

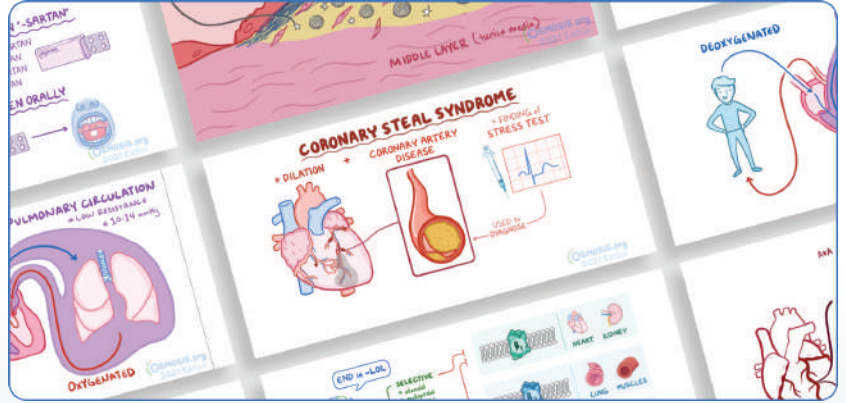
# Tıp Eğitiminizi Videolar Aracılığıyla Destekleyin

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

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

Quickly scan video transcripts to sync with learning objectives

Content accessible to all via closed captioning

Scan videos at 2x speed for lecture alignment

Video chapters allow for bite-sized learning

Complications

- Arrhythmias  
↳ disrupted signals
- Cardiogenic Shock  
↳ can't pump enough blood

0-24 hours

1-3 days

3-14 days

after 2 weeks

Granulation tissue (yellow + soft)

macrophages invade

inflamed  
↳ invaded by neutrophils

tissue affected

## Osmosis, Tıp Fakültelerini Nasıl Destekliyor?

**Analysis**  
Monitor and track progress.

Search for a content...

Sort alphabetical A-Z

**Playlist** Cardio Foundations

Export Playlist CSV

Data refresh rate

Total Topics 5

Total Questions 7

Student Video Completion 50/102

Question Completion 2%

Topics Students

Search

Cardiovascular system anatomy and physiology 7/102

ECG basics 6/102

Blood components 2/102

Cardiac cycle 1/102

Cardiomyopathies: Clinical practice 0/102

Cardiovascular system anatomy and physiology

Flashcards

Flashcards 10

Quiz Completion 6%

Accuracy (avg) 92%

Confidence High

Students

First Attempt Accuracy Completion

Average Confidence

First Attempt Date

Student 29

Student 31

Student 60

01/02/2021

06/05/2020

07/18/2020

Spot knowledge gaps early

## Öğrenci Kullanım İstatistiklerine Erişim

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

**Anthony Recidoro**  
Pacific Northwest University of Health Sciences

Help students comprehend,  
not just memorize

**Tıp Eğitimi Müfredatlarıyla  
Uyumlu, Klinik Öncesi ve  
Klinik Çalışmalarına Hazırlık**

Okulunun, Osmosis'i biz Tıp Fakültesi öğrencilerine sağlamasına çok sevindim! 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

1 of 10

Next

Settings

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 evening snap followed by a mid-diastolic murmur is heard on auscultation. Type II hypersensitivity to a valvular factor caused this patient's valvular disease. Which of the following is the most likely pathogenic activity of this valvular factor?

Elimination tool

☐ A. ADP-ribosylates G<sub>i</sub> thereby increasing cAMP

☐ B. Activates T cells to release interferon-gamma and IL-2

☒ C. Binds with factor H to decrease complement activation

☐ D. Causes an exfoliative rash

93%

45%

22%

18%

Show explanation

The toxin of *Staphylococcus aureus* ADP-ribosylates G<sub>i</sub>, inactivating it and thereby increasing cAMP. This leads to the characteristic symptom whooping cough.

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

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

**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.

## Acute coronary syndromes Notes

### Contents

#### Myocardial infarction

#### Prinzmetal's angina

#### Unstable angina

### Common High-Yield Notes

This disease might/may/maybe possible as overview of Acute coronary syndromes is presented. All Coronary arteries can be at risk and certain striking images, tables, and figures to help aid. Issues are covered in various topics quickly and efficiently. Find more information about Acute coronary syndromes.

#### Myocardial infarction

#### Unstable angina

### SIGNS & SYMPTOMS

- Atypical chest pain lasting > 20 min, radiating to other parts
- 1st presentation could be atypical chest pain, shortness of breath, nausea
- History of chest pain, angina
- History of chest pain, angina

### DIAGNOSIS

#### LAB TESTS

- Myocardial infarction with diagnostic sensitivity over 90%
- Troponin I sensitivity 7 and specificity 90%
- Troponin T sensitivity 10 and specificity 90%
- CK-MB sensitivity 10 and specificity 90%
- CK-MB sensitivity 10 and specificity 90%
- CK-MB sensitivity 10 and specificity 90%

#### OTHER DIAGNOSTICS

#### ECG

- ST-T wave changes (ST segment depression and T wave inversion)
- ST-T wave changes (ST segment depression and T wave inversion)
- ST-T wave changes (ST segment depression and T wave inversion)
- ST-T wave changes (ST segment depression and T wave inversion)
- ST-T wave changes (ST segment depression and T wave inversion)

**Figure 12** ECG tracing showing ST segment depression and T wave inversion, characteristic of myocardial infarction.

### TREATMENT

- 5000 mg aspirin (aspirin) immediately
- 100 mg aspirin (aspirin) immediately
- 100 mg aspirin (aspirin) immediately
- 100 mg aspirin (aspirin) immediately
- 100 mg aspirin (aspirin) immediately

#### MANAGEMENT

- 100 mg aspirin (aspirin) immediately
- 100 mg aspirin (aspirin) immediately
- 100 mg aspirin (aspirin) immediately

#### HEART VENT

**Figure 13** Microscopic image of heart tissue showing myocardial infarction.

#### MYOCARDIAL INFARCTION

**Figure 14** Microscopic image of heart tissue showing myocardial infarction.

CONCISEMED 4

PRINZMETAL'S ANGINA

Playlists

+ New Playlist

**My Playlists**

- Cardio Foundations
- Remed Example
- ECG Basics
- Infermiology
- IBBasis
- Asthma/Hypertension
- SPIRACED Cognition
- Endocrine
- Nephrology
- Walden
- Congestive
- Gastro-Survivalism
- Example for studyKit
- Trial Playlist
- Recovering Psychology
- Cardiovascular Medicine
- JOTI Post Upper Wayway
- P1621
- M2T\_2022
- New vascular
- LCCM TISS
- Showing Consultation
- Heart-related issues <2

### Cardio Foundations 🔍

Vikram • 5 videos • \$2.38

▶ Play all
Quiz all
+ Add

|  |                                              |
|--|----------------------------------------------|
|  | Cardiovascular system anatomy and physiology |
|  | ECG basics                                   |
|  | Cardiopulmonary Clinical practice            |
|  | Cardiac cycle                                |
|  | Blood components                             |

### Assign playlists as pre-work

## Flipped Classroom Kaynaklarına Erişim

İhtiyacım olan tüm bilgilere 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



---

# Teaching and Learning with Osmosis

Everyone who cares for someone will learn by Osmosis



# Öğrencilerin karşılaştığı zorluklar: kavrama ve akılda tutma

- Öğrenciler karmaşık bilgi ve içerikler ile bunalmış olabilirler.
- Ve öğrendiklerinin çoğunu unutabilirler.



# Akademisyenlerin karşılaştığı zorluklar

1 Akademik İşler (ders planlama, literatür takibi, öğretme, sınav değerlendirme)



2 Klinik Yükümlülükler



3 Araştırmalar



# Osmosis nasıl yardımcı olur?



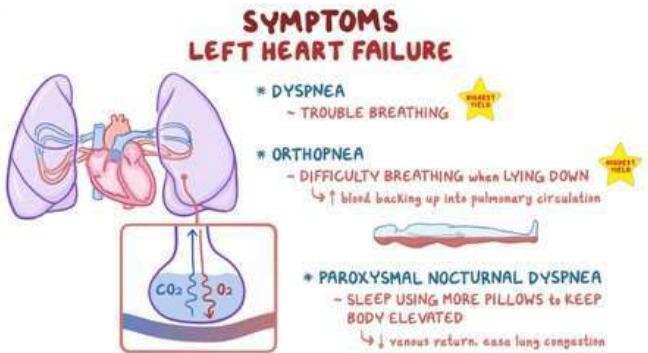
# Öğrencilerin öğrendiklerini pekiştirin ve netleştirin

## Heart failure: Pathology review

Foundational Sciences > Pathology > Cardiovascular system > Cardiovascular system pathology review  
Also appears in

33,792 views

CASE STUDY  
PATHOLOGY  
SYSTOLIC HF  
DIASTOLIC HF  
LEFT HF  
RIGHT HF  
TREATMENT  
REVIEW  
SUMMARY



OSMOSIS.org  
2021 Edition

## 1,800+ animasyonlu video

- Temel bilimler ve hastalık videoları
- Vaka bazlı patoloji inceleme videoları
- Rotasyon için klinik uygulama videoları

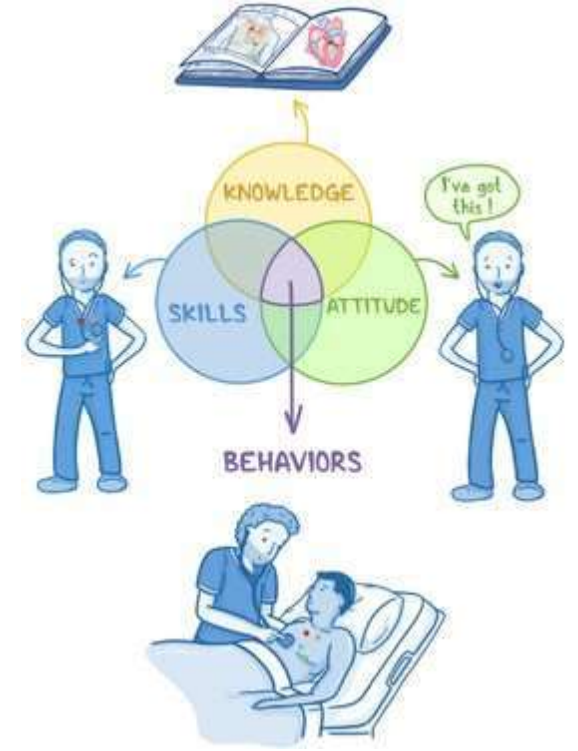
## Değerlendirme araçları

- 8,300+ sınav tipi soru
- Akıllı aralıklı tekrarlar özelliğine sahip
- 16,000+ flashcards (bilgi kartları)

## Öğrenme bilimi üzerine kurulmuş içerik

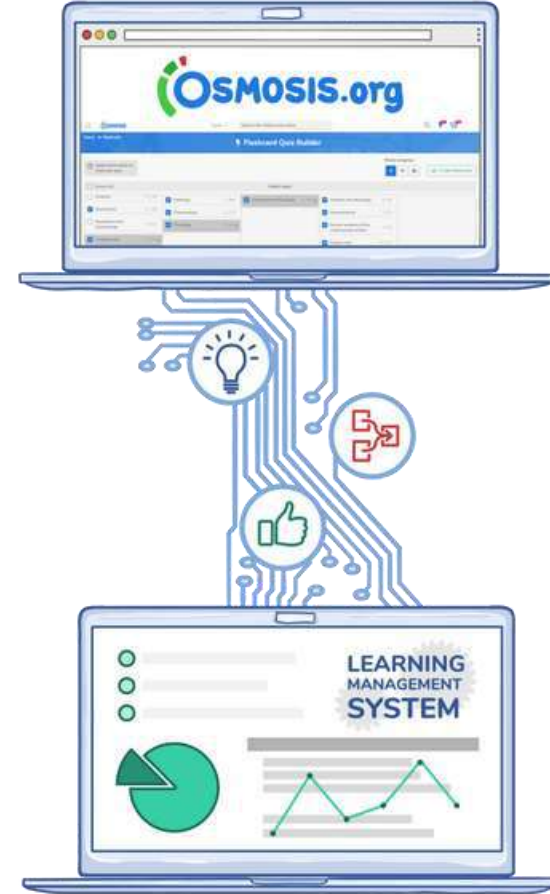
Osmosis, öğrenme bilimini kullanarak öğrencilerin daha etkili ve verimli bir şekilde öğrenmelerine yardımcı olur:

- **İçeriği parçalara bölme ve içerik tasarımı**, bilişsel yükü azaltır ve şemaların geliştirilmesini destekler
- **Flashcardlar ile aralıklı tekrar**, öğrencilerin bilgileri daha uzun süre akıllarında tutmalarına yardımcı olur
- **Test etkisi**, Soru-Cevap alıştırmaları ile sınav performansını artırır
- **Öğrenme bilimi videoları**, öğrencilere öğrenme bilimini öğretir



## Osmosis öğretmeyi destekler

- Temel bilim kavramlarını klinik senaryolara bağlayın.
- Öğrencileri dersten önce hazırlayın ve zor konuları daha sonra netleştirin.
- Öğrenci katılımını ve performansını keşfedin
- Risk altındaki öğrencileri belirlemek için bilgi eksikliklerini belirleyin.



Total Topics 3  
Total Questions 28

Student Video Completion  
11/102

Question Completion ①  
6%

Topics Students

Search

Search



## Angina pectoris

Cardiovascular → Pathology: Ischemic injury

Title Student Completion

Videos and Notes

Questions

Flashcards

Export CSV

Myocardial infarction 12/102

Angina pectoris Angina pectoris

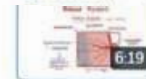
ACE inhibitors, ARBs and diuretics ACE inhibitors, ARBs and diuretics

Title Student Completion

Myocardial infarction 5/102

Angina pectoris 5/102

ACE inhibitors, ARBs and diuretics 6/102



## Angina pectoris

Cardiovascular → Pathology: Ischemic injury

Videos and Notes

Questions

Flashcards

Export CSV

Flashcards ①  
6

Quiz Completion  
5%

Accuracy (avg)  
73%

Confidence ①  
Medium

Students

Accuracy (first attempt) ▾

Average Confidence

First Attempt Date

Student 5

6/6

10/10/2020

Student 20

6/6

10/10/2020

Student 44

6/6

10/11/2020

1059823

6/6

02/16/2020

Student 105

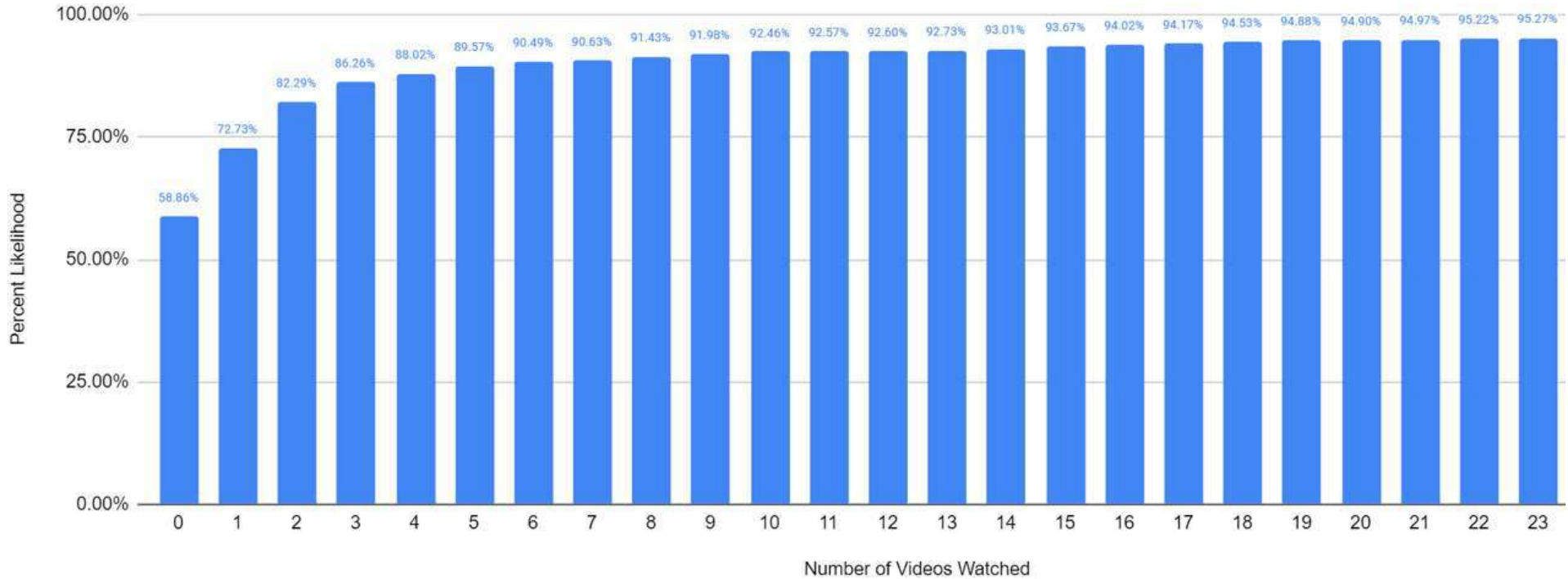
6/6

03/05/2020



## Öğrenciler Osmosis ile etkileşime girmektedir

Osmosis içeriğinin ortalama video tamamlanma oranı %83,6'dır. Bir kullanıcı 5 video izlediğinde, 6. videoyu izleme olasılığı % 90'dır.



# Öğrencilerin görüşleri



“The osmosis videos are **great to supplement the lectures!** They help me **get a better understanding of material** during my first pass, and I also use them to review bigger concepts when **studying before exams**. I would **highly recommend Osmosis** to everyone....”



“It was great and super helpful! **Stress relieving to have a great resource especially for visual learners**”



“I regularly use [Osmosis] videos to help me **prepare for exams** especially their pathology review videos.”



“I would watch the Osmosis videos before first passing the lectures and this **made a tremendous difference in initial/foundational understanding of the material.**”



“It really **helped me understand the content better** and I genuinely believe I **wouldn't have succeeded without it!**”



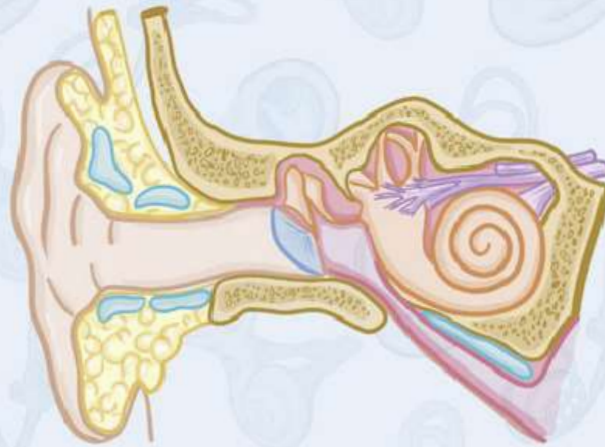
“This was my number one resource when I **did not understand a topic adequately in lecture material.**”



# ONLINE DEMO



# THANK YOU!

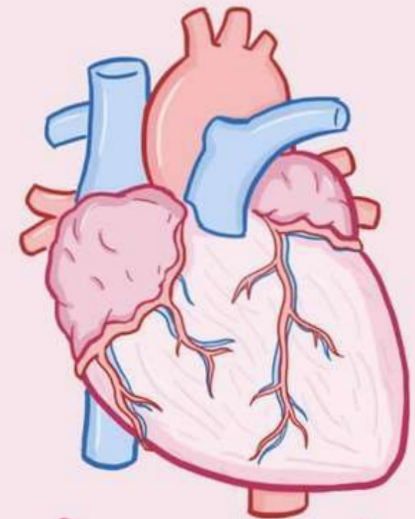


## THANKS FOR LISTENING

 [OSMOSIS.org/spreadjoy](https://osmosis.org/spreadjoy)

# THANK YOU

from the



## BOTTOM of my HEART