

...This Thursday more fun & data about me! Heck yeah!!

- I. Announcements To make Lab 5 educational, fun & safe for all, please read pp 5-1 thru 5-6 in LM twice before Thursday! Remaining exams & notebooks returned > lecture. Key posted in glass box in Huestis near 120 HUE. Estimate grade? Q?
- II. Blood Chemistry Review LS ch 11 + 17, DC Module 5, Q?
- III. Endocrinology Overview LS ch 17, DC Module 13, SI Fox+
 - A. Vignette: Cushing's syndrome LS fig 17-20 p 521-2
 - B. Endocrine system DC p 103 fig 13-1, LS fig 17-1, tab 17-1
 - C. What's an endocrine? + classes ~ LS pp 495 6
 - D. Hypothalamus (Master) Pituitary (subcontroller) DC pp 104-6 + LS pp 499-506
 - E. Posterior pituitary + hormones DC p 108, LS fig 17-4 p 502
 - F. Anterior pituitary + hormones DC pp 105-7, LS pp 502-6
 - G. GH: Body builder's dream? Fountain of youth? LS pp 506-11
 - H. Peripheral endocrine organs DC pp 109-13, LS pp 513-36
 - 1. Pancreas (insulin glucagon see-saw!) 2. Thyroid 3. Adrenals





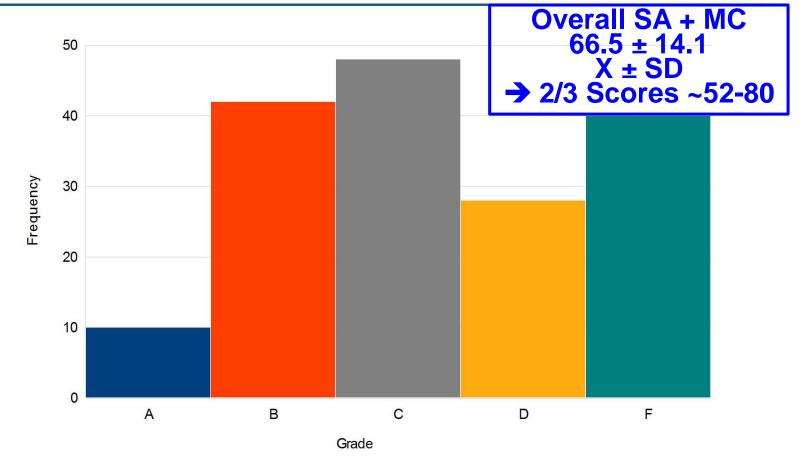
GREAT!
GREAT!
GREAT!
GREAT!
GREAT!

ON P 20-251.

Class Frequency Distribution Report for BI 121 Midterm F17, Multiple Choice, Part II

Overall	Mean Score: 70.34%
---------	--------------------

Grade	Percent Score	Raw Score	Frequency	Percent
A	90.00 - 100.00	36.00 - 40.00	10	5.95
В	80.00 - 89.99	32.00 - 35.99	42	25.00
С	70.00 - 79.99	28.00 - 31.99	48	28.57
D	60.00 - 69.99	24.00 - 27.99	28	16.67
F	0.00 - 59.99	0.00 - 23.99	40	23.81



IS O'U of O!

Students who succeed are usually those who:

- (1) Attend class regularly (0)
- (2) Ask questions
- (3) Come to office hours & problem-solving sessions
- (4) Study outside class both alone & in study groups
- (5) **Seek** to understand methods & overarching principles/concepts rather than specific answers
- (6) **Teach** or tutor others &
- (7) **Discuss** concepts informally with fellow students.

Science Teaching Reconsidered, National Academy Press, 1997.

Q? What do I need on the final, if I want to get ...?

A? You can actually calculate given assumptions...

e.g., 62 for Exam I & desire $\geq B$ - (assume \geq 80)

Assume 100% for lecture (20% of grade) + lab attendance & participation (20% of grade!)

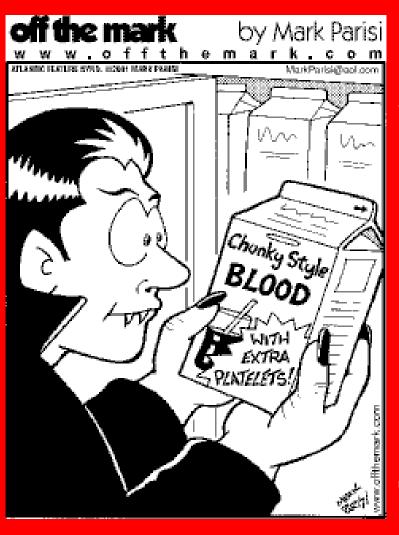
Hope for? Exam I Lecture Lab
$$X = [80 \div ((0.3 \times 62) + (0.2 \times 100) + (0.2 \times 100))]/0.3$$

$$X = [80 - [(18.6) + (20) + (20)]]/0.3$$

$$X = [21.4]/0.3 = 71.3$$
 Need this on Exam II for B- for course!



...Fortunately, the lab buffers the grade!



Today & next time we'll cover blood chemistry to ensure for adequate lab prep adequate lab preptime & incubation.

No food, drink or gum in lab! Thanks sincerely!







PREPARATION



WASH & DRY



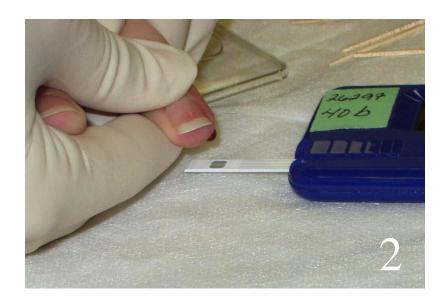
ALCOHOL



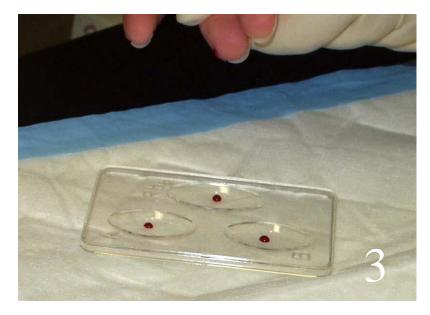




OBTAIN μSAMPLE

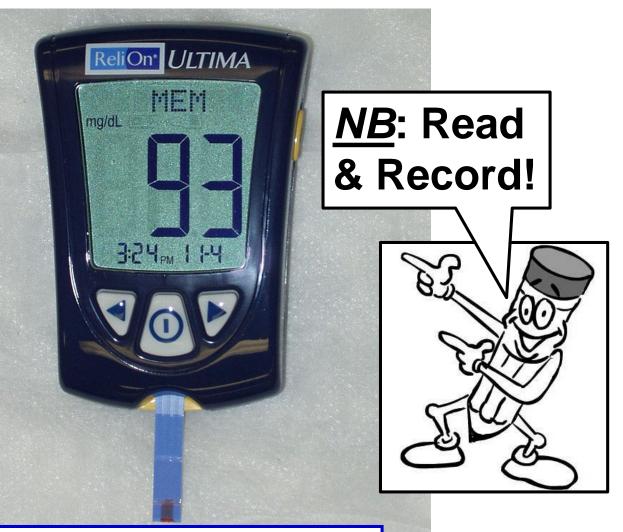


BLOOD GLUCOSE



BLOOD TYPING

<u>Glucose</u>: Sugar in Blood

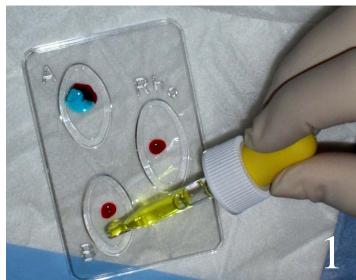


Normal: 70-99

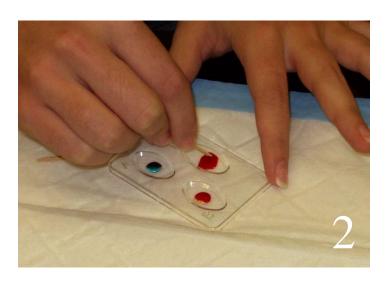
Pre-Diabetes: 100-125

Diabetes: ≥ 126 mg/dL





ADD ANTISERA



MIX W/TOOTHPICKS



READ & RECORD!!





FOLD DIAPER

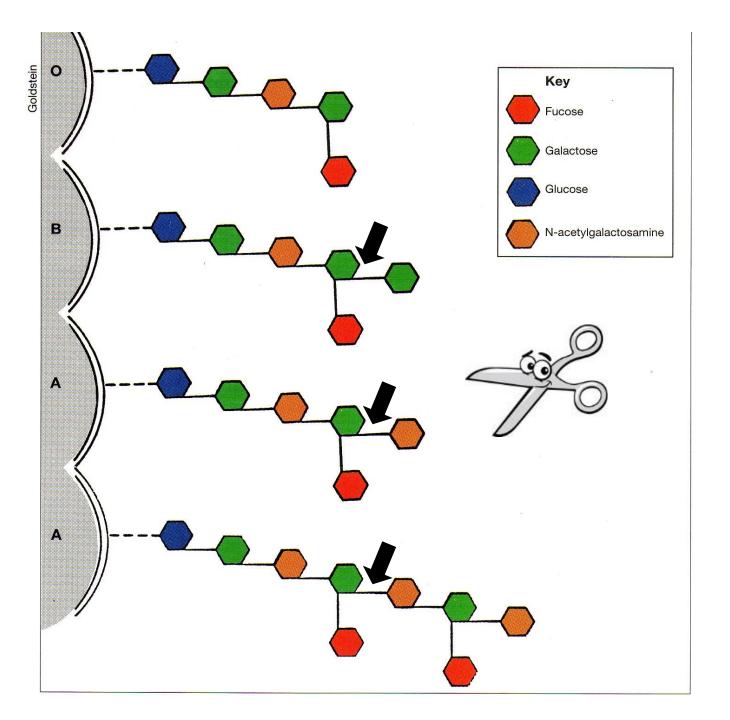


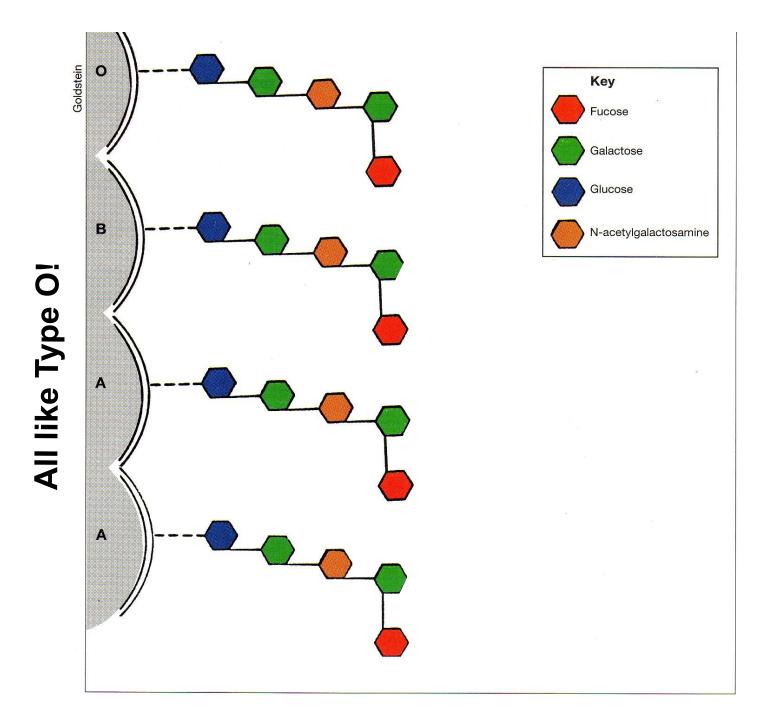
BLOOD PRODUCTS



REWASH!!



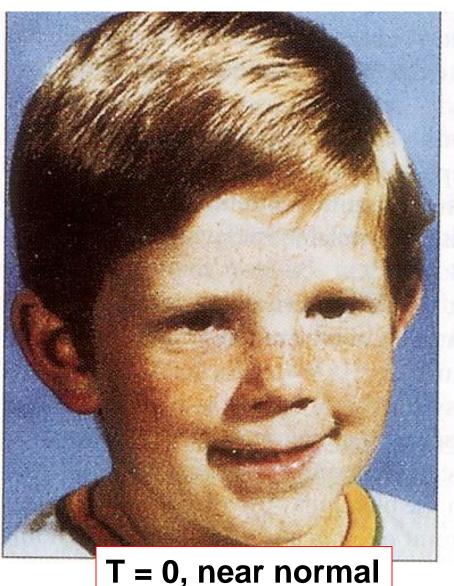








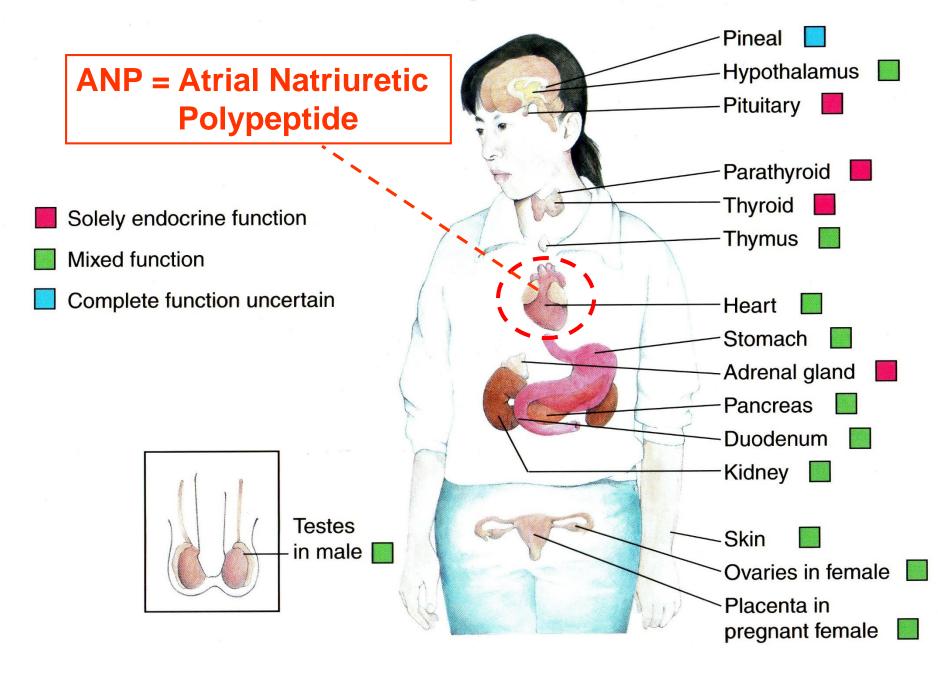
Cushing's Syndrome = Hypersecretion of Cortisol: Hypothalamic (CRH), Pituitary (ACTH), or Adrenal (Cortisol)



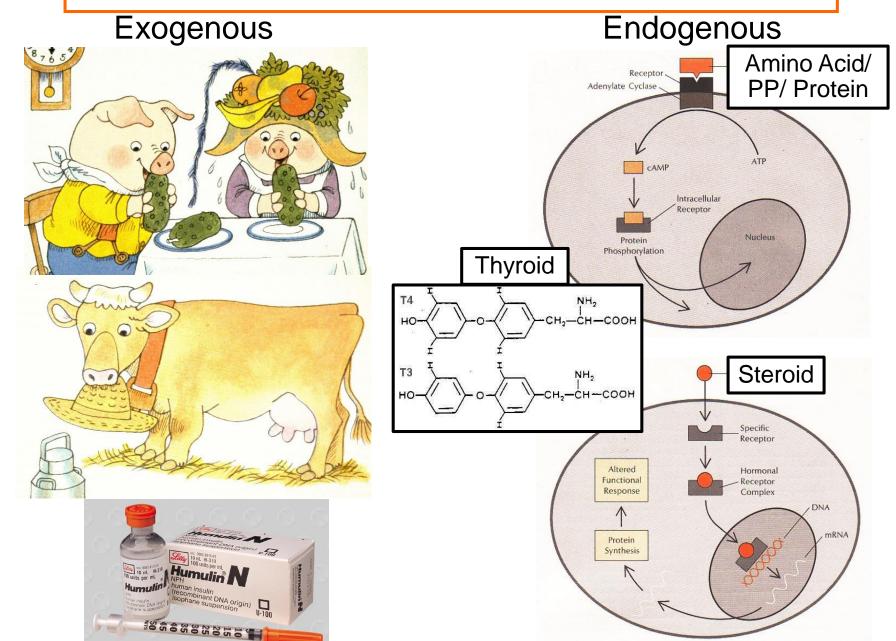




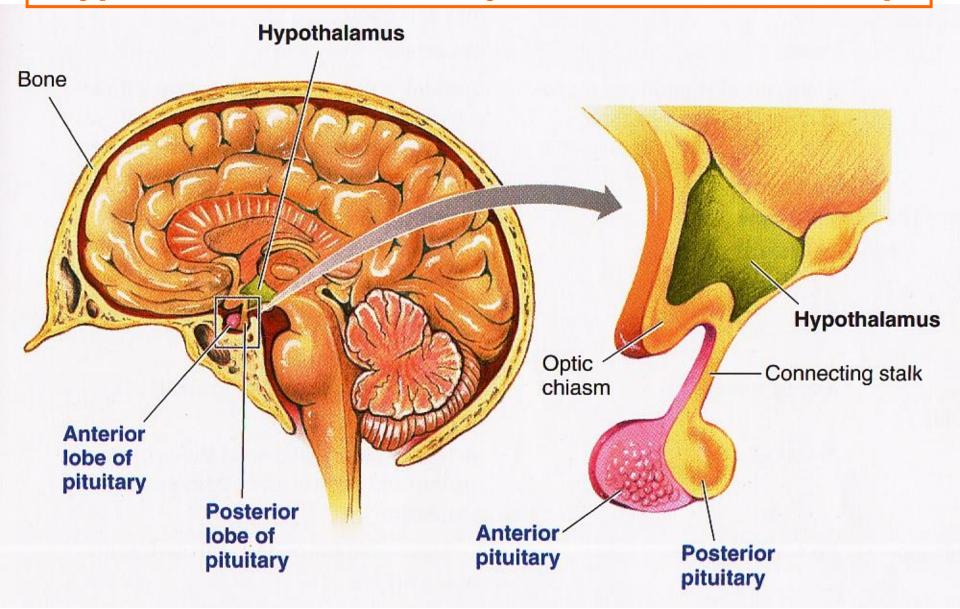
Endocrine System

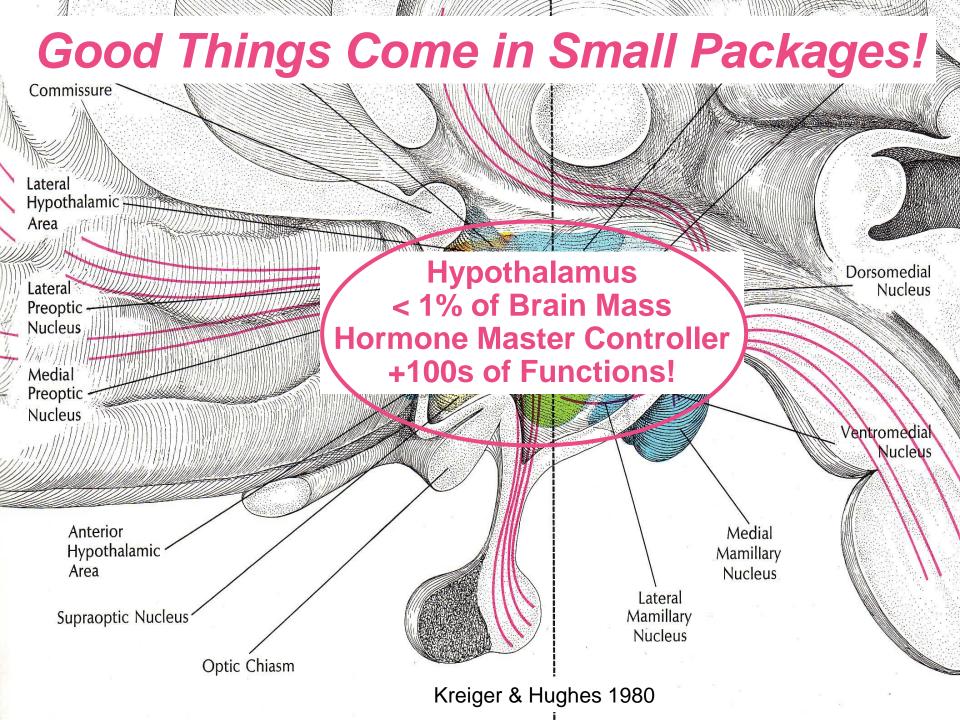


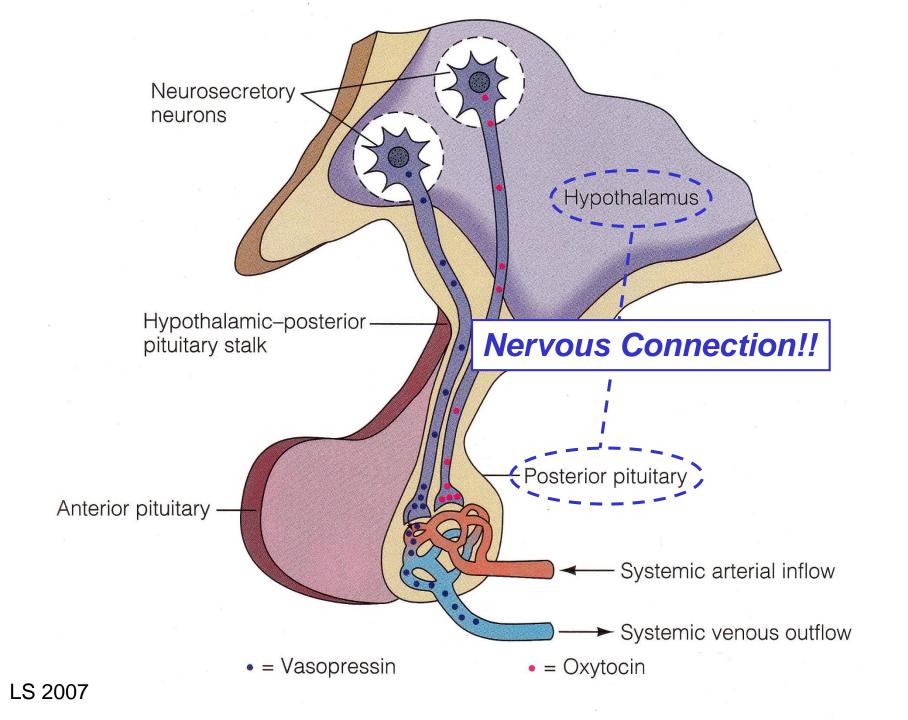
Hormone/Endocrine Classifications?



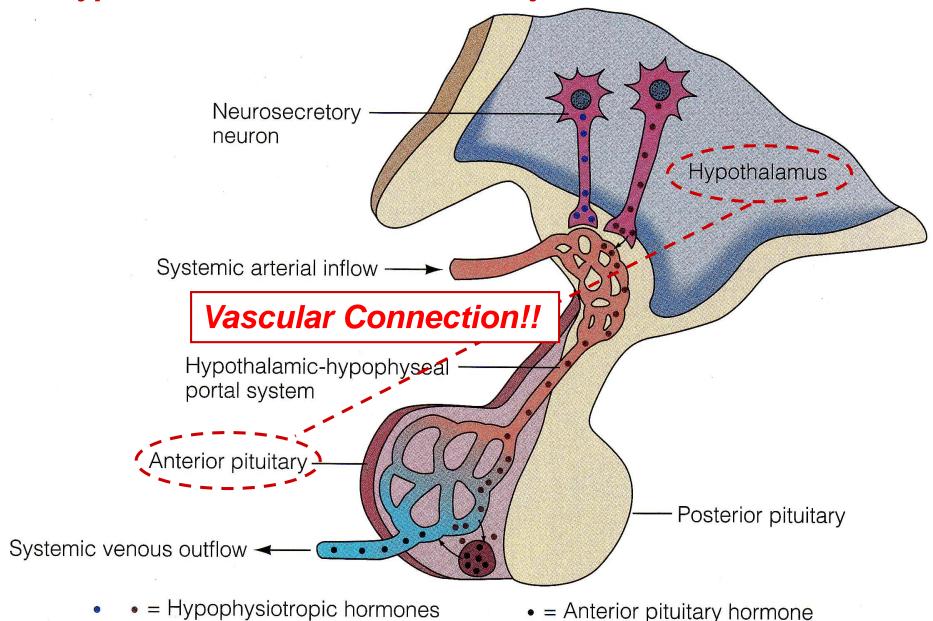
Hypothalamus & Pituitary: Intimate Relationship



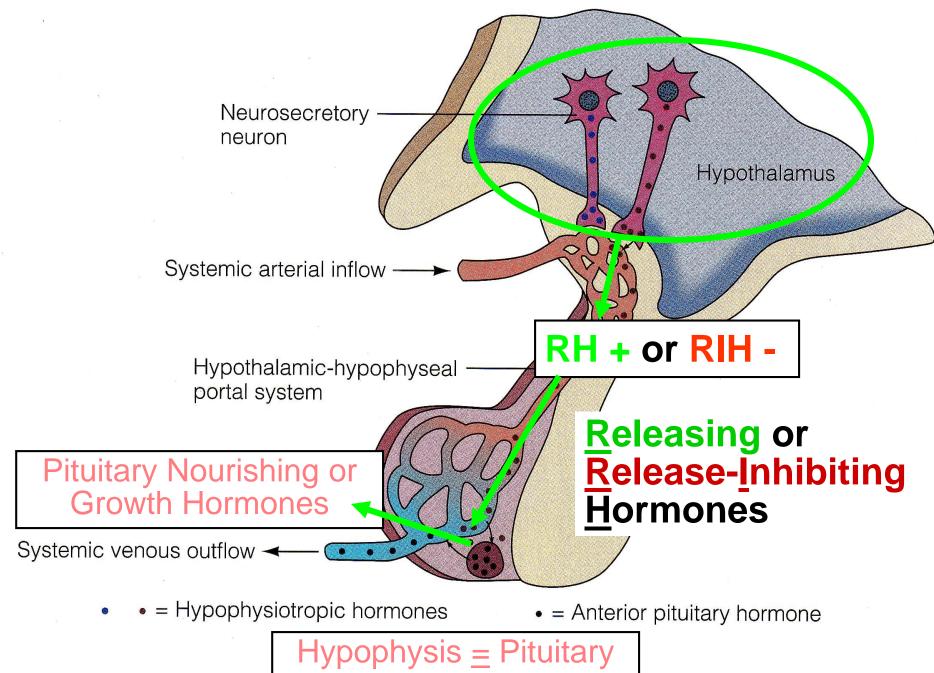




Hypothalamus-Anterior Pituitary Vascular Connection!



LS 2007



LS 2007

Capillary-Venule-Capillary Intimate Circulation

