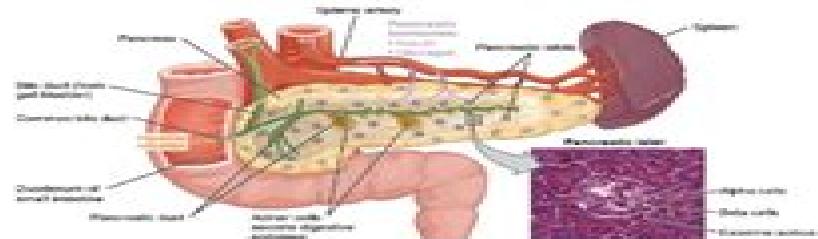


# Endocrine System

## Pancreas

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

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



## Diabetes

### 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)

### 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

# Study Guide Scf Study Guide Endocrine System

**K Payea**

## **Study Guide Scf Study Guide Endocrine System:**

Food Chemical Safety David Watson,2001-05-02 Chemical contaminants in food from pesticides and veterinary drug residues to contamination from food packaging are a major concern for the food industry Written by a distinguished international team of contributors this authoritative collection describes the main chemical contaminants their health implications how they contaminate food products methods of detection and how such contaminants can be controlled Describes the main chemical contaminants of food their health implications how they contaminate food products methods of detection and how such contaminants can be controlled *Advances in Prostate Cancer: Model Systems, Molecular and Cellular Mechanisms, Early Detection, and Therapies* Tanya I. Stoyanova, Antonina Mitrofanova, Andrew Goldstein, 2022-08-08

**Human Endocrine System - Quick Review Notes and Outline** E Staff, Human Endocrine System Quick Review Notes and Outline Learn and review on the go Use Quick Review Physiology Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all high school and college students **The Truth About Melasma** Janett Juwien, The Truth About Melasma is a groundbreaking guide that reveals the real reasons behind this stubborn skin condition and offers a path to true healing Drawing from years of experience as a cosmetic scientist and esthetician Janett uncovers the deeper often overlooked causes of melasma Through extensive research backed by over 250 clinical references she connects the dots between environmental toxins stress hormonal imbalances and the modern lifestyle that fuels this condition More than just a skincare book this is an empowering resource for those who feel frustrated hopeless or even emotionally distressed by melasma The Truth About Melasma is where modern research meets ancient wisdom With easy to understand science and natural solutions this book guides you toward restoring balance in your body creating harmony in your environment and ultimately falling in love with your natural skin If you ve been searching for real answers beyond quick fix creams and cosmetic procedures this book is your roadmap to lasting transformation *Paperbound Books in Print*, 1970 *Books in Print*, 1961 **Multi-Layered Genome-Wide Association/Prediction in Animals** Ruidong Xiang, Hao Cheng, Lingzhao Fang, Zhe Zhang, Marie-Pierre Sanchez, 2022-04-29 **Alternatives to Laboratory Animals**, 2001 **Advanced Therapy in Surgical Oncology** Raphael E. Pollock, 2008 Edited by outstanding leaders in the field of surgical oncology this book offers expert advice on prevention diagnosis treatment and reconstruction by recognised authorities The work features the personal treatment protocols of the top surgeons specialising in surgical oncology Conditions covered include benign and malignant tumors pediatric and adult problems routine and advanced or challenging presentations

**Applied Science & Technology Index**, 1996 **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1968 **Zebrafish Models for Human Disease Studies** Liqing Zang, Norihiro Nishimura, Vincenzo Torraca, Yasuhito Shimada, 2022-04-04 Research Awards Index, Encyclopedia of Endocrine

Diseases: E-Im Luciano Martini,2004      **Marquis International Who's who in Optical Science and Engineering ,1985**

Ambulatory Assessment Jochen Fahrenberg,Michael Myrtek,1996 This is the first book to appear on the topic of Ambulatory Assessment a new approach to behavioral and psycho physiological assessment The ambulatory assessment approach is based on naturalistic observations and measurements made during everyday life and has high ecological validity This also means that ambulatory assessment techniques are ideally suited for practical application in a wide range of fields Individual differences in behavior and physiology as well as behavior disorders can be investigated in real life situations where the relevant behavior can be studied much more effectively than in the artificial environment of the laboratory In this book an international group of researchers provide a comprehensive overview of ambulatory assessment The most recently developed methodologies are examined Their use is then illustrated with numerous examples of monitoring and assessment both in the workplace and with patients and including the pertinent hard and software components The essential objectives of ambulatory assessment which are covered in this volume include Recording of relevant data in natural settings Real time measurement of behavioral and physiological changes Interactive real time assessment by automatically prompting the subject to respond to questions or instructions Real time assessment and feedback by reporting physiological changes to subjects Concurrent assessment of psychological and physiological changes events episodes Correlation and contingency symptom context analysis across systemic levels as suggested in triple response models multimodal assessment Ecological validity of results andsuitability for direct applications It will be of specific interest for those interested in psychology research and its practical applications especially differential clinical and applied psychology for psychophysiolists for ergonomics human factors specialists and f

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