Pathophysiology: A Practical Approach

Featured Presenter: Lachel Story, PhD, RN **Webinar:** Wednesday, February 22, 2017



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Author Introduction



Lachel Story, PhD, RN

- 22 years nursing experience
- 17 years teaching experience - LPN, ADN, BSN, MSN, and PhD
- 13 years teaching Pathophysiology at The University of Southern Mississippi

- Associate Professor
- Assistant Dean for Research and Evaluation
- Interim Chair, Advanced
 Practice Department
- PhD Program Director
- Community-based participatory research focus area

Why A New Pathophysiology Text?

- You feel your students are overwhelmed by the copious amounts of material
- You struggle helping students connect and understand complex material
- You are wanting students to engage more
- You are ready for a practical, student-friendly pathophysiology book

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About the Text

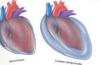
- Practical textbook with a clinical context that can serve as a foundation for other classes
- Student-friendly
- Engages students

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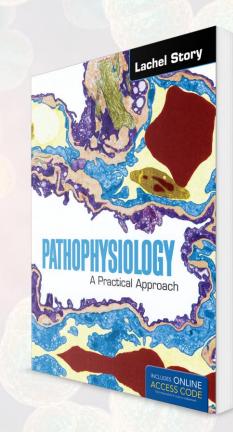
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The Underlying Pedagogy

- Pragmatic
- Confidence-building
- Student engagement

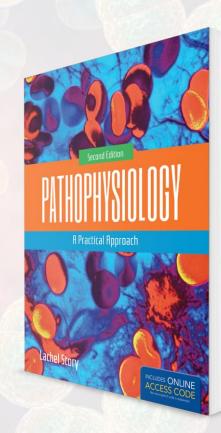


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Second Edition

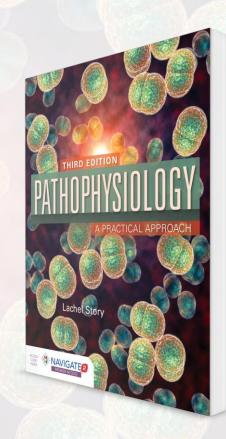
- Supports recent calls to reform nursing education
 - Benner et al., 2010; IOM, 2011; RWJF, 2010
- Organized conceptually
- Added Application to Practice feature





Third Edition

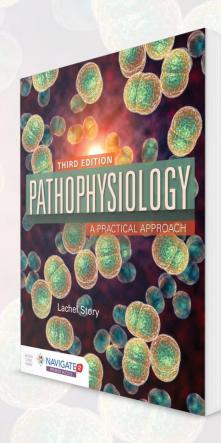
- Continued current features
- Active learning strategies and activities
- More pediatric content/considerations





Third Edition

- Expanded and new case studies
- More test bank questions
- More dynamic images





Active Learning Activities

Group activities to

- learn how to process and think about information differently
- develop memory aids
- learn how to prioritize
- teach empathy and gain a deeper understanding

Myth Busters

Several myths regarding diabetes mellitus (DM) in the community merit discussion.

Myth 1: People with diabetes cannot eat sweets or chocolate.

If chocolate and other sweets are eaten as part of a healthy meal plan, or combined with exercise, people with DM can eat them. They are no more off-limit foods for people with DM than they are for people without DM.

Myth 2: Eating too much sugar causes diabetes.

DM is caused by a combination of genetic and lifestyle factors, not by eating too much sugar. However, being overweight does increase your risk for developing type 2 DM. If there is a family history of DM, following a healthy meal plan and getting regular exercise are recommended to manage weight.

Myth 3: Pills for DM provide oral insulin.

Oral medications for DM affect the ability of the body to produce insulin and use insulin better—they are not oral insulin. Going through the gastrointestinal system would destroy the insulin; therefore, insulin is injected.

Myth 4: Drinking water can excrete the extra sugar in the blood.

Extra glucose in the blood cannot be excreted by drinking extra water. However, DM can be controlled by eating healthy food, being physically active, managing weight, routine examinations, taking prescribed medications, and monitoring blood glucose often.

Myth 5: Fruit is a healthy food, so it is acceptable to eat large quantities of it.

Fruit is a healthy food, containing fiber and lots of vitamins and minerals. Because fruit contains carbohydrates that break down quickly into simple sugars, it needs to be included in a healthy meal plan, but amounts should be controlled because fruit will raise blood glucose levels.

Myth 6: When taking oral diabetic medications or insulin, people with DM can eat anything they want.

The oral medications or insulin taken for DM are more effective when they do not have to work as hard to lower blood glucose. Combining medicines with a healthy meal plan and physical activity gives better glucose control.

Myth 7: Once a person begins taking oral diabetic medications or insulin for type 2 diabetes, they must be taken for life.

Sometimes, temporary circumstances may cause elevated glucose levels (e.g., glucocorticoid therapy and total parenteral nutrition administration), and diabetic medications will be needed only during those events. Some people who have been started on oral diabetic medications and/or insulin find that they can control their blood glucose without medications with weight loss, exercise, and healthy dieting.

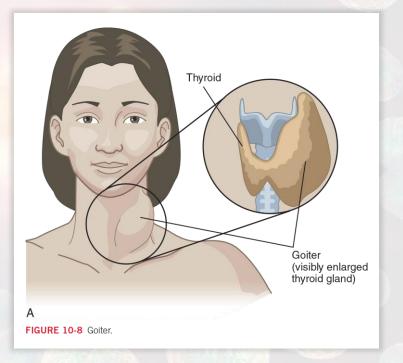
Data from American Diabetes Association. (2015). Diabetes myths. Retrieved from http://www.diabetes.org/diabetes-basics/myths/



Active Learning Activities

Class activities to

 show how to apply pathophysiology content as well as connect it to other courses (e.g., assessment)



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How is this Text Different?

- Does not overwhelm students
 with excessive detail
- Provides sufficient detail to develop understanding and build a foundation for future learning
- Provides a clinical context and engages students

Now that we have explored the dif- ferent tyse of hypersensitivity, left put that innovikelge thio practice. During the shift drams, you needs to the shift of the shift of the shift of the lowing report? • An 11-year-old rask with a his- inry of a postnai allorgy harding an anaphylactic reaction • A 2.3-year-old made dagnosed with contact dermatilit second- ary to polon by exposure • with inverse hay fewer • A 3-oyear-old female with a pos- tive tuberculin data test	When considering these types of straintons, rathy to considering wholes at risk of dying or losing a vital func- tion (e.g., limb or cognitaliator; flark, it neare of the confluences in the fitter as a straint of the confluence in the straint straint of the confluence in the straint straint of the straint of the straint considering straint of the straint of the straint of the straint of the straint of the straint straint of the straint	reaction can cause tissue weeding that block the alway and signifi- cantly impairs repiratory efforts. The connect demantik, while quite using constructions and the interacting science of the start of the start of the threatening. The positive skin test may indicate an active tubercollocity infection, which may eventually be if the threatening, but it is a chosen infection, which may eventually the threatening the start of the mediate life-aviring measures. In this group of pattern, the nume should see the 11-year-old first because he requires timmediate assessment and measures to prevent death.
which then combine to form imm plexes. These immune complexes fig the body's own tissues (e.g., nucleic	ht against variety of symptoms and	

which then combine to form immune com- plexes. These immune complexes fight against the body's own tissues (e.g., nucleic acids, red	
blood cells, platelets, and lymphocytes). Hyper-	
active helper T cells and subdued suppressor T cells are thought to create a prime environment	
for B cells to overproduce. This unpredictable disorder most often	
harms the heart, joints, skin, lungs, blood vessels, liver, kidneys, and nervous system	
(TABLE 2-5). SLE occurs 9 times more often in women than in men, especially between the	
ages of 15 and 50, and is more common in Asians and African Americans.	

Because patients with SLE can have a wife variety of symptome and different condustations of ergan involvement, no stagic sets can define the symptometry of the symptometry of the symptometry reterns wave accessible different conduction of LL creaters wave accessible different conduction of LL creaters wave accessible different conductions of these catterns to quality for a defined dagoon of these catterns to quality for a defined dagoon menti SLE diagnosis only after momentia or years. Where a person has hour or more of these entities of these catterns and the symptometry of the symptometry Weight and the symptometry of the symptometry of the Weight here, diagnostic may be made in some

TABLE 2-5 Common Manifestations of Systemic Lupus Erythematosus		
Joints	Polyarthritis, with swollen, painful joints, without damage; arthraigia	
Skin	Butterfly rash with erythema on cheeks and over nose, or rash on body; photosensitivity—exacerbation with sun exposure; ulcerations in oral muccoa; hair loss	
Kidneys	Glomerulonephritis with antigen-antibody deposits in glomerulus, causing inflammation with marked proteinuna and progressive renal damage	
Lungs	Pleurisy-Inflammation of the pleural membranes, causing chest pain	
Heart Carditis—Inflammation of any layer of the heart, commonly pericarditis		
Blood vessels Raynaud's phenomenon-periodic vesospasms in fingers and toes, accompanies		
Central nervous system Psychoses, depression, mood changes, seizures		
Bone marrow Anemia, loukopenia, thrombocytopenia		

Benefit to Students

- Clinically relevant
- Visually appealing
- Easy to understand
- Practical

Learning Points

- C everal actions should be avoided with burns:
- Do not apply ointment, butter, ice, medications, cream, oil spray, or any household remedy to a severe burn.
- Do not breathe, blow, or cough on the burn.
- Do not disturb blistered or necrotic skin.
- Do not remove clothing that is stuck to the skin.
- Do *not* give the person anything by mouth if there is a severe burn (surgery may be necessary).
- Do not immerse a severe burn in cold water because doing so can cause shock.
- Do *not* place a pillow under the person's head if there is an airway burn because this positioning of the head can close the airway.



Benefits to Faculty

- Supports current trends and changes in nursing practice and education
- Students will want to read and use
- Assists in teaching students how information is applied in practice
- Provides resources to increase student engagement



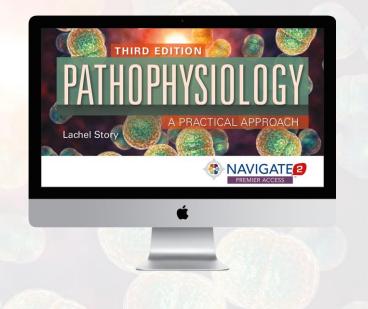
Teaching Tips

- Case Studies
- Classroom Response Systems
- Patient Scenarios
- Simulation
- Delegation and Prioritization Exercises
- Games
- Exam preparation with Navigate 2 Premier Access



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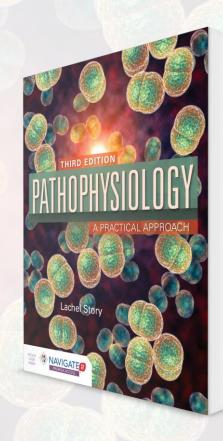
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