

KAPLAN APPROACH

By

Prof. Hanan Sayed Mohamed Farghaly

Introduction

- ١- الموقع مصمم اصلا لطالب يحضر لامتحان USMLE I و يستخدمه للدراسة الذاتية
- ٢- الكلية تستخدم المصادر الموجودة بالموقع كإطار لتوصيل المقرر في الجزء الخاص ب knowledge
- ٣- المحاضرات التي يقوم باعطاءها أعضاء هيئة التدريس و ان كانت مبنية على الكتاب فهي لا غنى عنها لانها توضح المحتوى و تضيف اليه عند الحاجة و قد تصحح بعض المعلومات و خاصة في المعلومات الإكلينيكية

**www.kaplanmedical.com or
<https://www.kaptest.com/usmle>**

USMLE® PREP

WHICH EXAM ARE YOU PREPPING FOR?

USMLE Step 1

USMLE Step 2 CK

USMLE Step 3

COMLEX-USA LEVEL 1

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Resources

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MY INFO

[EDIT](#)

Name

Prof. Hanan Farghaly

Billing Address

Please update address

New York, NY 10017

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0

MY LOGIN

Email

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Password

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Target Test

Phone
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School Name

Graduation Year

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Target Test
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Target Test Date

MY ACTIVE RESOURCES

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HIDE DETAILS ^

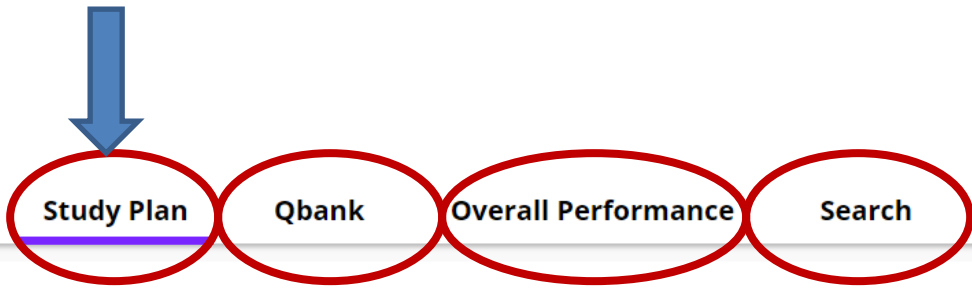
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Step 1 Prep On Demand - Institutional

Welcome

- + Assignments Center
- + Part 1: Foundations
- + Part 2: Integrated
- + Part 3: Assessments

WELCOME TO YOUR STEP 1 ONLINE RESOURCES

- 1 **Quickstart Video**
Video 2m
+ How to best use all of your resources
- 2 **Digital Lecture Notes**
Link
+ How to access your digital Lecture Notes
- 3 **Diagnostic Exam**

- + Assignments Center
- + Part 1: Foundations
- + Part 2: Integrated
- + Part 3: Assessments

STEP 1

ONLINE RESOURCES

1 Quickstart Video

Video 2m



- + How to best use all of your resources

2 Digital Lecture Notes

Link



- How to access your digital Lecture Notes

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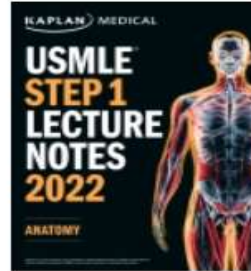
3 Diagnostic Exam



medEssentials for the USMLE Step 1

n/a

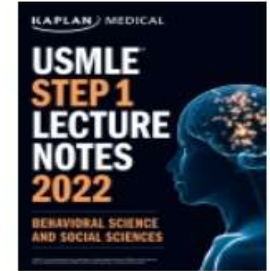
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USMLE Step 1 Lecture Notes 2022: Anatomy

n/a

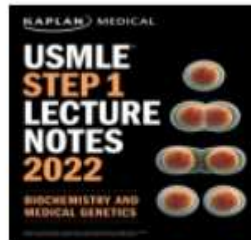
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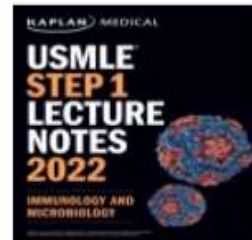
n/a

9781506284293



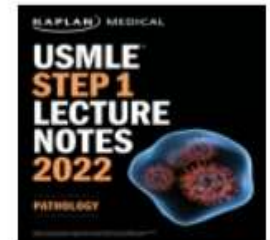
USMLE Step 1 Lecture Notes 2022: Biochemistry and Medical Genetics

n/a



USMLE Step 1 Lecture Notes 2022: Immunology and Microbiology

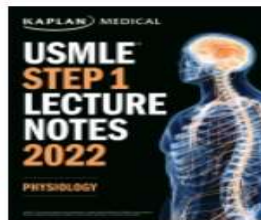
n/a



USMLE Step 1 Lecture Notes 2022: Pathology

n/a

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USMLE Step 1 Lecture Notes 2022: Physiology



USMLE Step 1: Integrated



USMLE Step 1 Lecture Notes 2022: Pharmacology

n/a

Step 1 Prep On Demand - Institutional

Welcome

+ Assignments Center

- Part 1: Foundations

Anatomy: Embryology & Histology

Anatomy: Gross Anatomy

Anatomy: Neuroscience

Anatomy: Clinical Correlates & Animations

Behavioral Science: Epidemiology & Biostats

Behavioral Science: Foundations



Autonomic

5h
Total Time

- 1 ▼ **Read Your Kaplan Step 1 Lecture Notes**
 Book Assignment
 + Pharmacology Lecture Notes - Autonomic
- 2 ▼ **Check Your Current Understanding**
 Quiz 7m Timed
 + Autonomic Warmup



Biochemistry: Metabolism

Biochemistry: Medical Genetics

Biochemistry: Clinical Correlates & Animations

Immunology: The Immune System

Immunology: Development & Response

Immunology: Humoral & Cell-Mediated

Immunology: Diagnosis & Immunization

Immunology: Deficiencies & Disease

Immunology: Transplantation

Immunology: Clinical Correlates & Animations

Microbiology: General Microbiology

3

▼ The Autonomic Nervous System

Video 34m

+ The Autonomic Nervous System

Quiz 21m Timed

+ The Autonomic Nervous System Quiz

4

▼ Cholinergic Pharmacology

Video 49m

+ Cholinergic Pharmacology: Agonists

Video 23m

+ Cholinergic Pharmacology: Antagonists

Quiz 28m Timed

+ Cholinergic Pharmacology Quiz

5

▼ Adrenergic Pharmacology

Video 50m

+ Adrenergic Pharmacology

Video 22m

+ Alpha and Beta Receptors

Quiz 21m Timed

+ Adrenergic Pharmacology Quiz 1



Microbiology: Bacteria

Microbiology: Viruses

Microbiology: Fungi

Microbiology: Parasitology

Microbiology: Clinical Infectious Disease

Microbiology: Comparative Microbiology

Microbiology: Clinical Correlates & Animations

Physiology: Fluid & Edema

Physiology: Excitable Tissue

Physiology: Muscle

Physiology: Cardiovascular

+ Adrenergic Pharmacology Quiz 1

Quiz 19m Timed

+ Adrenergic Pharmacology Quiz 2

6

Autonomic Drugs: Glaucoma Treatment

Video 58m

+ Autonomic Drugs: Glaucoma Treatment/Questions

Quiz 7m Timed

+ Autonomic Drugs: Glaucoma Treatment Quiz



Physiology: Muscle

Physiology: Cardiovascular

Physiology: Respiration

Physiology: Renal

Physiology: Endocrinology

Physiology: Gastrointestinal

Physiology: Clinical Correlates &
Animations

Pathology: Pathophysiology

Pathology: Genetic Disorders

Pathology: Immunopathology

Pathology: Amyloidosis



Pathology: Amyloidosis

Pathology: Neoplasia

Pathology: Skin

Pathology: Anemias

Pathology: Cardiopulmonary

Pathology: Renal

Pathology: Gastrointestinal

Pathology: CNS Pathology

Pathology: Hematopoietic

Pathology: Female & Male

Pathology: Endocrine

Pathology: Musculoskeletal

Pathology: Musculoskeletal

Pathology: Clinical Correlates & Animations



Pharmacology: General Principles

Pharmacology: Autonomic

Pharmacology: Cardiac And Renal

Pharmacology: CNS Pharmacology

Pharmacology: Antimicrobials

Pharmacology: Anti-Inflammatories

Pharmacology: Blood Disorders

Pharmacology: Endocrine

Pharmacology: Anticancer Drugs



Pharmacology: Autonomic

Pharmacology: Cardiac And Renal

Pharmacology: CNS Pharmacology

Pharmacology: Antimicrobials

Pharmacology: Anti-Inflammatories

Pharmacology: Blood Disorders

Pharmacology: Endocrine

Pharmacology: Anticancer Drugs

Pharmacology: Immunopharmacology

Pharmacology: Toxicology

Pharmacology: Clinical Correlates &
Animations

Part 3: Introduction

Completed Assignments

Part 1: Foundations

Anatomy: Embryology & Histology

Anatomy: Gross Anatomy

Anatomy: Neuroscience

Anatomy: Clinical Correlates & Animations

Behavioral Science: Epidemiology & Biostats

Behavioral Science: Foundations

Patient Safety

Biochemistry: Foundations

Biochemistry: Metabolism

Biochemistry: Medical Genetics

1 Read Your Kaplan Step 1 Lecture Notes

2 Check Your Current Understanding

Quiz 7m Timed

Pharmacology General Principles Warmup

5 questions designed to help you create a baseline and identify areas that require you watch the topical videos.

Once complete, please review your quiz and annotate your Lecture Notes.

RESUME

3 Pharmacokinetics

Video 31m

+ Permeation

Video 26m

+ Absorption and Distribution

Step 1 Prep On Demand - Institutional

Welcome

+ Assignments Center

- Part 1: Foundations

Anatomy: Embryology & Histology

Anatomy: Gross Anatomy

Anatomy: Neuroscience

Anatomy: Clinical Correlates &
AnimationsBehavioral Science: Epidemiology &
Biostats

Behavioral Science: Foundations



General Principles

1

▼ Read Your Kaplan Step 1 Lecture Notes

Book Assignment

- Pharmacology Lecture Notes - General Principles

[2022 Pharmacology Lecture Notes - p. 3-34](#)

MARK COMPLETE

Anatomy: Embryology & Histology

Anatomy: Gross Anatomy

Anatomy: Neuroscience

Anatomy: Clinical Correlates & Animations

Behavioral Science: Epidemiology & Biostats

Behavioral Science: Foundations

Patient Safety

Biochemistry: Foundations

Biochemistry: Metabolism

Biochemistry: Medical Genetics

Biochemistry: Clinical Correlates & Animations

1 ▶ **Read Your Kaplan Step 1 Lecture Notes**

2 ▼ **Check Your Current Understanding**

Quiz 7m Timed

+ Pharmacology General Principles Warmup

3 ▼ **Pharmacokinetics**

Video 31m

+ Permeation

Video 26m

+ Absorption and Distribution

Video 24m

+ Biotransformation

Video 15m

+ Elimination

Video 24m

+ Steady State/Review Questions

4 ▼ **Pharmacodynamics**

Video 22m

Biochemistry: Medical Genetics

Biochemistry: Clinical Correlates & Animations

Immunology: The Immune System

Immunology: Development & Response

Immunology: Humoral & Cell-Mediated

Immunology: Diagnosis & Immunization

Immunology: Deficiencies & Disease

Immunology: Transplantation

Immunology: Clinical Correlates & Animations

Microbiology: General Microbiology

Microbiology: Bacteria

Microbiology: Viruses

4



Pharmacodynamics

Video 22m



+ Definitions and D-R Curves

Video 13m

+ Signaling Mechanisms

5



General Principles Quiz

Quiz 7m



+ Pharmacology General Principles Quiz

A patient experiencing parkinsonism secondary to her antipsychotic treatment regimen would be treated appropriately with which of the following?

- A. Atropine
- B. Benztropine
- C. Ipratropium
- D. Scopolamine
- E. Tropicamide

The sympathetic nervous system (SANS) is dominant over the parasympathetic nervous system (PANS) in which of the following instances of "dual innervation"?

- A. Anal sphincter
- B. AV node
- C. Gastrointestinal muscles
- D. Pupil
- E. Sweat glands

Ipratropium antagonizes the action of which of the following?

- A. Acetylcholine
- B. Epinephrine
- C. GABA
- D. Norepinephrine
- E. Serotonin

Esmolol is indicated for use in which of the following?

- A. Complete AV block
- B. Premature ventricular complexes
- C. Supraventricular tachycardia
- D. Ventricular fibrillation
- E. Wolff-Parkinson-White syndrome

The beta blockers have which of the following as part of their antiarrhythmic mechanism of action?

- A. Decrease cAMP levels
- B. Increase AV node activity
- C. Increase SA node activity
- D. Increase slope of phase 4 in AP pacemakers
- E. Inhibit the influx of sodium ions

	QUESTION	ORGAN SYSTEMS	DISCIPLINES	DIFFICULTY	TIME SPENT TESTING
✓	Question 1 A patient experiencing parkinsonism secondary to her antipsychotic treatment ...	General Principles	Pharmacology	Easy	01:04
✗	Question 2 The sympathetic nervous system (SANS) is dominant over the parasympathetic ...	General Principles	Pharmacology	Easy	01:28
✓	Question 3 Ipratropium antagonizes the action of which of the following? ...	Respiratory	Pharmacology	Easy	00:38
✓	Question 4 Esmolol is indicated for use in which of the following? ...	Cardiovascular	Pharmacology	Easy	🕒 01:38
✗	Question 5 The beta blockers have which of the following as part of their antiarrhythmic ...	Cardiovascular	Pharmacology	Easy	00:47

[< Back to Summary](#)

QUESTION 1

A patient experiencing parkinsonism secondary to her antipsychotic treatment regimen would be treated appropriately with which of the following?

- A. Atropine
You did not select. This answer is incorrect
- B. **Benztropine**
✓ **This answer is correct**
- C. Ipratropium
You did not select. This answer is incorrect
- D. Scopolamine
You did not select. This answer is incorrect
- E. Tropicamide
You did not select. This answer is incorrect

[HIDE EXPLANATION](#)[Hide explanation](#)[See explanation](#)

Detailed Guidance

[Send us feedback.](#)

Feedback

The correct answer is B. Both benzotropine and trihexyphenidyl are anticholinergics used to treat parkinsonism and other acute extrapyramidal symptoms induced by antipsychotics.

[Back to Study Plan](#)

Distribution

- Conditions affecting distribution include:
 - Drug + Protein** (Active, free) \longleftrightarrow **Drug-Protein** (Inactive)
 - **1st major type of drug interaction**
- Competition between drugs for plasma protein-binding sites, reducing the "free fraction," possibly enhancing the effects of other drugs.
Example: sulfonamides and bilirubin in a neonate
 - CV 1: warfarin + sulfonamides \rightarrow \uparrow warfarin effect
 - CV 2: sulfonamides + unconjugated bilirubin \rightarrow kernicterus and bilirubin encephalopathy

CHAPTERS

- 1. Chapter 1: Pharmacokinetics Absorption and Distribution
- 2. Absorption
- 3. Plasma Level Curves
- 4. Bioavailability
- 5. First-Pass Effect
- 6. Distribution
- 7. Special Barriers to Distribution
- 8. Apparent Volume of Distribution
- 9. Redistribution

Distribution

- The processes of distribution of a drug from systemic circulation to organs and tissues
- Conditions affecting distribution include:
 - Under normal conditions, protein-binding capacity is much larger than is drug concentration. Consequently, the free fraction is generally constant.
 - Many drugs bind to plasma proteins, with an equilibrium between bound and free molecules





STUDY PLAN

QBANK

OVERALL PERFORMANCE

SEARCH

< [Back to Study Plan Home](#)

Pharmacology General Principles Warmup

Completed: 05/28/2022 - 2:07 AM

[VIEW OVERALL PERFORMANCE](#)



40% INCORRECT
3/5 QUESTIONS

TOTAL QUESTIONS
5

TOTAL TIME
05m 35s

ANSWER CHANGES



Category Breakdown

Over Time

Immunology: Humoral & Cell-Mediated

Immunology: Diagnosis & Immunization

Immunology: Deficiencies & Disease

Immunology: Transplantation

Immunology: Clinical Correlates & Animations

Microbiology: General Microbiology

Microbiology: Bacteria

Microbiology: Viruses

Microbiology: Fungi

Microbiology: Parasitology

Microbiology: Clinical Infectious Disease

Microbiology: Comparative Microbiology

5



Video 22m

+ Definitions and D-R Curves

Video 13m


+ Signaling Mechanisms







General Principles Quiz

Quiz 7m

+ Pharmacology General Principles Quiz



Over Time 

	QUESTION	ORGAN SYSTEMS	DISCIPLINES	DIFFICULTY	TIME SPENT TESTING
	Question 1 Which of the drugs listed below signals through an intracellular receptor? ...	General Principles	Pharmacology	Easy	 02:37
	Question 2 The formation of nitric oxide, either endogenously or via drugs, is associated...	General Principles	Pharmacology	Easy	00:52
	Question 3 When insulin binds to its receptor, what cellular enzyme is activated? ...	General Principles	Pharmacology	Easy	00:40
	Question 4 Which drug activates the JAK-STAT signaling pathway? ...	General Principles	Pharmacology	Easy	00:47
	Question 5 The GABA A receptor in the CNS, which	General Principles	Pharmacology	Easy	00:54



Immunology: Transplantation

Immunology: Clinical Correlates & Animations

Microbiology: General Microbiology

Microbiology: Bacteria

Microbiology: Viruses

Microbiology: Fungi

Microbiology: Parasitology

Microbiology: Clinical Infectious Disease

Microbiology: Comparative Microbiology

Microbiology: Clinical Correlates & Animations

+ Unclassified Antibiotics and Antitubercular Drugs

Video 12m

+ Antifungal Agents

Video 27m

+ Antiviral Agents

Video 7m

+ Antiprotozoal Agents

Quiz 25m Timed

+ Antimicrobial Agents Quiz 1

Quiz 25m Timed

+ Antimicrobial Agents Quiz 2

Quiz 25m Timed

+ Antimicrobial Agents Quiz 3



Part 2: Integrated

Biochemistry

Molecular Biology

Genetics

Microbiology

Pharm Fundamentals

Behavioral Science

Ethics & Patient Safety

Biostat & Epidemiology

Cardiovascular: Physiology

Cardiovascular: Pathology

Cardiovascular: Pharmacology

Cardiovascular: Physiology

Cardiovascular: Pathology

Cardiovascular: Pharmacology

Respiratory: Physiology

Respiratory: Pathology

Respiratory: Pharmacology

Renal: Physiology

Renal: Pathology

Renal: Pharmacology

Gastrointestinal: Physiology

Gastrointestinal: Pathology

Gastrointestinal: Pharmacology

... Anatomy: Embryology & Histology

Anatomy: Gross Anatomy

Anatomy: Neuroscience

Anatomy: Clinical Correlates & Animations

Behavioral Science: Epidemiology & Biostats

Behavioral Science: Foundations

Patient Safety

Biochemistry: Foundations

Biochemistry: Metabolism

Biochemistry: Medical Genetics

Biochemistry: Clinical Correlates & Animations

1

▼ **Preview: An Overview of Respiratory Pharmacology**

PDF

+ Respiratory Essentials

A PDF that can be downloaded

2

▼ **Predict: Test Your Current Understanding**

Quiz 10m Timed

+ Respiratory Pharmacology Warmup Questions

3

▼ **Prepare: Review High Yield Topics**

Video 5m

+ Antihistamines

Video 9m

+ Drugs of Asthma

Video 3m

+ Treatment of Pulmonary Hypertension

4

▼ **Practice: Apply Your Knowledge in Qbank**

Link 15m

Biochemistry: Metabolism

Biochemistry: Medical Genetics

Biochemistry: Clinical Correlates & Animations

Immunology: The Immune System

Immunology: Development & Response

Immunology: Humoral & Cell-Mediated

Immunology: Diagnosis & Immunization

Immunology: Deficiencies & Disease

Immunology: Transplantation

Immunology: Clinical Correlates & Animations

Microbiology: General Microbiology

3

Prepare: Review High Yield Topics

Video 5m

+ Antihistamines

Video 9m

+ Drugs of Asthma

Video 3m

+ Treatment of Pulmonary Hypertension

4

Practice: Apply Your Knowledge in Qbank

Link 15m

+ Create a Step 1 Respiratory Pharmacology Quiz

5

Perform: Assess Your Mastery

Section Test 33m Timed

+ Respiratory Pharmacology Mastery Assessment

+

Perfect: Complete Recommendations Based on Your Performance

Teach Me More

Next Session →

Biochemistry: Metabolism

Biochemistry: Medical Genetics

Biochemistry: Clinical Correlates & Animations

Immunology: The Immune System

Immunology: Development & Response

Immunology: Humoral & Cell-Mediated

Immunology: Diagnosis & Immunization

Immunology: Deficiencies & Disease

Immunology: Transplantation

Immunology: Clinical Correlates & Animations

Microbiology: General Microbiology

3

Prepare: Review High Yield Topics

Video 5m

+ Antihistamines

Video 9m

+ Drugs of Asthma

Video 3m

+ Treatment of Pulmonary Hypertension

4

Practice: Apply Your Knowledge in Qbank

Link 15m

- Create a Step 1 Respiratory Pharmacology Quiz

Click the 'Take Me There' button to go back to your list of products. Once there, Step 1 QBank, then create a 10-question quiz. Select 'Respiratory' in the Organ System section and 'Pharmacology' in the Disciplines section. We recommend that you take it in Tutor-Mode, Untimed and with Unanswered Questions.

Once complete, please review your quiz.

[TAKE ME THERE](#)

[MARK COMPLETE](#)

5

Perform: Assess Your Mastery

Renal: Pathology

Renal: Pharmacology

Gastrointestinal: Physiology

Gastrointestinal: Pathology

Gastrointestinal: Pharmacology

Heme & Lymph: Immunology

Heme & Lymph: Pathology

Heme & Lymph: Pharmacology

Nervous System: General Principles

Nervous: Pathology

Nervous System: Pharmacology

Musculoskeletal: General

TAKE ME THERE

MARK COMPLETE

5

Perform: Assess Your Mastery

Section Test 33m Timed

- Respiratory Pharmacology Mastery Assessment

Diagnose and pinpoint any gaps in your understanding of the content.

START

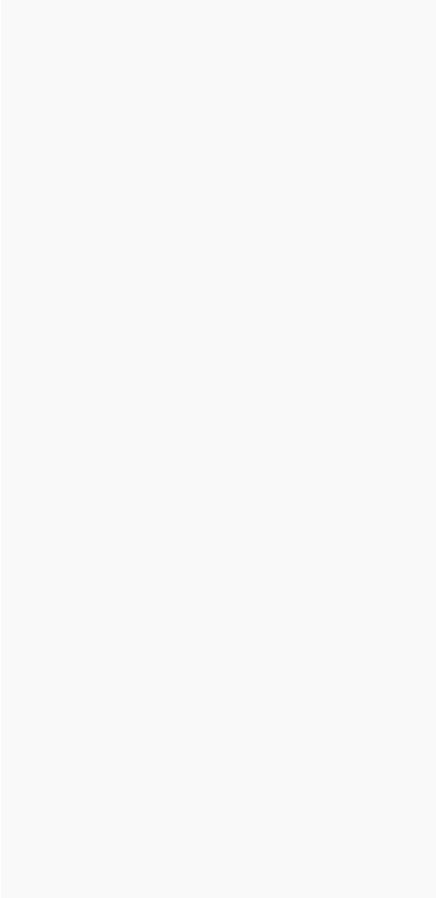
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Perfect: Complete Recommendations Based on Your Performance

Teach Me More

Next Session →

Renal Physiology



Welcome

+ Assignments Center

+ Part 1: Foundations

+ Part 2: Integrated

- Part 3: Assessments

Discipline Assessments

Simulated Exams

Welcome

+ Assignments Center

+ Part 1: Foundations

+ Part 2: Integrated

- **Part 3: Assessments**

Discipline Assessments

Simulated Exams

WELCOME TO

PART 3: ASSESSMENTS

Section Test 1h 15m Timed

+ Anatomy Assessment

Section Test 1h 15m Timed

+ Behavioral Science Assessment

Section Test 1h 15m Timed

+ Biochemistry Assessment

Section Test 30m Timed

+ Genetics Assessment

Section Test 1h 13m Timed

+ Immunology Assessment

Section Test 1h 15m Timed

+ Microbiology Assessment

Section Test 1h 15m Timed

+ Physiology Assessment

Step 1 Prep On Demand - Institutional

Welcome

+ Assignments Center

+ Part 1: Foundations

+ Part 2: Integrated

- **Part 3: Assessments**

Discipline Assessments

Simulated Exams

WELCOME TO PART 3: ASSESSMENTS

Full Length Test 8h 0m Timed

+ Simulated Exam 1

Full Length Test 8h 0m Timed

+ Simulated Exam 2

Qbank



Hi, Prof. Hanan, Welcome to Your Qbank!

What would you like to work on today?

Quiz me on:

^ Step 1 Organ Systems

All Step 1 Organ Systems ×

^ Step 1 Disciplines

All Step 1 Disciplines ×

^ QUESTION TYPE ?

☑ Step 1 Organ Systems ^

☑ Cardiovascular [267] v

☑ Endocrine [114] v

☑ Gastrointestinal [218] v

☑ General Principles [584]

☑ Hematologic-Lymphatic [135] v

☑ Multisystem [257] v

☑ Musculoskeletal [146] v





- Multisystem [0] ▾
- Musculoskeletal [0] ▾
- Nervous [0] ▾
- Renal/Urinary [0] ▾
- Reproductive [0] ▾
- Respiratory [11] ▴
 - Blood-gas barrier [21]
 - Bronchial tree [29]
 - Chest wall and respiratory muscles [3]
 - Pleurae [4]
 - Pulmonary circulation [11]

QUESTION TYPE ?

- Unused [11] Correct [0] Incorrect [0] Marked [0]

DIFFICULTY

- Easy [2] Medium [7] Hard [2]

QUIZ OPTIONS

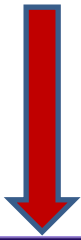
Tutor: On Timer: Off

Name your Quiz (Required)

Quiz - May 28, 2022 2:33 AM

of Questions (11 max) (Required)

10 / 11



- ☰
- 📅 Study Plan
- 🎯 Create Quiz**
- 🕒 Quiz History
- 📊 Overall Performance
- 📄 3D Animations



- ☑ Step 1 Organ Systems ^
- ☑ Cardiovascular [267] v
- ☑ Endocrine [114] v
- ☑ Gastrointestinal [218] v
- ☑ General Principles [584]
- ☑ Hematologic-Lymphatic [135] v
- ☑ Multisystem [257] v
- ☑ Musculoskeletal [146] v

Hi, Prof. Hanan, Welcome to Your Qbank!

What would you like to work on today?

Quiz me on:

^ Step 1 Organ Systems

All Step 1 Organ Systems ✕

^ Step 1 Disciplines

All Step 1 Disciplines ✕

^ QUESTION TYPE ?

A newborn is being fed soon after birth at the hospital. Immediately after feeding, he vomits up the formula. A nasogastric tube is placed and resistance is felt after several centimeters. abnormality of development of which of the following?

- A. Bronchial buds
- B. Costodiaphragmatic recesses
- C. Costomediastinal recess
- D. Laryngotracheal diverticulum
- E. Tracheoesophageal septum

Overall Performance

Performance by Recent Test

Quiz - May 28, 2022 2:43 AM

May 28, 2022 2:45 AM

Tutor On - Timer Off

[REVIEW](#)

0% Correct

10 Questions left to review

All Quizzes:

Quiz - May 28, 2022 2:33 AM

STEP 1 ORGAN SYSTEMS

STEP 1 DISCIPLINES

TOPICS

PERCENTAGE

OF QUESTIONS

QUESTIONS CORRECT

Cardiovascular ▾

50%

2

1

- ☰
- 📅 Study Plan
- 🎯 Create Quiz
- 🕒 Quiz History
- 📊 Overall Performance
- 📺 3D Animations

Explore 3D

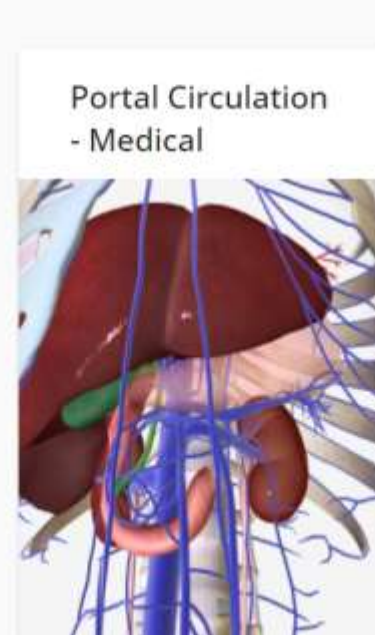
Click on any anatomy, physiology, or pathology topic below to explore it in interactive 3D. Rotate and zoom in to view anatomy structure to learn more, and use the built-in exploration tools to hide, fade, or isolate structures.



View



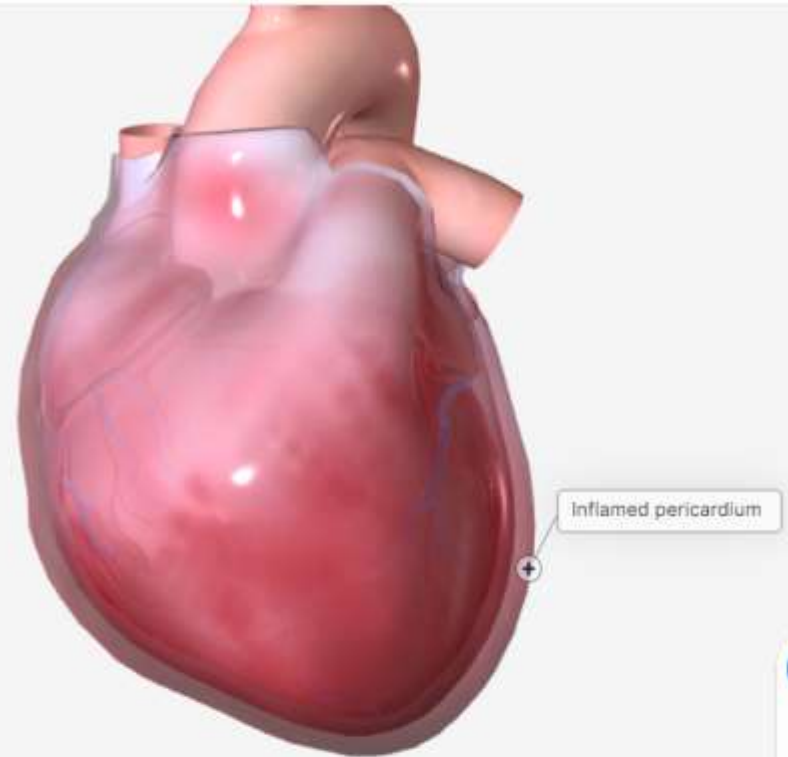
View



View



by viral infections. Pericarditis usually presents with chest pain worsened by lying down, coughing or deep inspiration and relieved by sitting up and leaning forward. The characteristic friction rub of this pathology is a scratchy, high pitched sound best heard at at forced-end expiration with the diaphragm of the stethoscope placed at the left sternal border.



Inflamed pericardium



**thanks for
listening!**