

## Study Guide for the Endocrine System

The “Hormone Hall of Fame” and associated exercises (from lab) are all fair game for the lecture exam.

**Overview of the Endocrine System p. 605 / 595**

**Mechanisms of Hormone Action** (OYO from handout)

**Generic effects of Hormones** (OYO from handout)

**Target Cell Specificity** (OYO from handout)

**Magnitude of Response**

**Up Regulation and Down Regulation** (OYO from handout)

**Control of Hormone Release**

**Specific Hormones and what they control:**

**Control of ECF osmolality and volume by ADH (antidiuretic H)**

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**Diabetes Insipidus**

**Effect of alcohol**

**Control of metabolism by TH (thyroid H)**

**Control of ECF Ca<sup>++</sup> by PTH (parathyroid H)**

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**Control of ECF Na<sup>+</sup>, K<sup>+</sup>, and blood pressure by aldosterone**

**Control of the “Fight or Flight” response by Epinephrine and NE**

**Control of blood sugar by cortisol**

**The Stress Response**

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**Control of blood sugar by insulin, and glucagon**

**Hypoglycemia vs. Hyperglycemia**

**Diabetes Mellitus**

**Type I – IDDM**

**Ketoacidosis**

**Type II – NIDDM**

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**Gestational Diabetes - GDM**

**Diabetes “What Ifs”...**

**HB A1c as indicator of glucose levels**

**OYO: Polyuria, Polydipsia, Polyphagia**

**Diabetes Insipidus**

**Influence of Melatonin on sleep / wake cycles and S.A.D.**

