Osmosis

from Elsevier

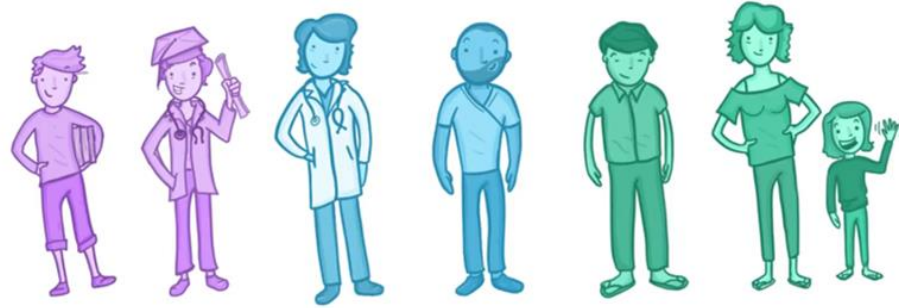# Teaching and learning with Osmosis

Everyone who cares for someone will learn by Osmosis

~ VISION ~
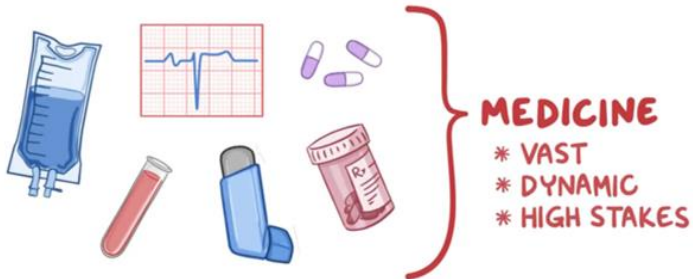EVERYONE who CARES for SOMEONE will LEARN by OSMOSIS

from Elsevier

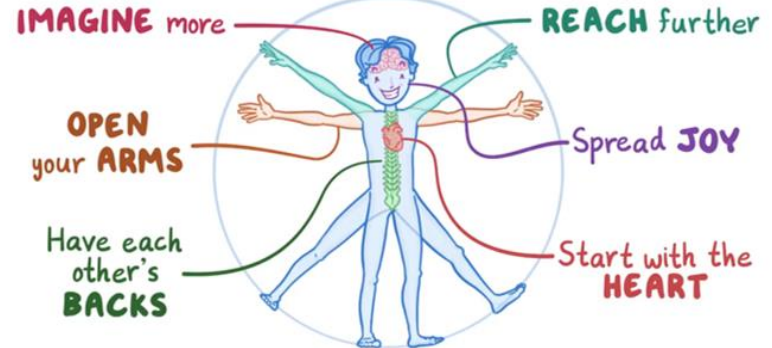~ MISSION ~
EMPOWER CLINICIANS and CAREGIVERS with the BEST LEARNING EXPERIENCE POSSIBLE

MEDICINE
* VAST
* DYNAMIC
* HIGH STAKES

~ VALUES ~
IMAGINE more
REACH further
OPEN your ARMS
Spread JOY
Have each other's BACKS
Start with the HEART

Let's get visual

A quick Osmosis overview

Designed to enhance learning and clinical reasoning

Students learn visually and control what comes next

Bite-sized whiteboard-style videos

Content accessible via closed captioning

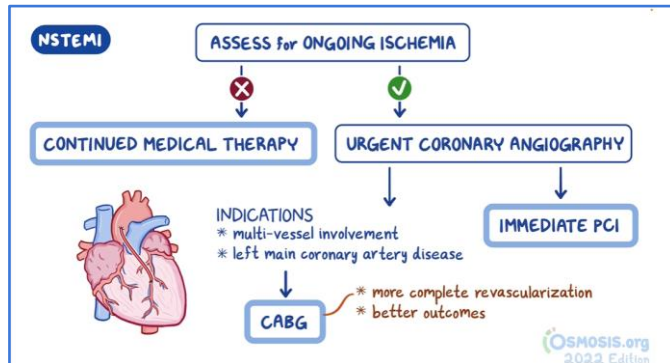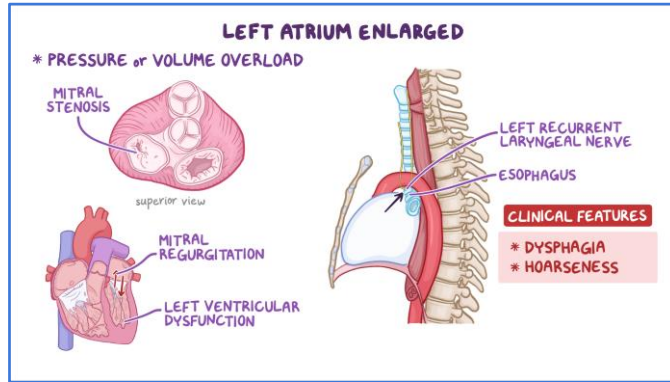**Clinical decision-making trees**

Linked USMLE®-style assessment items

Clinical Sciences video learning objectives to keep students on track

Externally-linked evidence-based clinical guidelines

Speed controls for efficient consumption

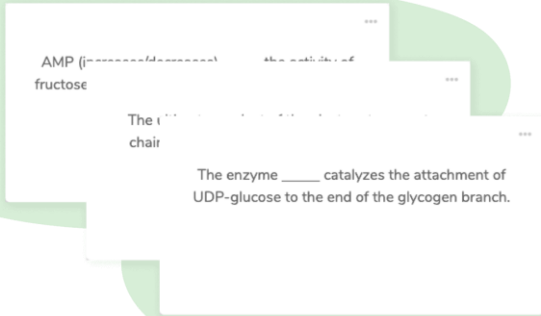# Engaging videos built on evidence-based principles

Whiteboard-style videos simplify complex medical concepts

- **Basic Sciences** videos for primary learning and clarification including case-based pathology review
- **Clinical Sciences** videos based on the latest evidence-based guidelines and U.S. national clerkship curricula for the first-time clinical learner

Linked assessment items

- **Flashcards** with intelligent spaced repetition
- **USMLE®-style MCQ's**

Multimodal content

- **High-yield notes** with full-color images and tables
- **Clinical decision-making trees**
- Externally-linked clinical **evidenced-based guidelines**

Track video assignment completion

Cardio 112020 ⌄

Total Topics	**3**	Student Video Completion	Question Completion
Total Questions	**29**	**12**/102	**53%**

Topics   Students

Topics

🔍 Search

Title	Student Completion ⌄
Myocardial infarction	97/102
Angina pectoris	91/102
ACE inhibitors, ARBs and dir...	13/102

Myocardial infarction
12:40
Cardiovascular → Pathology: Ischemic injury

Videos   Questions

Students watched this video
97/102

Students	Completion % ⌄	Views	Date Watched
Student 202	100%	24	3/8/2020
Student 14	100%	6	2/23/2020
Student 15	100%	6	3/4/2020
Student 31	100%	11	2/22/2020
Student 85	100%	2	2/23/2020
Student 88	100%	15	3/1/2020

from Elsevier

Get early signals about struggling learners

Myocardial infarction

Also appears in ⌄

Videos and Notes	Questions	Flashcards		**Export CSV**

Questions ⓘ	Quiz Completion	Accuracy (avg)	Confidence ⓘ
18	4%	49%	Low

▦ Manage columns ⌄

Students	Accuracy First Attempt	Latest Attempt ⓘ	Confidence First Attempt	Latest Attempt ⓘ	Date First Attempt	Latest Attem
Student 20	15/18	15/18			05/08/2021	06/22/2021
Student 53	14/18	14/18			06/27/2021	06/27/2021
Student 61	12/18	12/18			06/27/2021	06/27/2021

from Elsevier

- Interpersonal communication skills
- Learning science
- Self-care
- Professionalism
- Raise the Line Podcast

PROBLEM- BASED LEARNING (PBL)

COMPLEX REAL-LIFE PROBLEM

COLLABORATIVE APPROACH
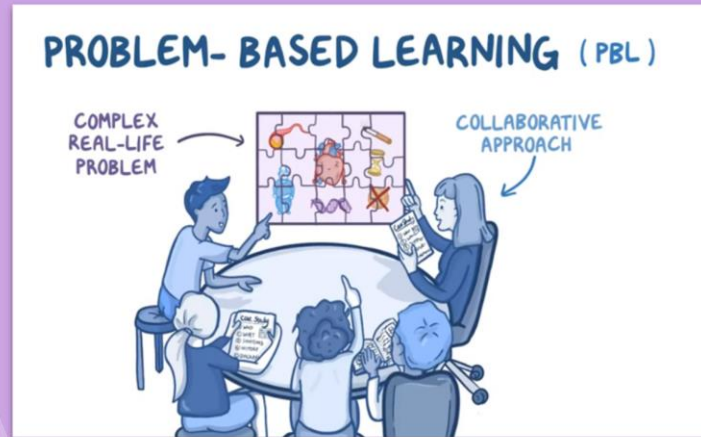
Mobile app to take learning on the go
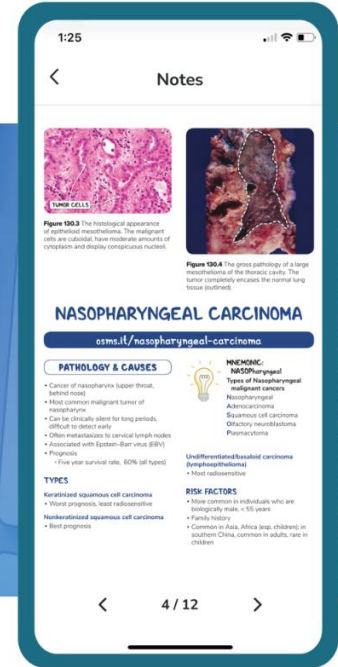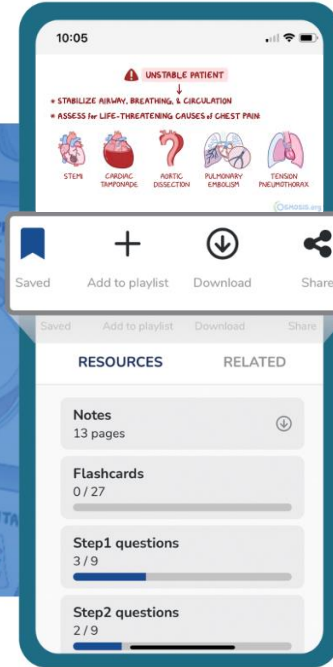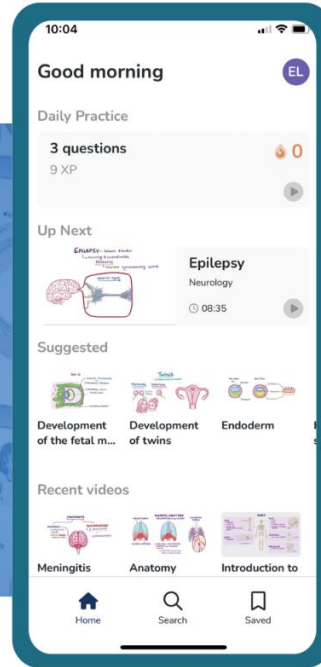
Supporting educational innovation with Osmosis

Built on evidence-based learning principles

- **Content chunking and design** based on established multimedia design principles reduces cognitive load and promotes the development of schemas
- **Spaced repetition** with flashcards helps students retain information longer
- **Testing effect** improves exam-day performance with Q&A practice
- **Learning science videos** teach students the science of learning
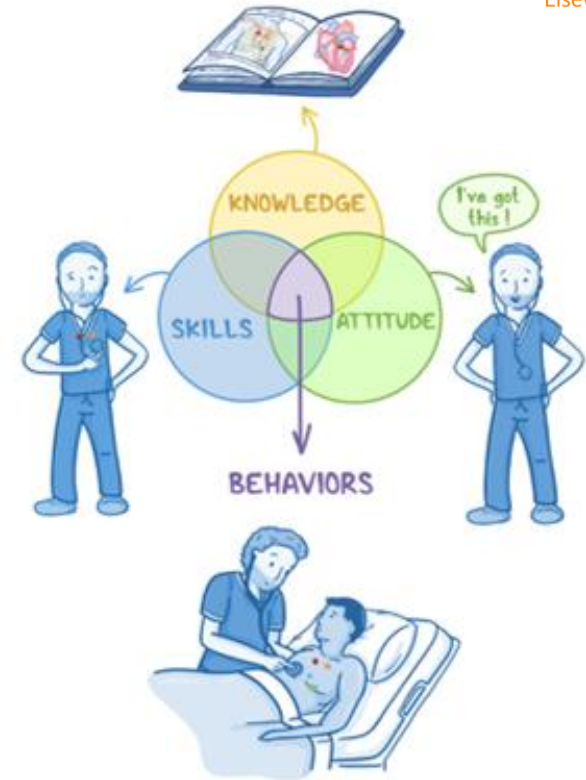
Students engage with Osmosis

Osmosis content has an 83.6% average video completion rate. Once a user has watched 5 videos, their likelihood of watching a 6th is 90%.

Given that a User has Watched X Videos, Likelihood the User will Watch X+1
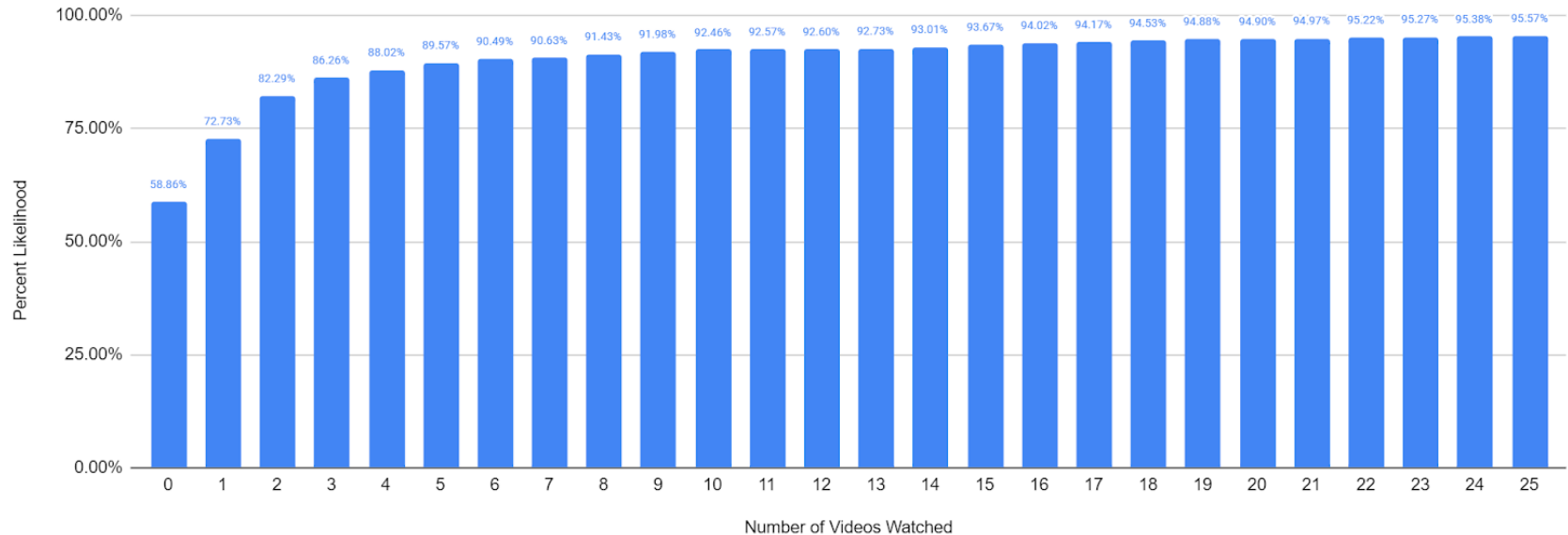
Osmosis flexes to fit your curriculum

6. **Flipped Classroom**: replace lecture and/or prime students for active learning sessions with assigned videos

5. **Blended Learning**: Curate playlists as supplementary resources to accompany F2F sessions or level the playing field
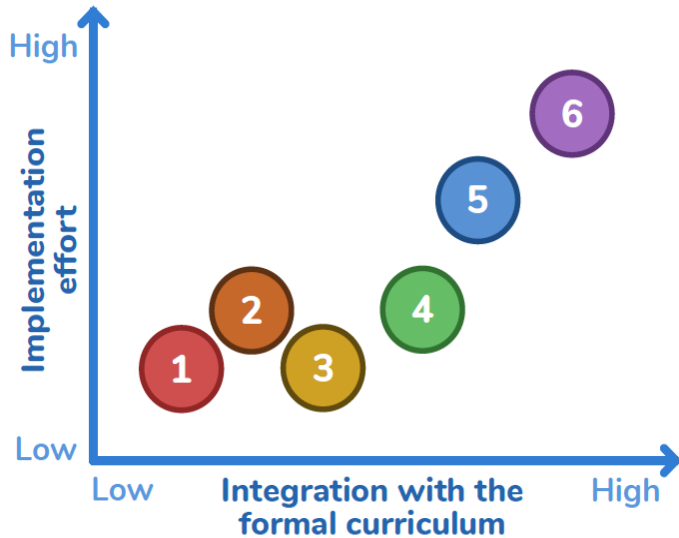
4. **Provide prescriptive support**

3. **SDL**: Encourage continuous low-stakes assessment for learning

2. **Library access**

1: **Student-driven usage**

How do partner programs use Osmosis?

- Lecture supplements and leveling student knowledge pre-lecture: [NYU Grossman School of Medicine](#), [University of Toledo's College of Medicine and Life Sciences](#)

- Flipped classroom development: [A.T. Still University Physicians Assistant Program](#), [University of the Pacific's Arthur A. Dugoni School of Dentistry](#))

- Active learning encouragement: [A.T. Still University Osteopathic Medicine Program](#), [Anáhuac University School of Medicine](#)

- Supporting faculty time: [The University of Texas Rio Grande Valley's Physician Assistant Program](#), [Kent and Medway Medical School's library](#)

- Customizable curriculum integration: [St. Scholastica's Physician Assistant program](#), [NYU Grossman School of Medicine](#)

- Early course correction and remediation: [University of Pikeville College of Osteopathic Medicine](#)

To continue the conversation, please reach out to:
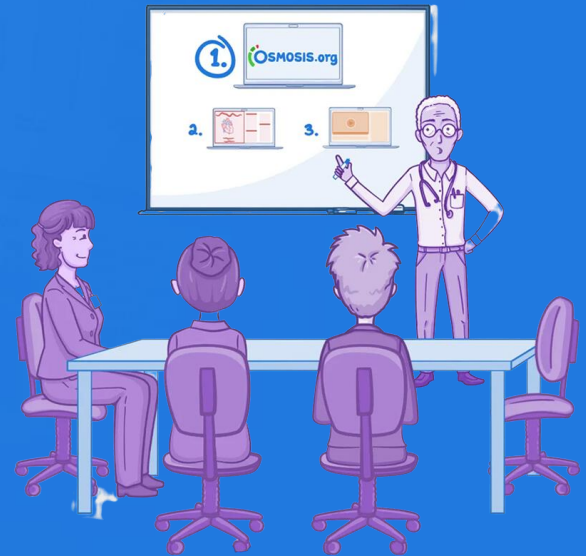
Account Executive
NAME
EMAIL

If you need further support we are always happy to help!

Academic Success Manager
NAME
EMAIL

Let's take a peek at Osmosis