

# Endocrine System

## Pancreas

**Pathophysiology:** an organ in the body containing alpha and beta cells that produce both endocrine and exocrine function

- **Alpha cells:** secrete glucagon
- **Beta cells:** secrete insulin
- **Endocrine function:** hormones assist body with metabolism
- **Exocrine function:** secretion of enzymes to help assist with food digestion



**Pathophysiology:**

- DM 1: there is insufficient insulin
- DM 2: there is insulin resistance

**Causes:**

- DM 1
  - Past viral infection
  - Genetic predisposition
- DM 2
  - Poor lifestyle choices

## Polyuria & Polydipsia

- The blood is thick, making it hard for the heart to supply blood and O<sub>2</sub> to the body. The body tries to thin the blood by pulling excess H<sub>2</sub>O, causing an increase in urine and thirst.



## Diabetic Sick Day Rules

- Monitor blood glucose every 4 hours
- Test urine for ketones (>240 mg/dL)
- Continue to take medications unless a provider says otherwise
- Increase fluid intake to prevent dehydration
- Eat meals at regular times

## Risk Factors

- Hypertension (damages the blood vessels)

## Diabetes

**Signs & Symptoms:**

- Increased urine
- Increased hunger
- Increased thirst
- Increased fatigue
- Blurred vision (early onset) that can lead to chronic complications
- Pins/needles feeling in the feet
- Unexplained weight loss (DM1)

## Prevention

- Glucose control
- Diet
- Exercise
- Medications
- Urine testing for ketones

**REFER TO DM1 & DM2 CARE PLAN FOR DETAILS**

## Why is it important?

- Poor diabetic control can lead to heart and vessel damage, kidney failure, and nerve damage.

**CALL DOCTOR IF:**

- Persistent N/V/D
- Moderate to high ketones
- Blood sugar >250 and not responding to insulin
- Illness longer than 2 days
- Fever 101.5 or higher for more than 24 hours

# Faculty Scf Edu Study Guide Endocrine System

**Jessica J Manson**



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**Marquis International Who's who in Optical Science and Engineering** ,1985      **Books in Print** ,1961

**Government Reports Announcements & Index** ,1992-11      **Scientific and Technical Books in Print** ,1972

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Endocrine System analysis and regulation is key to provided the best environment for a healthy body **Endocrine System**

**Speedy Study Guides** Speedy Publishing,2014-07-10 Everyone has an endocrine system made up of the hypothalamus pituitary gland pineal gland thyroid gland parathyroid gland pancreas gonads and the thymus Each gland has an important function in providing hormones to the human body The components of each part of the endocrine are in depth and a pamphlet about this system breaks down each gland into important and easy to remember functions for the biology student

*Endocrine System Lapbook* Cyndi Kinney,2013-07-01 This Lapbook includes an extensive Study Guide to help your student learn about the Endocrine System All booklet templates and instructions included Designed for K 8th grades with younger children requiring some assistance and explanation from the teacher Could also be adjusted to fit older students as well *Endocrine System Lapbook* Cyndi Kinney,2013-07-01 *Endocrine Systems and Regulation Study Guide 2007*,2007

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