

Lab 5: 'Virtual Rat' Endocrine Physiology Exercise

The organs of the body communicate with each other through the nervous and endocrine systems to coordinate their activities. The **nervous system** uses neurotransmitters and neurons to convey information to and from the brain. In contrast, the **endocrine system** uses **hormones**, which are chemical messengers produced by specific tissues in the body, to transmit information. These hormones travel through the **bloodstream** to exert their effects on distant target organs.

In a similar manner, people communicate with each other by using telephones and the postal service. The body's nervous system is comparable to the telephone system because it sends fast, direct messages. The endocrine system is comparable to the postal service because the delivery of the message is slower. Like bulk mail, the message is more diffuse (reaches a greater area) and affects more than one person or organ. Although the hormone travels through the body via the blood, it can only affect those cells with **receptors** for that specific hormone. Hormones are a slower method of communication, but their effects last longer.

Objectives

At the conclusion of this activity, the student will be able to:

1. Describe the relationship between the hypothalamus and the pituitary gland;
2. Describe various hormones and explain their effects and feedback mechanisms;
3. Use small group discussion and analytic thinking to identify an unknown hormone using data from an experimental situation.

VOCABULARY LIST

Hypothalamus
Hormones
Endocrine system
Receptors
TRH
CRH
GnRH
TSH
LH
FSH

GH
ACTH
T3 and T4
Testosterone
Hypophyseal portal system
Negative feedback
Positive feedback
Atrophy
Hypertrophy

This lab will consist of two activities:

1. **Activity 1:** Predict the impact of hormone treatment on the weight of various organs.
2. **Activity 2:** Interpret autopsy data of organ and body weight of control and experimental rats to determine which unknown hormone was used in experimental rats.

Virtual Rat Endocrine Activity Answers

Jessica J Manson



Virtual Rat Endocrine Activity Answers:

Cumulated Index Medicus ,1970 **Metabolic Syndrome Consequent to Endocrine Disorders** V. Popovic,M. Korbonits,2018-04-05 Hormonal dysfunction can have a major and often complex impact on all key components of the metabolic syndrome This book comprises state of the art reviews on the subject written by recognized experts in the field of endocrinology Each chapter covers specific manifestations associated with the metabolic syndrome in classic endocrine diseases Compelling questions are highlighted and future directions presented The topics covered include hypopituitarism adrenal insufficiency acromegaly glucocorticoid excess androgen excess hypogonadism prolactin and thyroid and parathyroid hormone abnormalities This book is meant to inspire subsequent research related to metabolic complications in endocrine diseases thus enabling early detection as well as prompt and appropriate management **Environmental Health Perspectives** ,1993 **Current Trends in Drug Discovery, Development and Delivery (CTD4-2022)** Manikanta Murahari,Buchi N Nalluri,G Chakravarthi,2023-12-15 This publication is based on peer reviewed manuscripts from the 2022 Conference on Current Trends in Drug Discovery Development and Delivery CTD4 2022 held at KL University India Providing a wide range of up to date topics on the latest advancements in drug design and discovery technologies this book ensures the reader receives a good understanding of the scope of the field Aimed at scientists students regulators academics and consultants throughout the world this book is an ideal resource for anyone interested in the state of the art in drug design and discovery **GPBR Control and Functions** Yves Jacquot,Marilena Kampa,Sarah H. Lindsey,2022-01-18 [Index Medicus](#) ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **Comprehensive Toxicology** ,2017-12-01 Comprehensive Toxicology Third Edition Fifteen Volume Set discusses chemical effects on biological systems with a focus on understanding the mechanisms by which chemicals induce adverse health effects Organized by organ system this comprehensive reference work addresses the toxicological effects of chemicals on the immune system the hematopoietic system cardiovascular system respiratory system hepatic toxicology renal toxicology gastrointestinal toxicology reproductive and endocrine toxicology neuro and behavioral toxicology developmental toxicology and carcinogenesis also including critical sections that cover the general principles of toxicology cellular and molecular toxicology biotransformation and toxicology testing and evaluation Each section is examined in state of the art chapters written by domain experts providing key information to support the investigations of researchers across the medical veterinary food environment and chemical research industries and national and international regulatory agencies Thoroughly revised and expanded to 15 volumes that include the latest advances in research and uniquely organized by organ system for ease of reference and diagnosis this new edition is an essential reference for researchers of toxicology Organized to cover both the fundamental principles of toxicology and unique aspects of major organ systems Thoroughly revised to include the latest advances in the toxicological effects of chemicals on the immune system Features additional coverage throughout and a new volume on toxicology of the

hematopoietic system Presents in depth comprehensive coverage from an international author base of domain experts

The Adrenal Gland Frank Alexander Hartman, Katharine A. Brownell, 1949 **Creasy and Resnik's Maternal-Fetal Medicine: Principles and Practice** Robert Resnik, MD, Robert K. Creasy, MD, Jay D. Iams, MD, Charles J. Lockwood, MD, MHCM, Thomas Moore, MD, Michael F Greene, MD, 2013-11-06 Minimize complications with Creasy and Resnik's Maternal Fetal Medicine This medical reference book puts the most recent advances in basic science clinical diagnosis and management at your fingertips equipping you with the up to date evidence based guidelines and knowledge you need to ensure the best possible outcomes in maternal fetal medicine Creasy Resnik's Maternal Fetal Medicine Principles and Practice remains an authoritative reference book for clinical residents fellows and practicing specialists in Maternal Fetal Medicine Reviewed by Ganesh Acharya Feb 2015 Apply today's best practices in maternal fetal medicine with an increased emphasis on evidence based medicine Find dependable state of the art answers to any clinical question with comprehensive coverage of maternal fetal medicine from the foremost researchers and practitioners in obstetrics gynecology and perinatology Take advantage of the most recent diagnostic advances with a new section on Obstetrical Imaging complemented by online ultrasound clips as well as cross references and links to genetic disorder databases Stay on top of rapidly evolving maternal fetal medicine through new chapters on Recurrent Spontaneous Abortion Stillbirth Patient Safety Maternal Mortality and Substance Abuse as well as comprehensive updates on the biology of parturition fetal DNA testing from maternal blood fetal growth prenatal genetic screening and diagnosis fetal cardiac malformations and arrhythmias thyroid disease and pregnancy management of depression and psychoses during pregnancy and the puerperium and much more Access the complete contents online at Expert Consult Your purchase entitles you to access the web site until the next edition is published or until the current edition is no longer offered for sale by Elsevier whichever occurs first If the next edition is published less than one year after your purchase you will be entitled to online access for one year from your date of purchase Elsevier reserves the right to offer a suitable replacement product such as a downloadable or CD ROM based electronic version should access to the web site be discontinued **The Lancet**, 1953 Creasy and Resnik's Maternal-Fetal Medicine: Principles and Practice E-Book Robert K. Creasy, Robert Resnik, Jay D. Iams, Charles J. Lockwood, Thomas Moore, Michael F Greene, 2013-09-17 Minimize complications with Creasy and Resnik's Maternal Fetal Medicine This medical reference book puts the most recent advances in basic science clinical diagnosis and management at your fingertips equipping you with the up to date evidence based guidelines and knowledge you need to ensure the best possible outcomes in maternal fetal medicine Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Apply today's best practices in maternal fetal medicine with an increased emphasis on evidence based medicine Find dependable state of the art answers to any clinical question with comprehensive coverage of maternal fetal medicine from the foremost researchers and practitioners in obstetrics gynecology and perinatology Take

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Creasy and Resnik's Maternal-Fetal Medicine: Principles and Practice E-Book Charles J. Lockwood,Thomas Moore,Joshua Copel,Robert M Silver,Robert Resnik,2018-08-07 Long recognized as the authoritative leader in the field Creasy and Resnik s Maternal Fetal Medicine 8th Edition continues to provide the latest evidence based guidelines for obstetric and neonatal management helping you minimize complications and offer patients the best possible care Written by renowned experts in obstetrics gynecology and perinatology this comprehensive resource has been thoroughly updated and reflects new information in every area including recent tremendous advances in genetics imaging and more Focuses on complicated obstetric issues highlighting the most commonly encountered anomalies and providing clear guidelines for obstetric and neonatal management Offers comprehensive updates on rapidly changing topics including a completely revised section on genetics and genetic technology for prenatal diagnoses as well as an expanded imaging section on abdominal urogenital and skeletal imaging Includes four new chapters Molecular Genetic Technology MRI in Obstetrical Imaging Obesity in Pregnancy and Pregnancy as a Window to Future Health Features numerous flow charts for quick access to diagnosis and treatment protocols and to clarify complex material Presents the knowledge and expertise of new editors Dr Joshua Copel an expert in the field of fetal therapy who has pioneered new diagnostic techniques for unborn patients and their mothers and Dr Robert Silver a leader in the maternal fetal medicine community **Thyroid Hormones** F. M. Anne McNabb,1992 **British Abstracts** ,1940 *British Chemical and Physiological Abstracts* ,1940 *Government reports annual index* ,199? **Abstracts - Society for Neuroscience** Society for Neuroscience,1995 Consists of abstracts of papers presented at the 7th annual meeting of the Society for Neuroscience **Society for Neuroscience Abstracts** Society for Neuroscience. Meeting,1998

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