

no further ACh is released until the drug is cleared. Name another site within the neuromuscular junction that might be affected to prevent muscle contraction. (Hint: curare acts by this mechanism.)

Muscle Physiology Case Studies - Case 4

Sarah, a twenty-one year old student at Iowa State University had spent Thanksgiving day with relatives at her grandparent's farm. During her drive back to campus on Friday morning her vision became blurry, and she was forced to pull over to the side of the road. As she sat in her car, her vision worsened. She opened the car hood in hope of attracting aid and tried to relax. In a short time, a highway patrol officer pulled over and approached Sarah. By this time, Sarah was having trouble swallowing and speaking clearly. The officer helped Sarah to his car and rushed her to the emergency room at a nearby hospital.

In the ER, Sarah was able to describe her symptoms to a physician. The physician made note of what Sarah had eaten during the last 24 hours and was especially interested in the fact that Sarah's grandmother canned all of her own vegetables. The physician observed that Sarah's breathing was becoming labored. She ordered Sarah's blood sampled, her gastrointestinal tract pumped, and a mechanical respirator prepared for use. Fearing that Sarah suffered from a case of botulism, she asked that Sarah's grandparents be contacted and samples of the Thanksgiving meal retained, if possible, and sent to a local clinic for analysis.



Case Background

Botulism is a form of food poisoning caused by exposure to a toxin called botulin. Botulin is produced by *Clostridium botulinum*, a spore forming, anaerobic bacterium that can contaminate food. Whereas commercially canned foods are specifically heated to destroy botulinum spores, home canned foods that are not boiled for a half-hour prior to canning may be contaminated.

The botulin toxin binds to the presynaptic membranes at motor end plates and prevents the release of acetylcholine from motor neurons, thereby preventing synaptic transmission and muscle contraction. Treatment includes bed rest, and if required, mechanical respiration, and/or administration of drugs to promote acetylcholine release. The mortality rate for botulism is about 15 percent and the cause of death is suffocation.

Questions

11. What two organ systems are primarily affected by botulin intoxication?
12. List the normal sequence of events that occur during synaptic transmission at a motor end plate.
13. What were Sarah's symptoms and how do they relate to the blockage of acetylcholine release from motor neuron synaptic terminals?
14. What is the significance of *Clostridium botulinum* being anaerobic?
15. Why didn't the physician prescribe an antibiotic?

Answers To Muscle Case Study

**Bob Elling, Kirsten M. Elling, Mikel A.
Rothenberg, American Academy of
Orthopaedic Surgeons**

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Pathology in Clinical Practice: 50 Case Studies Barry AT Newell, Susan Dilly, Caroline Finlayson, Mitesh Gandhi, Sunil Lakhani, 2009-01-30 Once students have learned the principles behind basic pathology and the mechanisms of disease they must then consolidate their knowledge by putting those principles into clinical practice Providing a practical learning experience this volume presents fifty structured clinical scenarios Each case is based on a clinical situation that pulls together

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help direct your study of the physiologic mechanisms of that organ system Chapter Questions ask you to apply what you have learned in that chapter to building an understanding of the case Answers to chapter questions allow you to check your understanding and direct further review A comprehensive Case Analysis with cause and effect diagrams reviews in detail the physiology behind the case Access via scratch off code to all the cases in your book plus additional clinical cases with questions and answers and case analysis to enable convenient online review and testing Specifically designed for the first and second year medical student this innovative text ideal as a study aid for the USMLE provides the tools needed to learn and apply physiology to medical practice **Health Careers Today - E-Book** Judith Gerdin,2011-04-08 Describing more than 45 health careers Health Careers Today 5th Edition offers a practical overview to help you make an informed decision in choosing a profession Not only does it discuss the roles and responsibilities of various occupations it provides a solid foundation in the skills needed for all health careers Clear explanations of anatomy and physiology provide essential knowledge of health related to the human body and show how this applies to different careers A companion Evolve website includes skills videos animations quizzes and flashcards Written by experienced educator Judith Gerdin this book reflects National Health Care Skills Standards A clear easy to read approach makes it easy to explore health career options Over 45 health careers are discussed including the requirements and roles and responsibilities of each Full color drawings and photographs illustrate concepts techniques and equipment The National Health Care Skills Standards are incorporated and the book's organization closely follows the standards An Anatomy and Physiology unit covers all of the body systems and applies A P to various career settings Skill Activities provide the opportunity to obtain hands on experience Learning Objectives at the beginning of each chapter focus on key information Key Terms with definitions are listed at the beginning of each chapter Core concepts are reinforced with more than 70 content boxes skill boxes review questions and critical thinking questions National Standard sections summarize the specific number and name of each national standard covered in that chapter along with page references Chapter summaries make it easy to review and identify key content A comprehensive glossary includes all key terms and definitions for quick reference Student resources on a companion Evolve website include fill in the blank and drag and drop quizzes flashcards anatomy and physiology animations skill videos an audio glossary and web links A workbook corresponds to the chapters in the textbook and features learning activities such as vocabulary practice exercises medical abbreviation practice exercises coloring labeling activities concept application exercises laboratory exercises critical thinking exercises and Internet activities Sold separately **Paramedic: Anatomy and Physiology** Bob Elling,Kirsten M. Elling,Mikel A. Rothenberg,American Academy of Orthopaedic Surgeons,2003-11 This book uses a case based approach to help future paramedics develop analytical skills while learning the content of anatomy and physiology The text presents both the gross anatomy and the microscopic anatomy of vital structures **101 Primary Care Case Studies** Sampath Wijesinghe,2020-12-15 Real life primary care case studies from more than 50 primary care providers

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