Histology Slides for the Endocrine System

- Slides are presented in order of magnification
- As you view the following slides, make sure you can accomplish these goals:
  1. Can you identify the vessels and tissue layers observable on the slides?
  2. Can you identify the specific structures or layers indicated by the numbered arrows or brackets?
- At the end of a sequence, you will find the answers to the above for each vessel and layer

Bio & 242 Unit 4
Labs 1 and 3
Pituitary Gland or Hypophysis

Slide #1
- Anterior Pituitary Gland or Adenohypophysis
- Posterior Pituitary Gland or Neurohypophysis

Slide #2
3. Acidophils
4. Basophils
5. Chromophobes

Slide #3
6. Axons of Hypothalamic neurosecretory cells
7. Pituicytes or supportive cells
Thyroid and Parathyroid Glands

Slides #5, #6, #7, #8, and #9
8. Thyroid Gland
9. Parathyroid Glands (principal cells)
10. Thyroid follicle
11. Follicular Cells
12. Parafollicular Cells
Adrenal Gland

Slide # 11
13. Adrenal Cortex
14. Adrenal Medulla
15. Zona glomerulosa
16. Zona fasciculata
17. Zona Reticularis
Pancreas

18. Islet of Langerhans
Testes

Slide # 16
19. Seminiferous tubules

Slide # 17
20. Cells of Leydig or interstitial cells
21. Spermatogonium (2n stem cells)
22. Primary spermatocyte
23. Secondary spermatocytes
24. Late spermatids
Ovary

Slide #19, #20, and #21
25. Primordial follicles containing primary oocytes
26. Primary oocyte in a Graafian follicle
27. Antrum of the follicle
28. Follicular or granulosa cells
29. Corpus Luteum
30. Primary oocyte undergoing meiosis I (note two bands of chromosomes)
31. Zona pellucida
32. Old follicular antrium