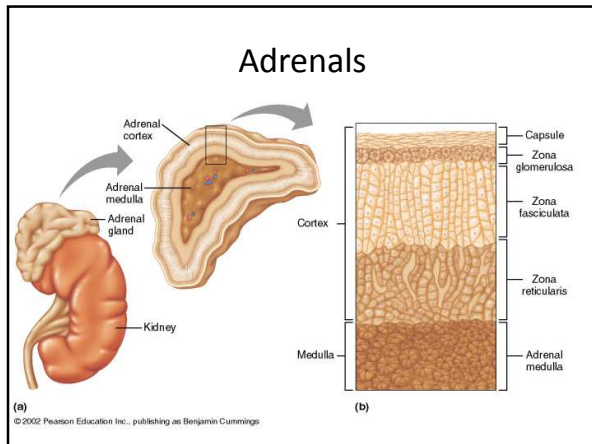
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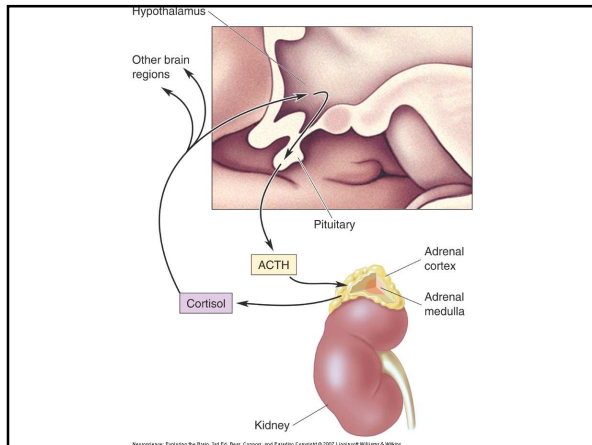


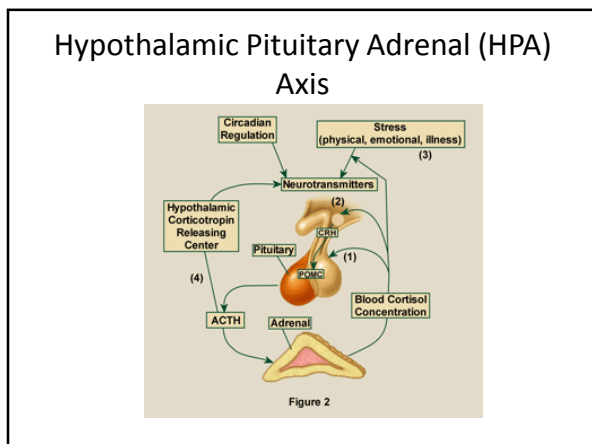
Anterior pituitary hormones regulate

- Adrenals
- Gonads/reproduction
- Thyroid
- Growth









Major Functions of Cortisol

- Carbohydrate mobilization
- Increase Fat metabolism
- Inhibit immune system
- Increased red blood cell production
- CNS memory
- Depression
- Food intake/ anorexia?

Circadian Rhythm in Cortisol

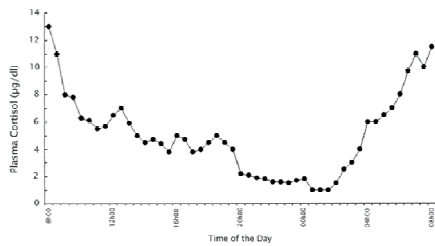
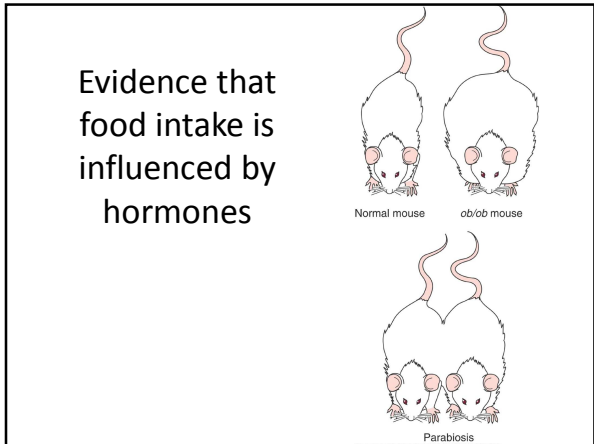


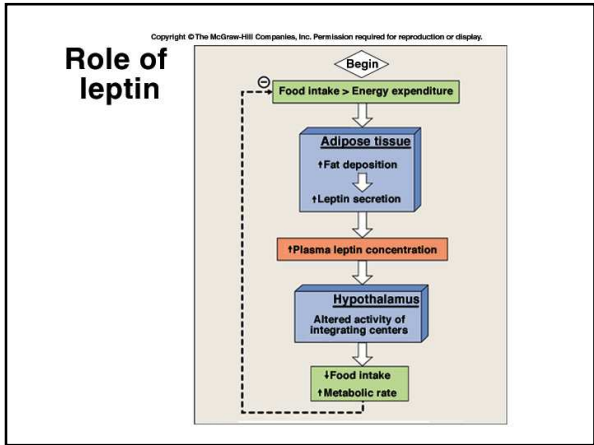
Figure 3 - Typical daily secretory pattern of cortisol in a healthy individual. The curve is based on a representation shown in reference 1.

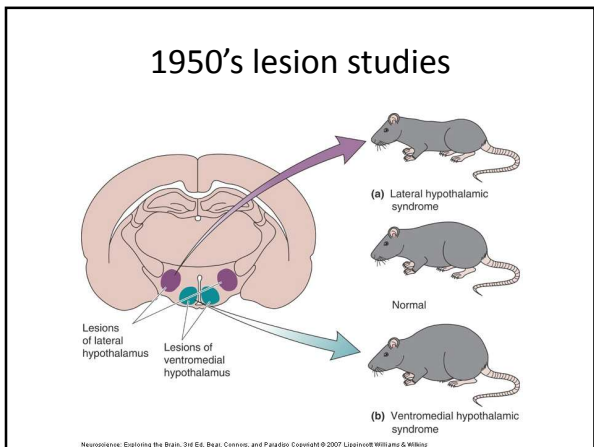
Metabolic Set points

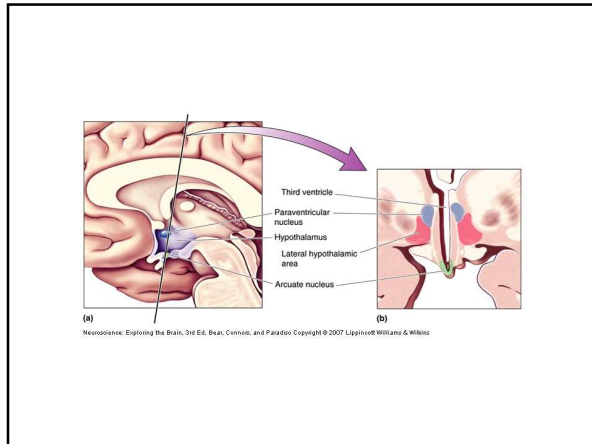


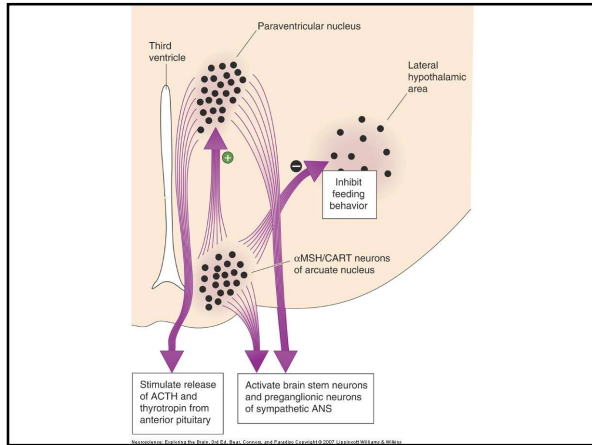
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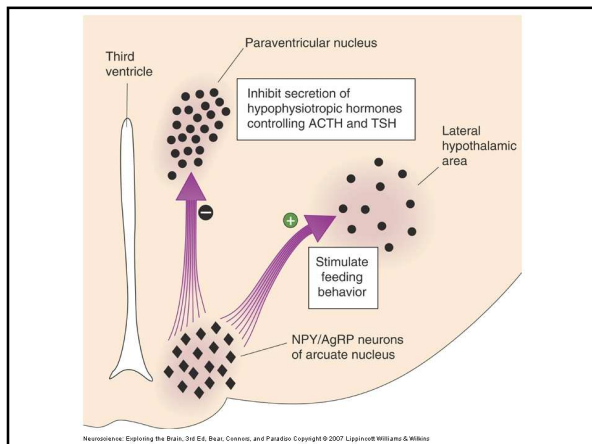




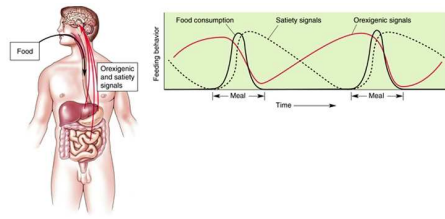








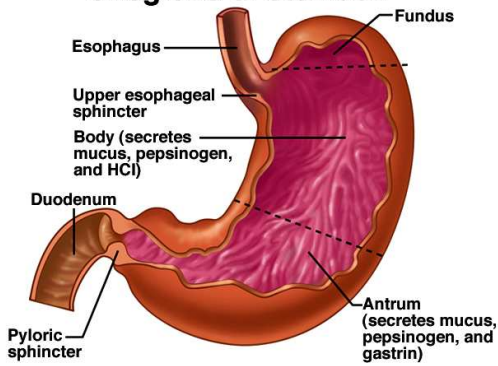
Intermediate control of feeding



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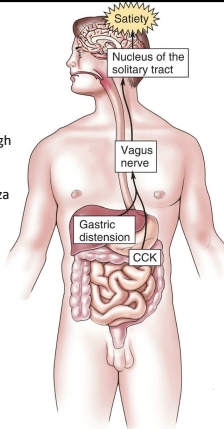
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3 regions of stomach



Stimulates Feeding

- Ghrelin – from non distended stomach
- Taste/ Smell – through NTS
- Mood – Serotonin?
- Conditioning/socialization



Inhibits Feeding

- Insulin
- CCK
- Temperature
- Stomach stretch
- Blood Glucose
- Leptin
- Conditioning
- Many other gut peptides

