

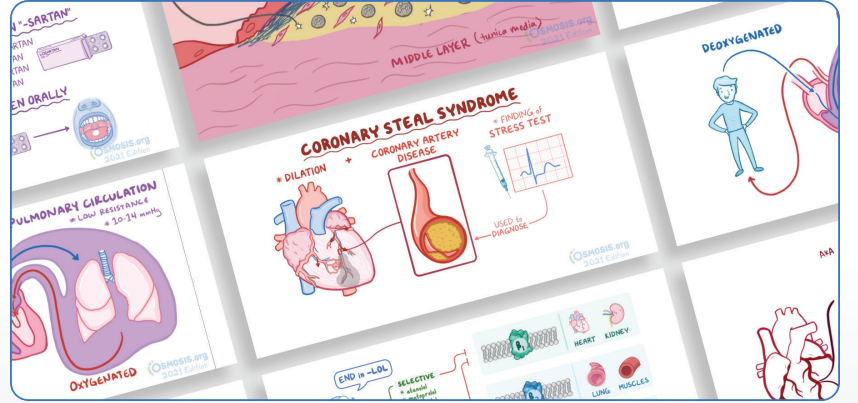
Tıp Eğitiminizi Videolar Aracılığıyla Destekleyin

Osmosis içeriğindeki ders videoları, tıp fakültesi öğrencilerini destekleyerek eğitimlerini daha etkili ve verimli hale getirir.

Öğrenmeyi ve öğretmeyi destekleyen animasyonlu videolar ve değerlendirme araçlarına erişim

Temel Bilimler
Organ Sistemleri
Klinik Staj

Klinik Öncesi ve Klinik Pratikte Karşılaşılan Sorular



İhtiyacınız olan bilgiler
parmaklarınızın ucunda

Students can learn visually
and control what comes next

Myocardial infarction

Foundational Sciences > Pathology > Cardiovascular system > Vascular disorders > Coronary artery disease

Also appears in

838,694 views Add to playlist

Videos Notes Transcript

Pathology

Cardiovascular system

Select all

Vascular disorders

- Arterial disease
- Angina pectoris
- Stable angina
- Unstable angina
- Myocardial infarction
- Prinzmetal angina
- Coronary steal syndrome
- Peripheral artery disease
- Subclavian steal syndrome

Preclinical & clinical Practice Questions

Assessments

Myocardial infarction

Flashcards 21 / 26 complete

Step 1 Questions Retake

High Yield Notes

Print 5 pages

8:46 / 12:39

0-24 hours

1-3 days

3-14 days

after 2 weeks

COMPLICATIONS

- Arrhythmias
 - ↳ disrupted signals
- Cardogenic shock
 - ↳ can't pump enough blood

COMPLICATIONS

- Pericarditis
 - ↳ Inflammation of pericardium

COMPLICATIONS

- Myocardial rupture

COMPLICATIONS

- Granulation tissue (yellow + soft)
- ↳ macrophages invade

tissue affected

inflamed & invaded by neutrophils

Video chapters allow for bite-sized learning

Quickly scan video transcripts to sync with learning objectives

Content accessible to all via closed captioning

Scan videos at 2x speed for lecture alignment

Osmosis, Tıp Fakültelerini Nasıl Destekliyor?

Analysis
Monitor and track progress

Search for a cohort...
Sort alphabetical A-Z | Demo Cohort >
Student Members: 75
Active in the last 30 days: 40

Overview Data | Student Reports | Members

Playlist: Cardio Foundations | Export Playlist CSV

Total Topics: 5 | Student Video Completion: 50/102 | Question Completion: 2%

Topics: Students

Search: Cardiovascular system anatomy and physiology

Cardiovascular system anatomy and physiology

ECG basics: 6/102
Blood components: 2/102
Cardiac cycle: 1/102
Cardiomyopathies: Clinical practice: 0/102

Spot knowledge gaps early

Flashcards: 10 | Quiz Completion: 6% | Accuracy (avg): 92% | Confidence: High

Students	First Attempt Accuracy Completion	Average Confidence	First Attempt Date
Student 29	10/10	High	01/02/2021
Student 31	10/10	High	06/05/2020
Student 60	10/10	High	07/18/2020

See which students are actively learning

Track individual student performance

Öğrenci Kullanım İstatistiklerine Erişim

Tıp Fakültesi korkutucu olabilir fakat Osmosis bu konuda öğrencilere oldukça yardım ediyor. Tıp öğrencilerinin ihtiyacı olan flashcardlar, soru-cevaplar, not alma uygulaması gibi bütün kaynaklara Osmosis üzerinden erişebilirsiniz.

Anthony Recidoro
Pacific Northwest University of Health Sciences

Tıp Eğitimi Müfredatlarıyla Uyumlu, Klinik Öncesi ve Klinik Çalışmalarına Hazırlık

Okulumun, Osmosis'i biz Tıp Fakültesi öğrencilerine sağlamasına çok sevdim! Ders notları almak için kullanmayı seviyorum ve otomatik doldurulan bilgi kartları, yüksek verimli ders hazırlık videoları, Step çalışma programı ve Picmonic Bağlantıları gibi özellikler harika.

Anne Darrow
University of Illinois at Chicago

Osmosis notes for out-of-class studying

Acute coronary syndromes Notes

Contents: Myocardial infarction, Prinzmetal's angina, Unstable angina

Osmosis High-Yield Notes

This Osmosis High-Yield Note provides an overview of Acute coronary syndromes essentials. All Osmosis Notes are clearly laid-out and contain striking images, tables, and diagrams to help visual learners understand complex topics quickly and efficiently. Find more information about Acute coronary syndromes: Myocardial infarction, Prinzmetal's angina, Unstable angina

SIGNS & SYMPTOMS

- Acute chest pain lasting > 20 min, radiating to arm(s)
- Uncharacteristic diaphoresis (profuse) pain, dizziness, fatigue, diarrhoea, and/or nausea
- Feeling of indigestion

DIAGNOSIS

- Usually detected with diagnostic laboratory work for cardiac enzymes
- Troponin I/spectrin T most specific, sensitive markers (no upper limit)
- cTnI/cTnT can detect infarction after initial 48 hours (increased) 4 hrs after infarction, peak at 24 hrs, return to normal after 48 hrs

OTHER DIAGNOSTICS

- ECG
- Can confirm diagnosis, but sensitive, not accurate after 6 hours
- < 20 days CI: troponin elevation
- < 24 hrs: cTnI/cTnT
- < 24 hrs: troponin I/spectrin T
- < 24 hrs: troponin I/spectrin T

TREATMENT

- STEMI first priority: emergent reperfusion: reperfusion coronary intervention (e.g. catheterization/angioplasty)
- Very time sensitive
- NSTEMI: aspirin + clopidogrel or prasugrel (aspirin + ticagrelor) (not thrombolysis) < 1 hrs time sensitive (within 24 hrs)
- Control symptoms with morphine and nitroglycerin

LAB RESULTS

- Troponin, aspirin + clopidogrel (or prasugrel) (aspirin + ticagrelor) (not thrombolysis) < 1 hrs time sensitive (within 24 hrs)
- Control symptoms with morphine and nitroglycerin

PRINZMETAL'S ANGINA

Progress: 1 answered

Repeat selected items

Group: New, ALL, Incorrect, Not answered today

A 56-year-old woman comes to the clinic because of a long-standing heart murmur. An opening snap followed by a mid-diastolic rumble is heard on auscultation. Type II hypersensitivity to a virulence factor caused this patient's valvular disease. Which of the following is the most likely pathogenic activity of this virulence factor?

Elimination tool

A. ADP-ribosylates Gi thereby increasing cAMP
Show explanation 9%

The toxin of *Bordetella pertussis* ADP-ribosylates Gi, inactivating it and thereby increasing cAMP. This leads to the characteristic symptom whooping cough.

B. Activates T cells to release interferon-gamma and IL-2
Show explanation 45%

Staphylococcus aureus makes toxic shock syndrome toxin-1, which is a superantigen that activates T cells to release interferon-gamma and IL 2.

C. Binds with factor H to decrease complement activation
Show explanation 22%

D. Causes an exfoliative rash
Show explanation 18%

Staphylococcus aureus also makes exfoliative toxins A and B, which cause scalded-skin syndrome, a condition seen most often in infants and young children.

Major takeaway
Rheumatic fever is an inflammatory disease that typically develops two to four weeks after a throat infection with *Streptococcus pyogenes*. A type II hypersensitivity reaction to the M protein damages the heart and valves. M protein binds with factor H to decrease complement activation.

Main explanation
The vignette describes the murmur of mitral stenosis, a common valvular disease seen in chronic rheumatic fever. Rheumatic fever is an inflammatory disease that can involve the heart, joints, skin, and brain. The disease typically develops two to four weeks after a throat infection with *Streptococcus pyogenes*. Then a type II hypersensitivity reaction to the M protein damages the heart and valves. M protein binds with factor H to decrease complement activation. Signs and symptoms include fever, multiple painful joints, involuntary muscle movements, and a non-itchy rash known as erythema marginatum.

Detailed explanations (with links) for each possible answer

Help students comprehend, not just memorize

Detailed explanations (with links) for each possible answer

Flipped Classroom Kaynaklarına Erişim

İhtiyacım olan tüm bilgileri Osmosis içinden erişebilmem mükemmel! Ayrıca hem günlük çalışmalarım hem de uygulamaya sınavlarım için Step 1 planlayıcıyı çok seviyorum.

Dave Korneluk
American University of the Caribbean

Assign playlists as pre-work

Playlists

+ New Playlist

My Playlists

Cardio Foundations
Ronal Example
ECG basics
Inflammation
GI Basics
Antiarrhythmics
SPRACCO Cipramax
Endocrine
Nephrology
Watch later
Coagulation
Cardio Surveillance
Example for analytics
Test Playlist
Recovering Psychiatry
Carbohydrate metabolism
2023 First Upper
Wayne
7/18/21
MIBS 2022
New vascular
LCOM TEST
Showing Completion
Heart related issues v2

Cardio Foundations
Vivien = 5 videos + 52:38
Play all | Quiz all | Add

Cardiovascular system anatomy and physiology
ECG basics
Cardiomyopathies: Clinical practice
Cardiac cycle
Blood components