

## Immune Part Pathophysiology Case Studies – Answer Key

### Scenario 1:

D.W. is a 25-year-old married woman with three children under 5 years old. She came to her physician 7 months ago with vague complaints of intermittent fatigue, joint pain, low-grade fever, and unintentional weight loss. Her physician noted small, patchy areas of vitiligo and a scaly rash across her nose, cheeks, back, and chest at that time. Laboratory studies revealed that D.W. had a positive antinuclear antibody (ANA) titer, positive anti-dsDNA test, positive anti-Sm test, elevated C-reactive protein (CRP) and erythrocyte sedimentation rate (ESR), and decreased C3 and C4 serum complement. Joint x-ray films demonstrated joint swelling without joint erosion. D.W. was diagnosed with systemic lupus erythematosus (SLE). Her initial treatment consisted of hydroxychloroquine (Plaquenil) 400mg and prednisone (Deltasone) 20 mg orally per day, bed rest, and ice packs. D.W. responded well and the steroid was tapered and discontinued. She was told she could report for follow-up every 6 months unless her symptoms became acute. D.W. resumed her job in environmental services at a large geriatric facility.

**1. What is the significance of each of D.W.'s laboratory findings?**

- Positive ANA:** most sensitive test for lupus (screening) - 90% of all SLE patients will be positive.
- Positive anti-dsDNA & positive anti-Sm:** the most specific to SLE
- Elevated CRP & ESR and decreased C3 and C4:** nonspecific markers of inflammatory processes in the body. She has an active inflammatory process.

**2. What priority problems would be addressed in D.W.'s care plan at that time of diagnosis?**

- Education about the disease process, treatments, possible complications, recognizing signs of exacerbations, measures to reduce risk of infection, importance of good nutrition and stress reduction, and how to limit rash eruption.

28 mos after dx, D.W. seeks out her physician with complaints of puffy hands and feet and increased fatigue. D.W. reports that she has been working longer hours because of the absence of two of her fellow workers.

**3. Which laboratory findings concern you, and why?**

- Her BUN & creatinine are slightly elevated; she is slightly hyponatremic, and her urine should not have protein or red blood cells (RBCs). These are all consistent with the likelihood of D.W. having developed glomerulonephritis secondary to SLE. Immune complexes are formed against connective tissues that are eliminated through the kidneys; the immune complexes are too large to be filtered and thus collect within the glomerulus, eventually destroying the basement membrane. As the process continues, D.W. is at risk for developing end-stage renal disease.

### Scenario 2:

You are working in a community health clinic and you have just taken C.Q., a 38-year-old woman, into the consultation room. C.Q. has been divorced for 5 years, has two daughters (ages 14 and 16), and works full time as a legal secretary. She is here for her yearly routine physical examination. C.Q. states she is in a serious relationship, is contemplating marriage, and just wants to make certain she is "okay." No abnormalities were noted during C.Q.'s physical examination. Blood was drawn for routine blood chemistries and hematology studies; since she has never been tested, C.Q. agrees to a human immunodeficiency virus (HIV) test. The physician requests you perform a rapid HIV test, which is an antibody test. Within 20 minutes, the results are available and are positive.

**1. What counseling do you need to provide to C.Q.? Could this be a false positive?**

**2.**

- You need to explain the meaning of the rapid test result in simple terms, avoiding technical jargon.
- Emphasize the importance of having confirmatory testing and that you need to draw another blood sample. Go ahead and schedule a return visit for the confirmatory test results. Tell her that it is important she take precautions to avoid possibly transmitting the infection to others while awaiting results of confirmatory testing. A simple message to convey this information could be, "Your preliminary test result is positive, but we won't know for sure if you are infected with HIV until we get the results from your confirmatory test. In the meantime, you should take precautions to avoid transmitting the virus." Then review measures to decrease the risk of HIV transmission, including use of a condom with her partner during anal and vaginal intercourse.

**3. C.Q. assumes or believes (1) her partner is HIV positive; (2) he intentionally withheld the information from her; and (3) he intentionally transmitted the HIV to her through unprotected sex. Based on your knowledge of HIV infection, how would you counsel C.Q.?**

- First, ask C.Q. whether she received a blood transfusion between 1978 and 1985; underwent dental work or surgery or sustained trauma within the past several years; used a needle to inject drugs or medications into her body (even once); got tattoos; or if she and her partner are currently using condoms during intercourse.
- Suggest that C.Q. talk to j. about undergoing HIV testing; there is a possibility that j. is not infected or that he is unaware that he has the HIV infection.
- Have C.Q. make an appointment with an HIV specialist to talk about her disease and undergo further testing and workup.

# 1case Studies In Pathophysiology Answer Key

**Leslie Delong, Nancy W. Burkhart**



## **1case Studies In Pathophysiology Answer Key:**

**Medical-Surgical Nursing** Sharon L. Lewis, RN, PhD, FAAN, Linda Bucher, Margaret M. Heitkemper, RN, PhD, FAAN, Shannon Ruff Dirksen, RN, PhD, 2013-12-02 Over the past three decades more and more nursing educators have turned to Lewis Medical Surgical Nursing for its accurate and up to date coverage of the latest trends hot topics and clinical developments in the field of medical surgical nursing and the new ninth edition is no exception Written by a dedicated team of expert authors led by Sharon Lewis Medical Surgical Nursing 9th Edition offers the same easy to read style that students have come to love along with the timely and thoroughly accurate content that educators have come to trust Completely revised and updated content explores patient care in various clinical settings and focuses on key topics such as prioritization critical thinking patient safety and NCLEX exam preparation Best of all a complete collection of interactive student resources creates a more engaging learning environment to prepare you for clinical practice Highly readable format gives you a strong foundation in medical surgical nursing Content written and reviewed by leading experts in the field ensures that the information is comprehensive current and clinically accurate Bridge to NCLEX Examination review questions at the end of each chapter reinforce key content while helping you prepare for the NCLEX examination with both standard and alternate item format questions UNIQUE Levels of Care approach explains how nursing care varies for different levels of health and illness More than 50 comprehensive nursing care plans in the book and online incorporate NIC NOC and current NANDA diagnoses defining characteristics expected outcomes specific nursing interventions with rationales evaluation criteria and collaborative problems Over 800 full color illustrations and photographs clearly demonstrate disease processes and related anatomy and physiology NEW Unfolding case studies included throughout each assessment chapter help you apply important concepts and procedures to real life patient care NEW Managing Multiple Patients case studies at the end of each section give you practice applying your knowledge of various disorders and help you prioritize and delegate patient care NEW Informatics boxes discuss how technology is used by nurses and patients in health care settings NEW Expanded coverage of evidence based practice helps you understand how to apply the latest research to real life patient care NEW Expanded Safety Alerts throughout the book cover surveillance for high risk situations NEW Separate chapter on genetics expands on this key topic that impacts nearly every condition with a focus on the practical application to nursing care of patients NEW Expanded coverage of delegation includes additional Delegation Decisions boxes covering issues such as hypertension and postoperative patient care NEW Genetic Risk Alerts and Genetic Link headings highlight specific genetic issues related to body system assessments and disorders NEW Revised art program enhances the book's visual appeal and lends a more contemporary look throughout

Medical-Surgical Nursing - E-Book Sharon L. Lewis, Shannon Ruff Dirksen, Margaret M. Heitkemper, Linda Bucher, Ian Camera, 2015-07-13 Written by a dedicated team of expert authors led by Sharon Lewis Medical Surgical Nursing 8th Edition offers up to date coverage of the latest trends hot topics and clinical developments in

the field to help you provide exceptional care in today's fast-paced health care environment. Completely revised and updated content explores patient care in various clinical settings and focuses on key topics such as prioritization, clinical decision making, patient safety, and NCLEX exam preparation. A variety of helpful boxes and tables make it easy to find essential information, and the accessible writing style makes even complex concepts easy to grasp. Best of all, a complete collection of interactive learning and study tools help you learn more effectively and offer valuable real-world preparation for clinical practice.

**Lewis's Adult Health Nursing I and II: Assessment and Management of Clinical Problems** 5th ed - E-Book  
Chintamani, Dr. L. Gopichandran, Mrinalini Mani, 2024-05-20

The 12th edition of Lewis's Medical Surgical Nursing served as the model for Lewis's Adult Health Nursing I & II Fifth South Asia Edition, which offers a thorough, authentic approach to medical surgical nursing or adult health nursing in a clear, approachable manner for students. This fifth South Asia edition has been thoroughly revised to incorporate the most current information in a format that is easy to learn and practice. Not just a textbook, this edition is a reference for essential information needed by the students for preparing for all international nursing examinations. Additionally, it can serve as a vital companion in clinics, operating rooms, and emergency settings to standardize patient care in all settings.

**Sole's Introduction to Critical Care Nursing - E-Book** Mary Beth Flynn Makic, Lauren T. Morata, 2024-06-21

NEW Content on the implications of the global COVID-19 pandemic for critical care nursing includes new content on proning as a standard critical care procedure and expanded coverage of nursing self-care, including new Nursing Self-Care boxes consistent with the 2021 Future of Nursing report. NEW Expanded tools for the Next Generation NCLEX NGN Exam include more coverage of the six cognitive skills of NCSBN's Clinical Judgment Measurement Model, with new use of the cognitive skills along with nursing process terminology, expanded use of clinical judgment terminology, and expanded, newly interactive NGN-style case studies on the Evolve website. NEW Updated content reflects the latest evidence-based developments, as well as national and international guidelines. NEW Integration of the 2021 AACN Essentials features special emphasis on Clinical Judgment and Diversity, Equity, and Inclusion, including the use of non-gendered language and illustrations with enhanced diversity. NEW Key Points bulleted lists reinforce the most important content in each chapter.

**Pharmacology and the Nursing Process** 7th ed Linda Lane Lilley, Shelly Rainforth Collins, Julie S. Snyder, Diane Savoca, 2014-01-01

Rev. ed. of Pharmacology and the nursing process. Linda Lane Lilley et al. 6th ed. c2011.

**A Handbook of Pathology Basics** N.B. Singh, A Handbook of Pathology Basics is a comprehensive guide tailored for absolute beginners in the field of pathology. This essential resource offers clear and concise explanations of fundamental concepts, from the intricacies of cellular pathology to the mechanisms underlying various diseases. With a focus on accessibility, each chapter presents complex topics in an easily understandable manner, making it an indispensable tool for medical students, healthcare professionals, and anyone seeking a solid foundation in pathology. Whether exploring the diversity of conjunctival microbiota or delving into the dynamics of retinal blood flow, this handbook provides a thorough introduction to the

fascinating world of pathology      *101 Primary Care Case Studies* Sampath Wijesinghe, 2020-12-15 Real life primary care case studies from more than 50 primary care providers including physician assistants nurse practitioners and physicians 101 Primary Care Case Studies offers real life patient scenarios and critical thinking exercises to help you work through a patient's chief complaint Through narrative case studies you will determine how best to diagnose treat and manage your patient based on the history of present illness review of systems relevant history and physical examination findings This workbook will ask probing questions to help you determine differential and most likely diagnoses diagnostic tests to order and appropriate patient management strategies using relevant and timely references to support your decisions The organization of each case study simulates the patient care journey from chief complaint to outcome Serving as a virtual clinical preceptor this workbook can be used independently or in a classroom setting It is accompanied by a robust online student supplement that provides answers to all questions real outcomes of the cases and valuable personal insights from the authors on how the patient was successfully managed Not only will this workbook help you work through patient cases clinically it will also share important but often overlooked bedside manner skills needed to successfully communicate with and care for your patients Covering conditions across all organ systems and across the lifespan this workbook is organized by chief complaint providing an authentic perspective on what to expect in the patient care environment It even includes information on pathophysiology and how to use ICD 10 and CPT E M codes in your documentation The book uniquely weaves together both the science and art of medicine by including personal insights into quality and compassionate care Key Features Provides real life patient cases from an interprofessional author team of physician assistants nurse practitioners and physicians Uses a templated case study design and critical thinking exercises to help you methodically work through various patient scenarios Teaches clinical and bedside manner skills imperative for delivering quality patient care Covers patients across the lifespan including pediatric adolescent adult and geriatric populations Offers additional insight on patient education medical and legal concerns and interprofessional collaboration Includes a robust online student supplement with valuable insights from the authors on how they successfully managed the cases Provides instructors with a table of contents that is filterable by chief complaint diagnosis patient population and organ system Details changed to protect patient information      Study Guide to Accompany Drug Therapy in Nursing Diane S. Aschenbrenner, Samantha J. Venable, 2005 The perfect companion to Drug Therapy in Nursing Second Edition this invaluable study partner delivers guidance on individual patient management from a nurse as caregiver perspective helping you build essential knowledge and develop sound practice skills Knowledge building features include Top Ten Things to Know lists key terms multiple choice questions case studies and critical thinking challenges A Just the Facts feature helps deepen your understanding of essential drugs their actions indications contraindications and cautions A Patients Please feature helps you put the needs of the patient first with facts on core patient variables      **Study Guide for Medical-Surgical Nursing - E-Book** Sharon L. Lewis, Susan A. Sandstrom, Linda Bucher, Mariann M. Harding, Margaret M.

Heitkemper,Jeffrey Kwong,Dottie Roberts,2016-09-07 Prepare for success in the classroom Corresponding to the chapters in the 10th edition of Lewis market leading text Medical Surgical Nursing Assessment and Management of Clinical Problems this study guide offers a complete review of content and a wide range of activities to help you understand key nursing concepts Alternate item format questions reflect the most current NCLEX test plan And to make studying easier answers for all exercises are included in the back of the book A wide variety of clinically relevant exercises and activities including NCLEX examination style multiple choice questions prioritization and delegation questions and case studies help you learn the material Answers to all questions in the back of the book provide you with immediate feedback as you study Additional alternate item format questions prepare you for the most current NCLEX exam NEW Attractive four color design ties the study guide to the textbook

**Pharmacology and the Nursing Process - E-Book** Linda Lane Lilley,Shelly Rainforth Collins,Julie S. Snyder,2014-06-16 With its colorful user friendly format Pharmacology and the Nursing Process 7th Edition provides students with all the pharmacology information they need and no more than they need to administer drugs safely and effectively Increased emphasis on the nursing process and prioritization focuses on the most essential assessments nursing diagnoses interventions and evaluations Thoroughly updated drug information is clear and concise highlighting the most commonly used drugs and includes a unique focus on safety oriented QSEN competencies Hundreds of full color illustrations show how drugs work in the body and depict key steps in drug administration Written by expert pharmacology educators and clinicians this bestselling textbook employs innovative practical learning aids to help your students prepare for success on the NCLEX Examination and in nursing practice Focus on need to know information provides the most essential drug information for safe effective clinical practice Focus on the nursing process and prioritization helps you apply the nursing process to all aspects of drug therapy from assessment to nursing diagnoses interventions and evaluation outcome criteria UNIQUE Illustrated Study Skills Tips include practical advice on time management note taking study techniques and test taking strategies Special boxes and tables highlight evidence based practice dosages pharmacokinetics laboratory values related to drug therapy preventing medication errors cultural implications lifespan considerations herbal therapies and legal and ethical principles Nearly 300 full color illustrations and the Photo Atlas of Drug Administration show how drugs work in the body and depict key steps in drug administration by various routes NCLEX Examination style review questions are included in every chapter with at least one alternate format item per chapter and more than 40 new dosage calculation questions Drug profiles highlight the pharmacokinetics and unique variations of commonly used drugs Case studies promote clinical reasoning skills related to nursing pharmacology Patient Teaching Tips include key points to convey to patients their families and their caregivers

**Respiratory Care Clinical Competency Lab Manual** Sandra T Hinski,2013-12-10 Respiratory Care Clinical Competency Lab Manual provides the practical skills needed to apply classroom theory to clinical practice This text has the flexibility to be used in conjunction with all other respiratory care titles as well as in other

disciplines that require competencies in respiratory therapy With detailed step by step procedures supporting procedural illustrations hands on lab exercises case studies and critical thinking questions this text helps you understand and apply theoretical knowledge by demonstrating specific skills Procedural competency evaluation forms help you to assess your progress and performance of specific procedures Detailed structured lab activities provide hands on opportunities to assess psychomotor and patient communication skills in a controlled environment Content correlation to NBRC combined CRT RRT exam content outlines helps you better prepare for credentialing exams Step by step procedural competencies prepare you for the RT competency areas established by the American Association of Respiratory Care AARC and meet the national practice standards for patient care Up to date coverage of current technology equipment Clinical Practice Guidelines CPGs CPR guidelines and CDC recommendations and mass casualty disaster management equips you with the most state of the art training for respiratory care Integration of case based questions within the lab activities helps you develop and promote your critical thinking abilities UNIQUE Coverage of polysomnography addresses clinical evaluation in this expanding specialty area Over 200 images provide visual guidance on how to perform procedures UNIQUE Reality Check boxes arm you with practical knowledge on real world application of various procedures UNIQUE Tip boxes supply you with helpful pointers for the clinical arena Glossary of terms offers quick reference to terms presented in the text **Gastrointestinal Motility**

Satish S.C. Rao, 2012-12-06 Gastrointestinal motility has evolved from an esoteric laboratory tool into a sophisticated diagnostic technique that is now widely used clinically to guide in management of complex gastrointestinal problems Today it is the most rapidly growing subspecialty within gastroenterology Previously many of the gastrointestinal motility problems were either ignored or attributed to a disturbance of psyche But with the growing knowledge and understanding of how a dysfunction of the gastrointestinal muscle and nerves can cause disease we are at the threshold of a revolution in our approach to the diagnosis and treatment of gastrointestinal motility disorders The purpose of this book is to serve as a useful up to date reference manual and guide for the diagnostic and therapeutic approach towards common adult and pediatric gastrointestinal motility problems In order to enhance the understanding of these disorders a problem oriented approach has been chosen and wherever possible the authors have provided clinical case scenarios to illustrate their message The emphasis has been on how to diagnose and treat motility disorders rather than to provide an encyclopedic information The reference list at the end of each chapter should enable the enthusiast to seek further information Some of the material presented in this book has been derived from the proceedings of the annual University of Iowa College of Medicine GI Motility Symposia *Lilley's Pharmacology for Canadian Health Care Practice - E-Book* Kara Sealock, Cydnee

Seneviratne, 2024-07-11 Let Canada's 1 pharmacology text guide you in mastering the complicated world of nursing pharmacology Now in its fifth edition Lilley's Pharmacology for Canadian Health Care Practice covers all the key pharmacology content needed by today's Canadian nurses Known for its vibrant design abundance of visuals and wealth of

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**Brunner and Suddarth's Textbook of Medical-Surgical Nursing** Mary Jo Boyer,2010 The perfect companion to Brunner and Suddarth s Textbook of Medical Surgical Nursing this exemplary study tool helps you better understand the concepts techniques and disease processes detailed in the textbook

**Lewis's Medical-Surgical Nursing, Fourth South Asia Edition - E-Book** Chintamani,Dr. L. Gopichandran,Mrinalini Mani,2021-12-21 Content mapped and aligned to the revised BSc Nursing syllabus Nearly 60 nursing care plans incorporated within the textbook focusing on nursing assessment diagnoses intervention and outcome applying them to nursing practice Several new pathophysiology maps added to the chapters National programs added National Blindness Control Program National Deafness Control Program Indian Transplantation programs Other topics incorporated in the text Eye banking Post heart transplant follow up management with checklist Nursing management of patients in emergency and disaster situations Highlights of newly introduced courses e g Nurse Practitioner Midwifery Hospice care in India National Pressure Ulcer Advisory Panel NPUAP guidelines for assessment of pressure ulcers Screening for breast cancer and cervical cancer Content on occupational and industrial disorders added Ancillary Content on MedEnact Website Educator Resources TEACH for Nurses lesson plans PowerPoint presentations Image Collection Nursing Care Plans Student Resources Key Points Review Questions Case Studies Answer Keys for Case Studies and Rationales for Bridge to NCLEX Examination questions Nursing Care Plans

**Elsevier's Case Study Practice Review for the Next Generation NCLEX (NGN) - E-Book** Kara Sealock,2025-05-22 Use case studies and practice exams to prepare for the Next Generation NCLEX RN Designed for nursing students Elsevier s Case Study Practice Review for the Next Generation NCLEX NGN provides step by step advice and concrete methods to solving case studies and targeted questions that help you build critical thinking and clinical judgement skills A combined total of 130 stand alone and unfolding case studies are offered in the book and its Evolve website with rationales for correct and incorrect answers the clinical judgement skill being tested and Elsevier text references for further learning Written by noted educator Kara Sealock this review ensures that you are ready for success on the NGN and in your nursing career Review content reflects the new 2023 Next Generation NCLEX NGN test plan and its emphasis on clinical judgement cognitive skills Case studies for the NGN prepare you for the biggest change to the NCLEX RN test plan to date the addition of questions measuring clinical judgement skills Two in text practice exams include 100 stand alone and unfolding case studies for the NGN giving you plenty of testing practice with critical thinking and clinical judgement skills Case studies on the Evolve website include all case studies from the book in interactive format plus 30 additional case studies creating a virtually unlimited number of practice sessions or tests in Study Mode or Exam Mode In



depth rationales are provided for both correct and incorrect answers to each question Answer keys for each practice test

Case Studies in Uncommon Headache Disorders Ambar Chakravarty,2023-09-12      **Clinical Exercise**

**Electrocardiography** Shel Levine,Brian J. Coyne,Lisa Cooper Colvin,2015-02-13 Clinical Exercise Electrocardiography addresses the needs of exercise physiologists working in a clinical setting and highlights static interpretation and rhythm strips and 12 leads Not only does it include the traditional basic electrocardiography ECG arrhythmia myocardial infarction and pacemaker chapters it also provides easy to read chapters on cardiac pathophysiology cardiovascular testing procedures cardiac pharmacology and structural health disease and inflammatory processes The authors also address the differences in ECG interpretation in women children and athletes and examine the use of ECGs in exercise stress testing situations

*Clinical Neuroepidemiology of Acute and Chronic Disorders* Jahangir Moini,Amparo Gutierrez,Nicholas Avgeropoulos,2023-05-12 Clinical Neuroepidemiology of Acute and Chronic Disorders explores the epidemiology of disorders that affect the nervous system providing comprehensive discussions on incidence prevalence and more With thorough coverage of a variety of disorders chapters detail etiology risk factors pathophysiology clinical manifestations diagnosis global incidence and prevalence age specific incidence global mortality prevention treatment and prognosis for each disorder Chapters uniquely discuss the effects of the COVID 19 coronavirus upon the nervous system and in relation to several diseases including new discoveries and treatments for Alzheimer s disease and migraine headaches Real world case studies with critical thinking questions and Focus On boxes highlight important information Covers a variety of disorders and their etiology including risk factors pathophysiology clinical manifestations diagnosis incidence of mortality prevention treatment and prognosis Features real world case studies with critical thinking questions and answers Includes Focus On boxes that highlight key information in each chapter Highlights treatments for various disorders including Alzheimer s disease and migraines Discusses the effects of COVID 19 on the nervous system in relation to several diseases      *Pathophysiology of Disease: An Introduction to Clinical Medicine 8E* Gary D. Hammer,Stephen J. McPhee,2018-11-30 A full color case based review of the essentials of pathophysiology covering all major organs and systems More than 130 case studies with Q A A Doody s Core Title for 2020 The goal of this trusted text is to introduce you to clinical medicine by reviewing the pathophysiologic basis of 132 diseases and associated signs and symptoms commonly encountered in medical practice The authors all experts in their respective fields have provided a concise review of relevant normal structure and function of each body system followed by a description of the pathophysiologic mechanisms that underlie several common diseases related to that system The accessible presentation features high quality full color illustrations and numerous tables and diagrams Each chapter of Pathophysiology of Disease concludes with a collection of case studies and questions designed to test your understanding of the pathophysiology of each clinical entity discussed These case studies allow you to apply your knowledge to specific clinical situations Detailed answers to each case study question are provided at the end of the book This unique

interweaving of physiological and pathological concepts will put you on the path toward thinking about signs and symptoms in terms of their pathophysiologic basis giving you an understanding of the why behind illness and treatment HERE ARE SOME OF THE MANY UPDATES AND ADDITIONS Twelve additional case studies bringing the total to 132 one for each of the clinical entities discussed in the book s 24 chapters More than 2 3 of the chapters are enhanced and refreshed by the input of new contributors Totally revised chapter on neoplasia New chapter sections on urticaria spinocerebellar ataxia idiopathic pulmonary fibrosis and spondyloarthropathies New tables summarizing adverse prognostic signs in acute pancreatitis genetic syndromes associated with pancreatic cancer and causes of end stage renal disease New diagnosis and etiologic classification of diabetes mellitus and review of mechanisms of newest pharmacologic agents for its treatment Updates on fine needle aspiration biopsy of thyroid nodules and thyroid disorders in pregnancy Updated references throughout the book

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