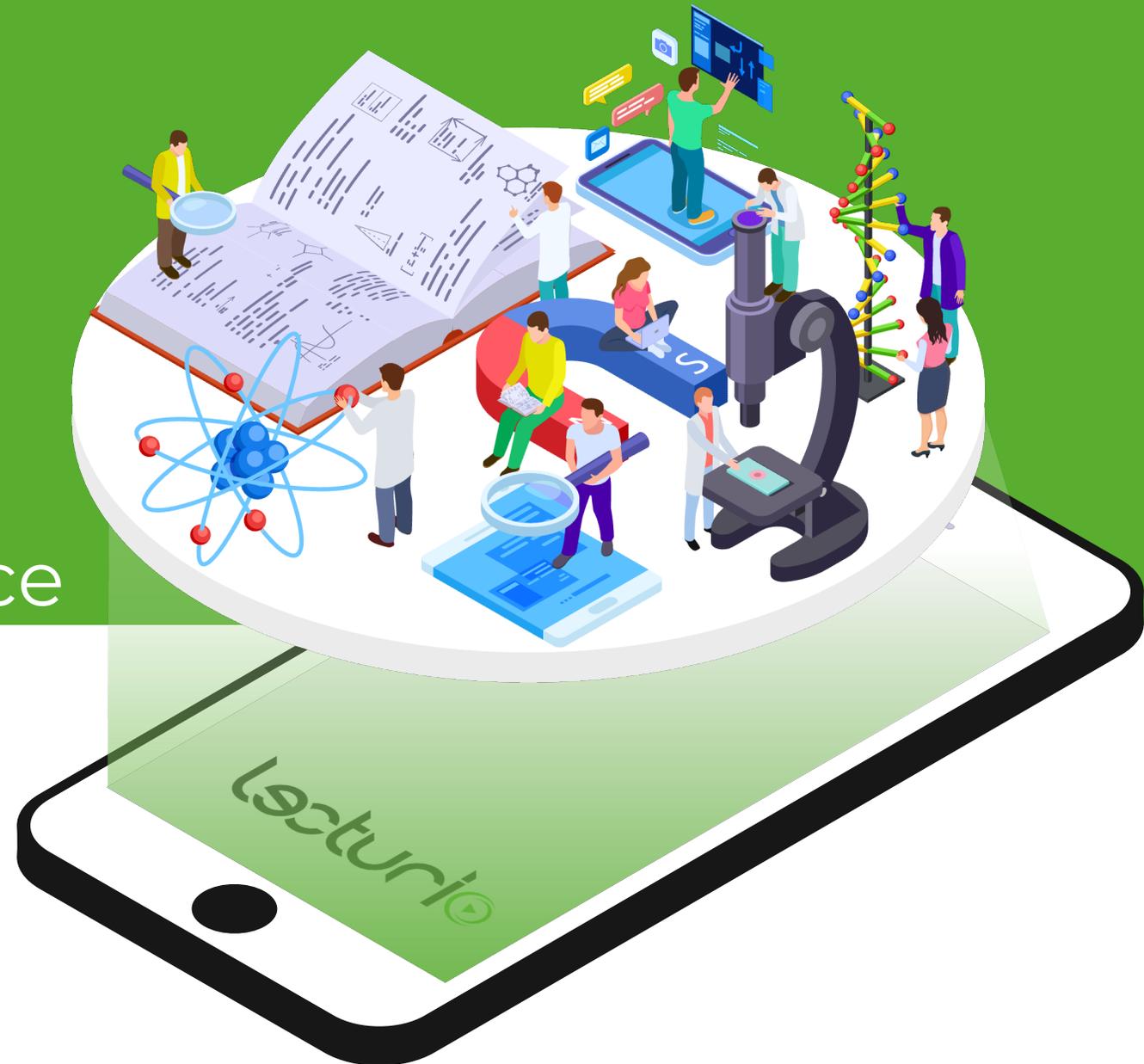


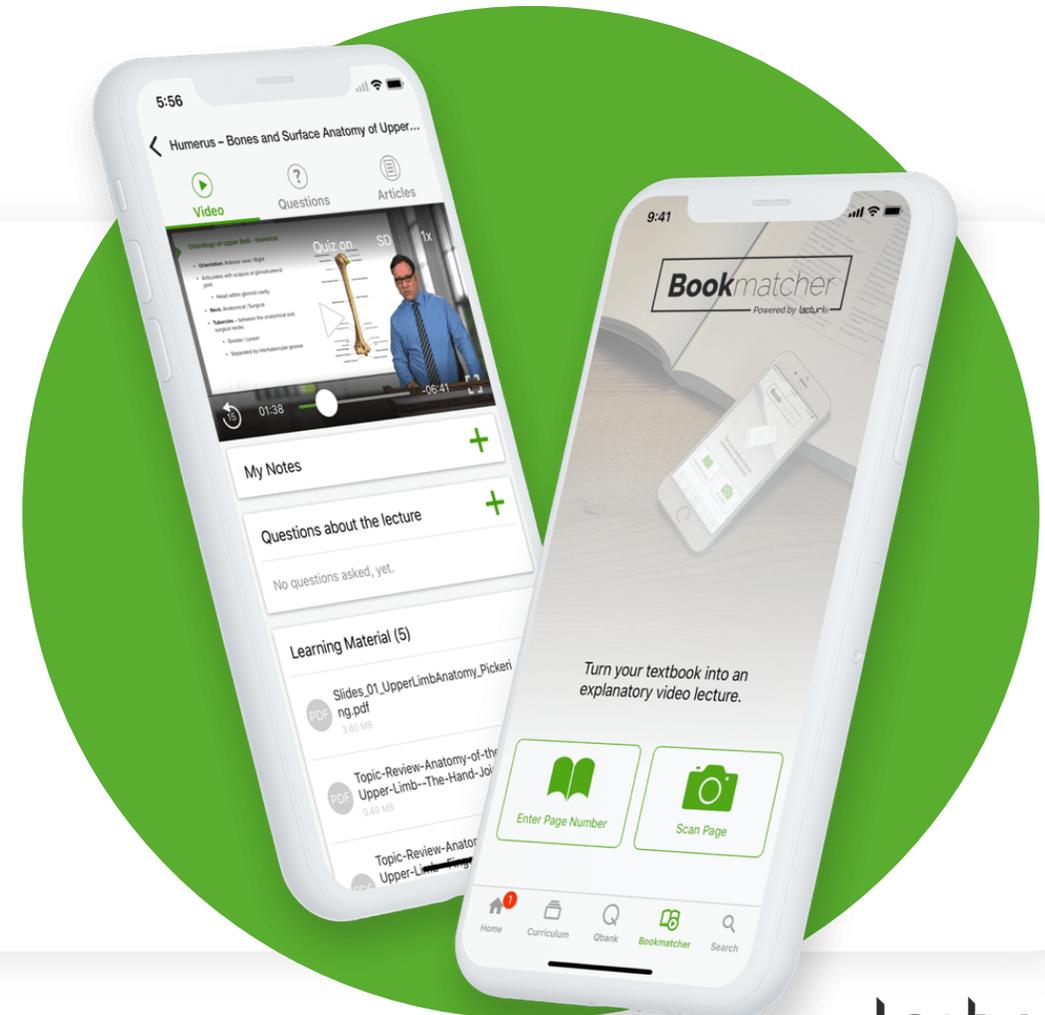
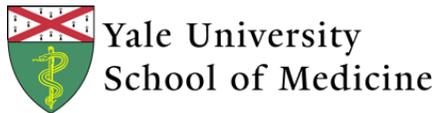
# The Next Generation Precision Health Science Teaching Platform



March  
2022

# Lecturio is the most advanced digital medical education platform in the world

## CONTENT FROM IVY-LEAGUE PROFESSORS



# Welcome by **Dr Peter Horneffer**

Director of Medical Education,  
Lecturio Cardio-Thoracic Surgeon,  
Trained at Johns Hopkins  
University



<https://www.youtube.com/watch?v=objRY7tfzg0>

# The Challenge



Today's students call for new methods and materials and seek them out actively



Learning science shows us how to achieve long-term mastery and get out of the "cram & forget" trap



Regulators require more data and informatics capacity



Traditional LMS systems, test prep tools and library content collections make it difficult to tap the potential of platform-supported precision medical education

---

The global shortages of qualified doctors and nurses call for new teaching methods which make teaching more efficient and less location-dependent



# The **Solution**



Lecturio = The Gold-standard Precision Health Science Education Platform



Top educators from Harvard, Yale, Johns Hopkins & deliver a next generation learning-science optimized content base



The contents are inter-connected and delivered via an AI-powered system providing automatic continuous formative assessment, spaced retrieval, adaptive review & more



It provides students with the formats they seek and reconnects their self-directed learning with faculty

# The two sides of Precision Health Science Teaching

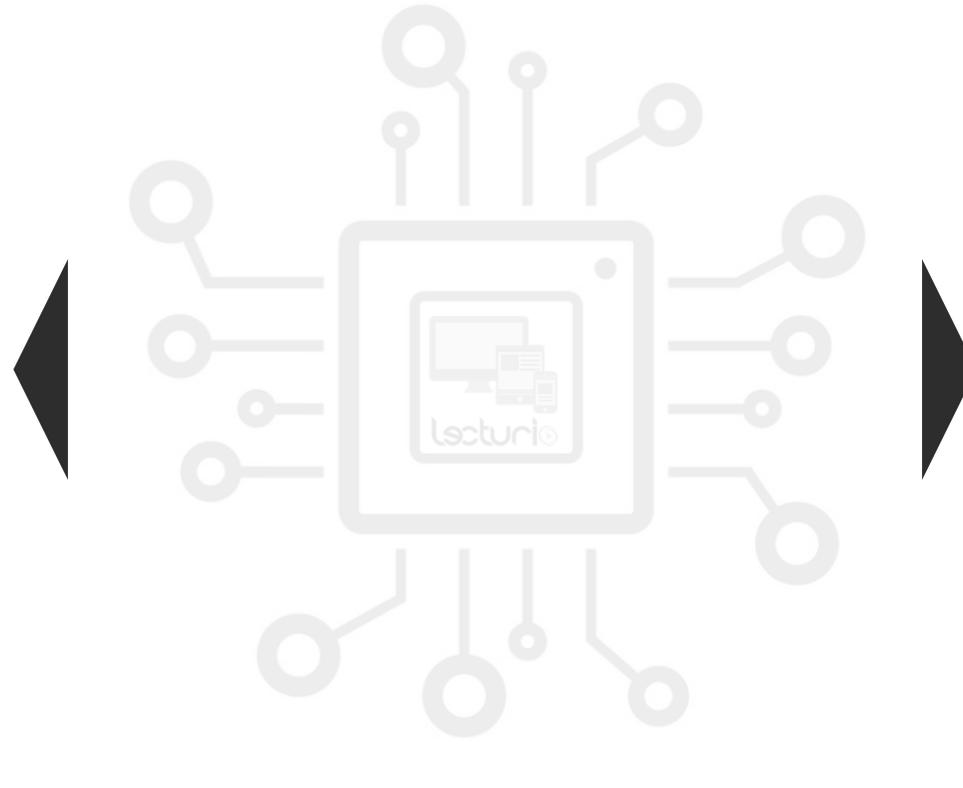
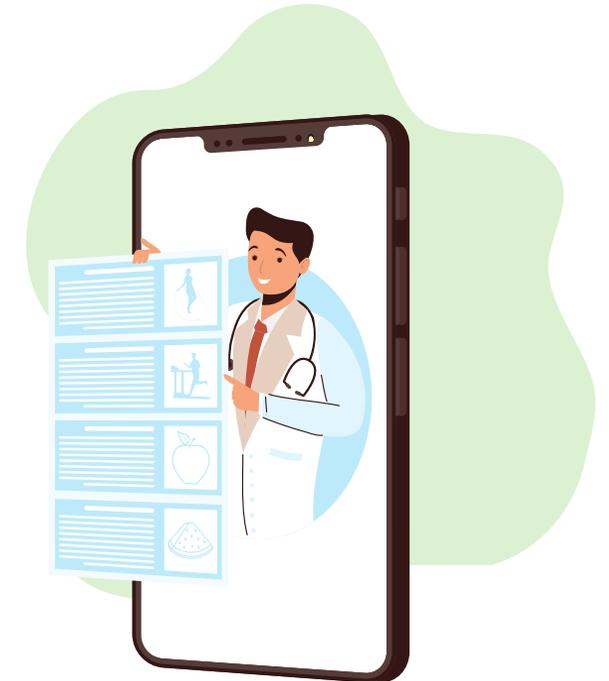
## FOR STUDENTS

Personalized  
Smart Tutor



## FOR FACULTY

Digital Teaching  
Assistant



# By combining technology and content **based on the latest learning science**



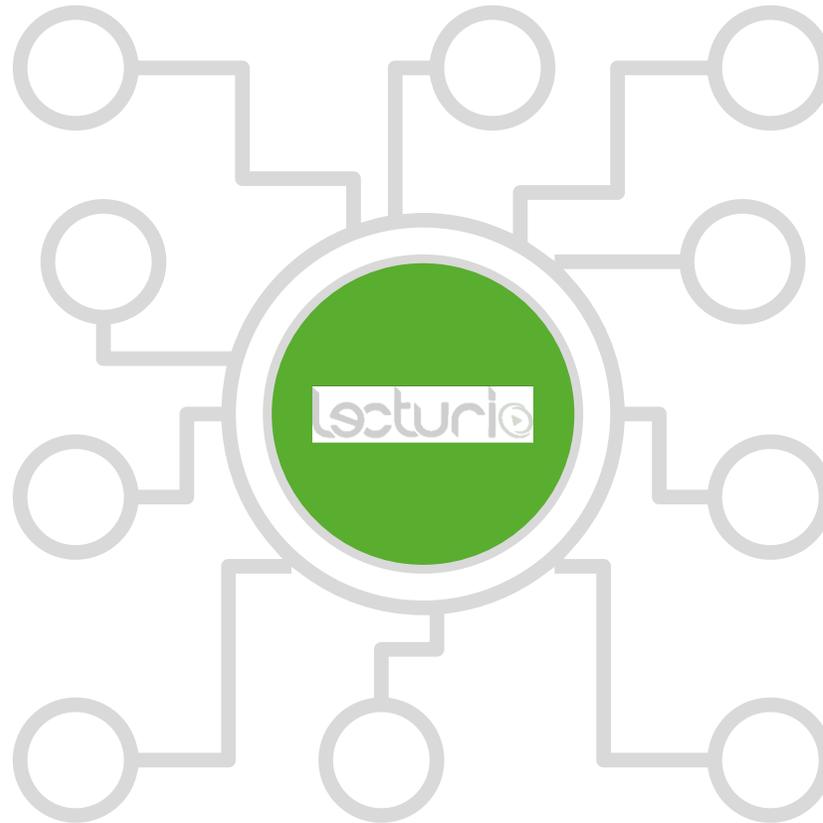
Assignments /  
Study Planning



Analytics &  
Tracking



Artificial  
Intelligence



Videos,  
Simulation, ...



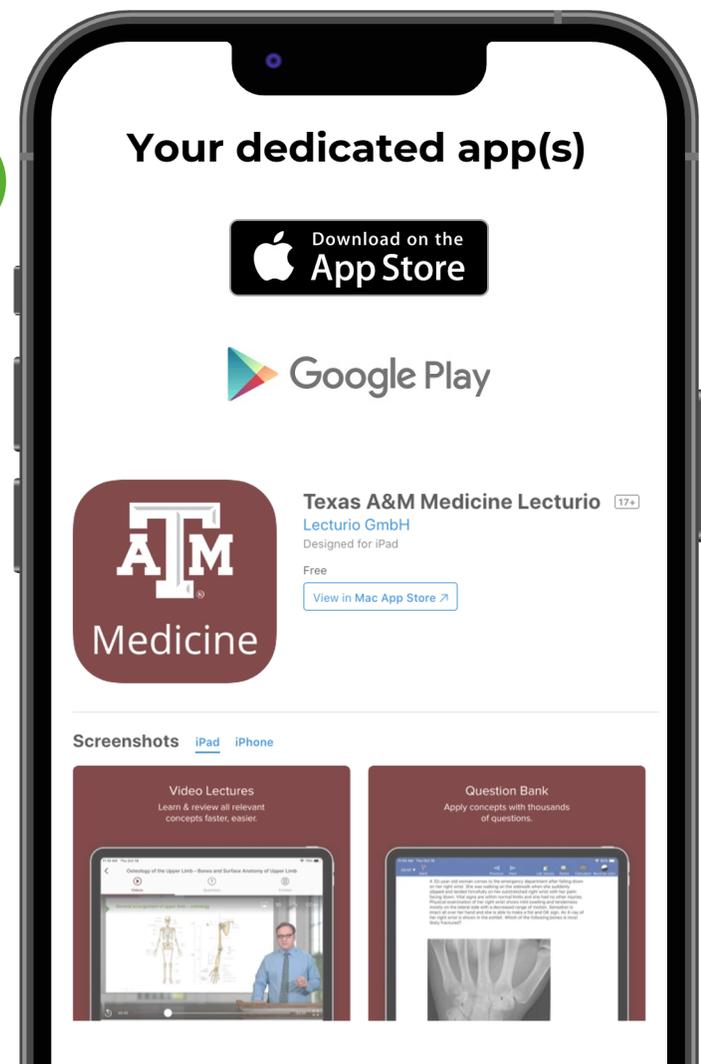
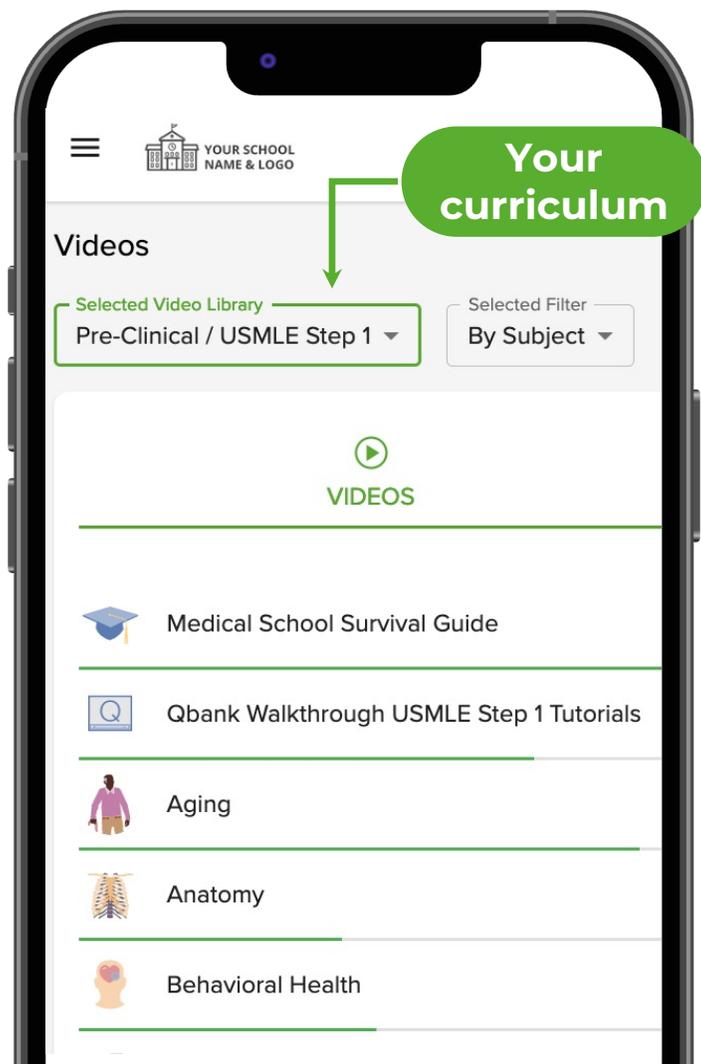
Qbank &  
Articles



World Class  
Educators

# Lecturio provides you with a **completely customized setup**

- ✓ Dedicated white label account
- ✓ Dedicated iOS and Android apps
- ✓ Your curriculum mapped onto the platform
- ✓ Modularity of content
- ✓ Sequestration at Case Question level
- ✓ Upload your own content



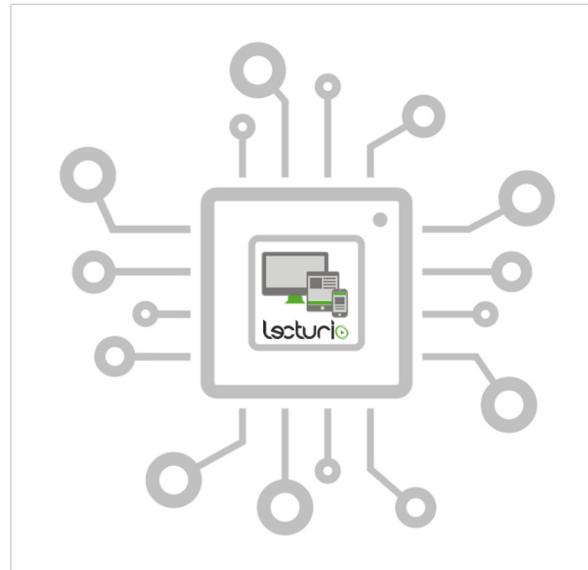
# Easy integration with your **existing setup**

## LMS / TESTING

Logos for Canvas, Bb, Moodle, SEB Safe Exam Browser, and proctorio.

Deep Linking  
LTI SSO

Proctoring  
Integrations



Session  
Prep:  
Strengths &  
Weaknesses,  
Typical  
Mistakes

Content &  
Recording  
Upload

## YOUR TEACHING

Logos for a classroom illustration, Microsoft Teams, and zoom.

## DATA LAKE / ANALYTICS

Logos for Power BI and R.

# Lecturio covers the entire medical & nursing curriculum in all key learning formats



**10,000+**  
Educational  
Videos

**30,000+**  
Recall Questions

**7,000+**  
Case Question  
Bank

**1,500+**  
Concept Articles

# Concise videos on all **key concepts**



- All key medical concepts are covered in-depth



- 3-9 minutes
- Linked recall questions > formative assessment



# Clinical cases to practice application of learned concepts

The screenshot displays a mobile application interface for a clinical case. The question is: "A 25-year-old man was referred to a neurologist for right hand weakness. He was involved in a motor vehicle accident 2 months ago in which his right hand was injured. On examination, his grip is weak, especially in fingers 2, 4, and 5 and he is unable to adduct these fingers. Which of the following groups of muscles is most likely affected?"

The answer options and their percentages are:

|                               |     |
|-------------------------------|-----|
| A. Extensor digitorum         | 5%  |
| B. Palmar interossei muscles  | 45% |
| C. Lumbrical muscles          | 16% |
| D. Dorsal interossei muscles  | 9%  |
| E. Flexor digitorum profundus | 22% |

The result is "Correct".

**Explanation:**

**Correct answer B:** The palmar interossei muscles are a group of muscles in the hands that adduct the fingers towards the midline. They also extend the interphalangeal joints and flex the metacarpophalangeal joints. There are 3 palmar interossei muscles, which are attached to the index, ring, and little fingers (fingers 2, 4, and 5). The thumb contains its own powerful adductor, the adductor pollicis muscle, so there are no palmar interossei of the thumb.

Likewise, the middle finger has no palmar interosseous muscle as it lies in the middle and cannot be adducted towards itself. The dorsal interossei abduct the fingers, i.e., move the fingers away from the midline. There are 4 dorsal interossei muscles, 2 are attached to the middle finger to move the middle finger away from the midline on either side; the other 2 are attached to the index and ring fingers.

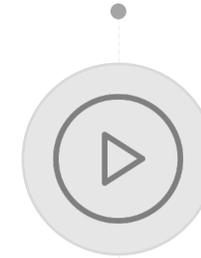
The thumb and the little finger do not have dorsal interossei because they contain their own abducting muscles within the thenar and hypothenar eminences respectively. The palmar interossei adduct and dorsal interossei abduct the fingers (PAD and DAB). All the interossei muscles, palmar and dorsal, are innervated by the ulnar nerve.

**Related Videos:**

- Palmar Aspect – Anatomy of the Hand (06:24 min)

**First Aid References:**

- First Aid for the USMLE Step 1 (2019, 29th ed): 439
- First Aid for the USMLE Step 1 (2018, 28th ed): 436
- First Aid for the USMLE Step 1 (2017, 27th ed): 429



- Explanations on all answer options



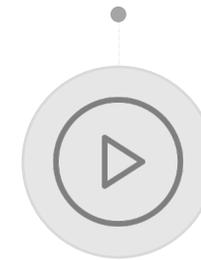
- Linked videos
- Real-life clinical scenarios



- Use for self-directed learning or exams

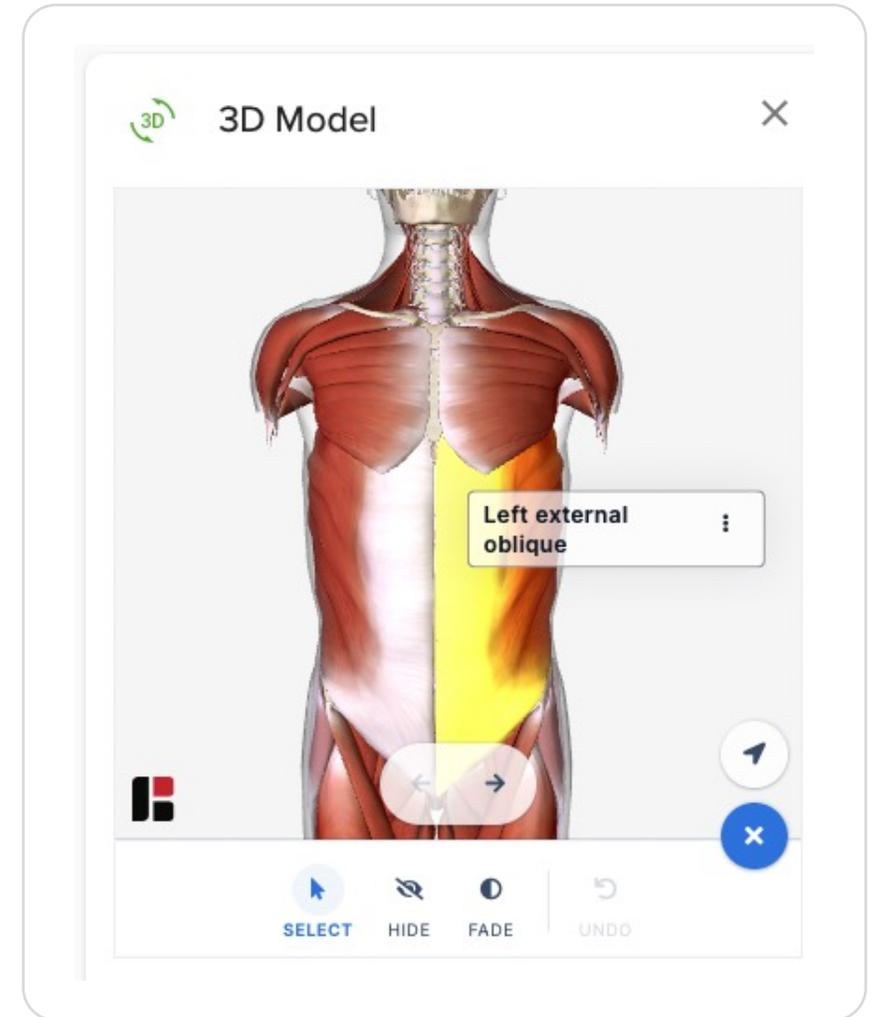
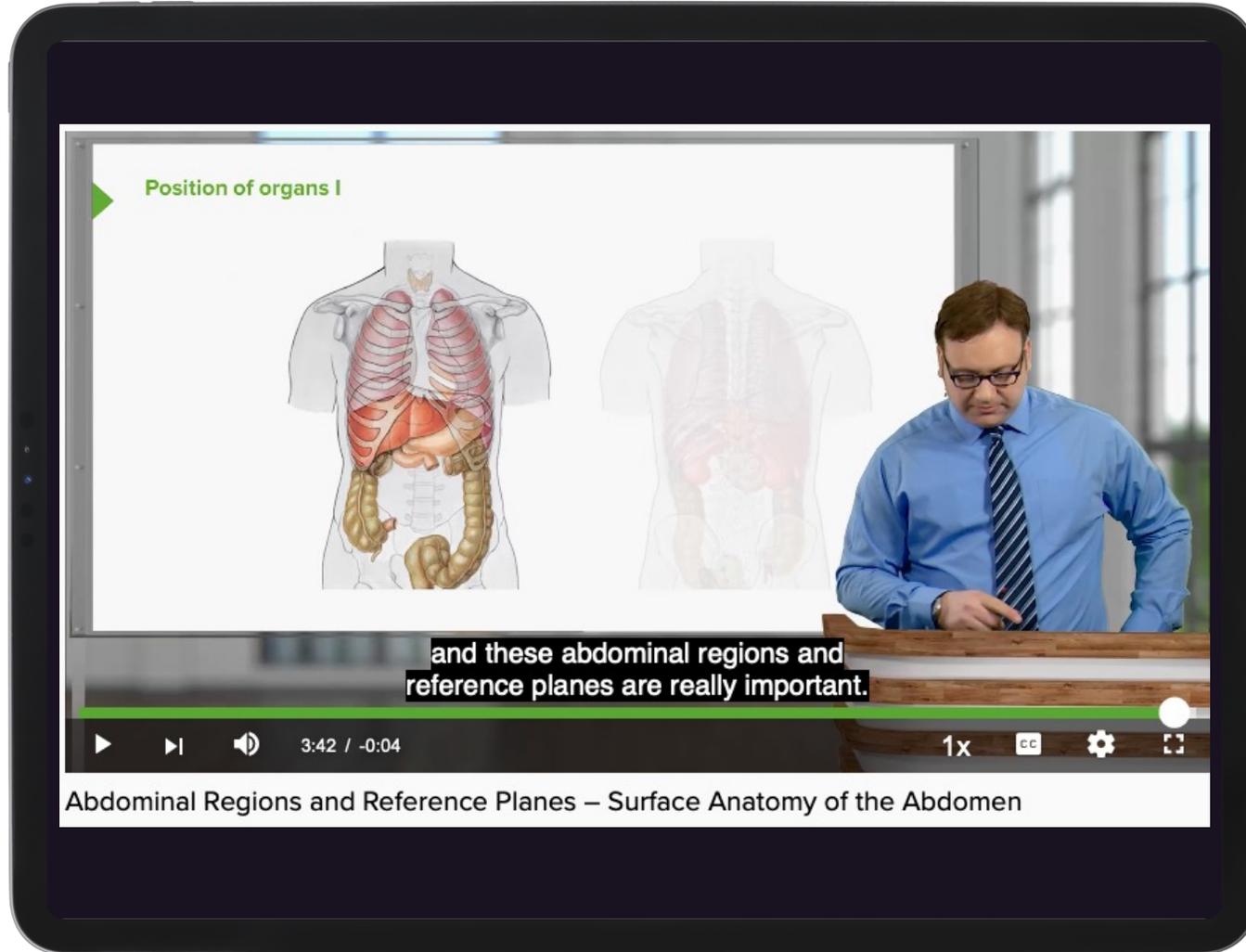
# Details Learning Paths for Step 1, 2 & all NBME subject exams

| Board Exams   |   |   |
|---|---|---|
| <b>USMLE Step 1 Self-Assessment</b><br>280 qbank questions  | <b>USMLE Step 1 Schedule (99 days)</b><br>2,659 qbank questions<br>3,145 videos (266.30 h)<br>10,095 quiz questions | <b>USMLE Step 1 Practice Exams</b><br>840 qbank questions   |
| <b>USMLE Step 2 Self-Assessment</b><br>309 qbank questions  | <b>USMLE Step 2 Schedule (40 days)</b><br>3,321 qbank questions<br>3 videos (28.54 min)                             |   |
| Subject Exams   |   |   |
| <b>Ambulatory Care</b><br>354 qbank questions<br>318 videos (27.03 h)<br>1,056 quiz questions         | <b>Anatomy and Embryology</b><br>128 qbank questions<br>562 videos (47.28 h)<br>1,616 quiz questions                | <b>Behavioral Science</b><br>81 qbank questions<br>238 videos (24.07 h)<br>862 quiz questions                                 |
| <b>Biochemistry</b><br>136 qbank questions<br>493 videos (39.36 h)<br>1,479 quiz questions            | <b>Emergency Medicine</b><br>175 qbank questions<br>230 videos (22.08 h)<br>666 quiz questions                      | <b>Histology</b><br>39 qbank questions<br>400 videos (35.01 h)<br>1,143 quiz questions  |
| <b>Medicine</b><br>821 qbank questions<br>937 videos (77.14 h)<br>2,751 quiz questions                | <b>Microbiology</b><br>203 qbank questions<br>361 videos (31.23 h)<br>1,148 quiz questions                          | <b>Neuroscience</b><br>93 qbank questions<br>348 videos (31.35 h)<br>1,218 quiz questions                                     |
| <b>Obstetrics and Gynecology</b><br>164 qbank questions<br>195 videos (17.48 h)<br>764 quiz questions | <b>Pathology</b><br>680 qbank questions<br>1,173 videos (102.10 h)<br>4,045 quiz questions                          | <b>Pediatrics</b><br>187 qbank questions<br>365 videos (36.39 h)<br>1,312 quiz questions                                      |
| <b>Pharmacology</b><br>286 qbank questions<br>405 videos (36.09 h)<br>1,263 quiz questions            | <b>Physiology</b><br>215 qbank questions<br>330 videos (27.56 h)<br>1,045 quiz questions                            | <b>Psychiatry</b><br>127 qbank questions<br>194 videos (20.35 h)<br>712 quiz questions  |
| <b>Surgery</b><br>113 qbank questions<br>310 videos (24.34 h)<br>827 quiz questions                   | <b>Emergency Medicine COMAT</b><br>297 qbank questions<br>359 videos (34.01 h)<br>872 quiz questions                | <b>Osteopathic Principles &amp; Practice (OPP) COMAT</b><br>326 qbank questions<br>189 videos (23.30 h)<br>364 quiz questions |



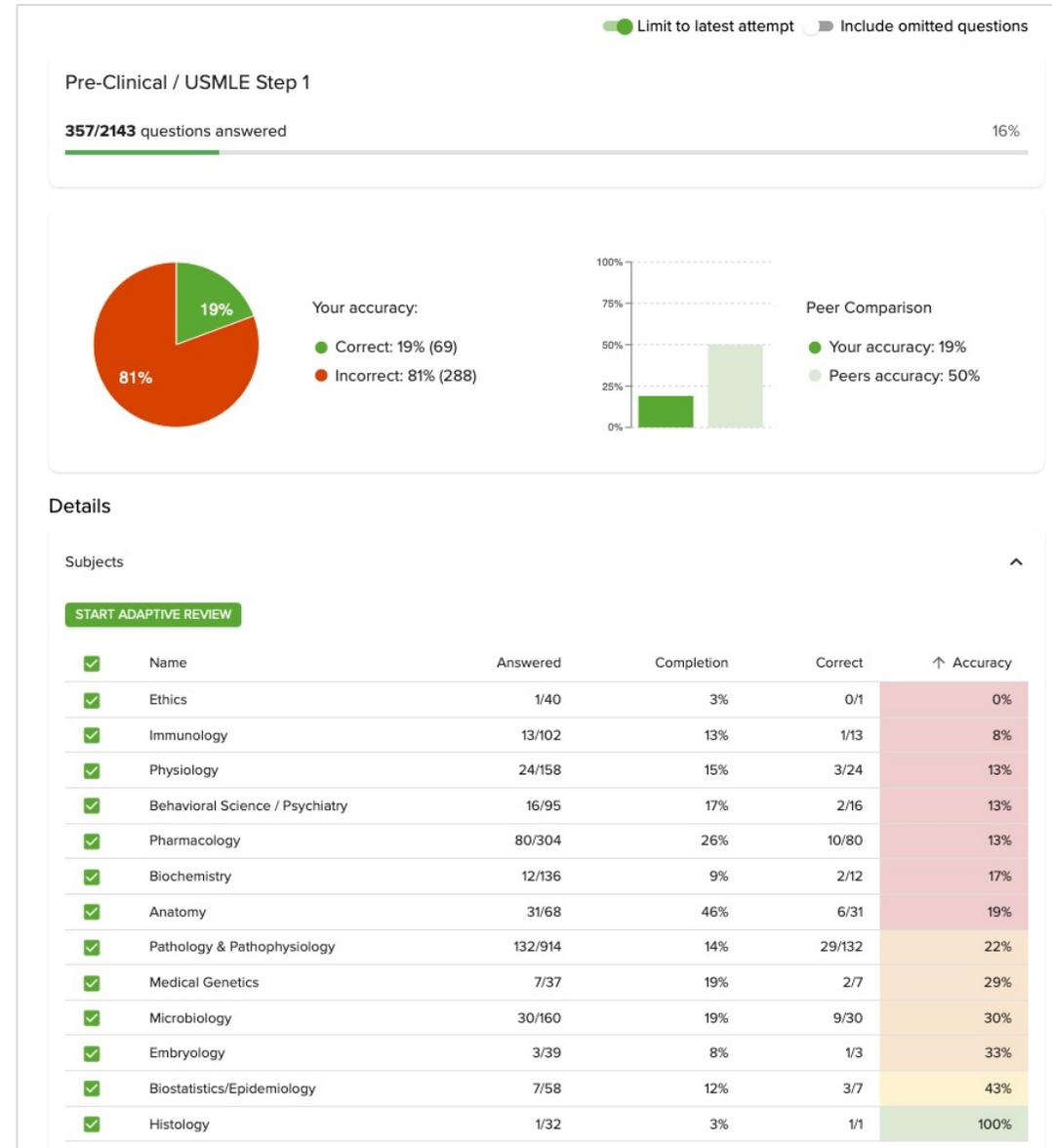
- Learning Paths combine video & Qbank blocks
- Adaptive review intelligence within each path

# 3D Anatomy with 400 pre-mapped views

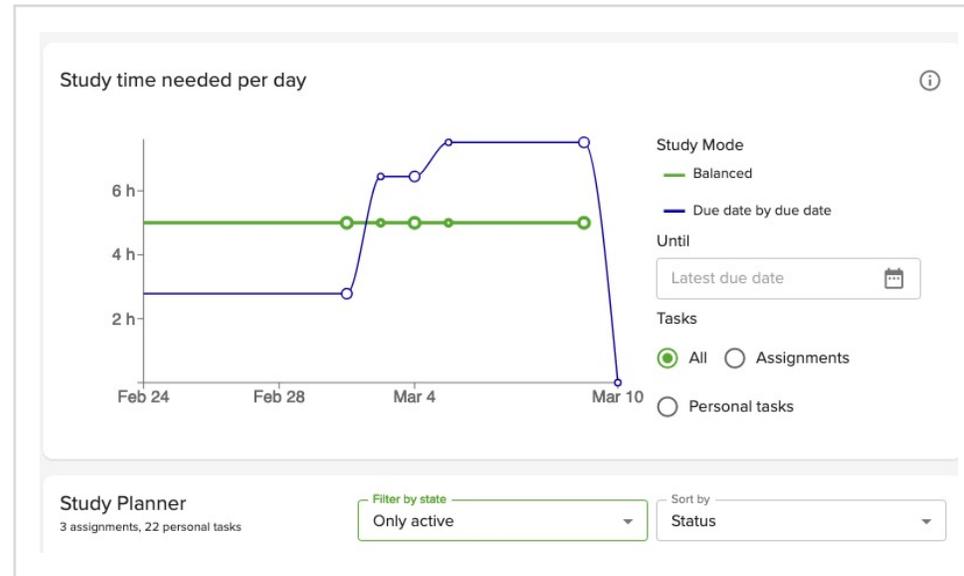




# Configurable adaptive review supports effective self-directed learning



# Balanced Study Coach helps avoid study crunches by planning ahead

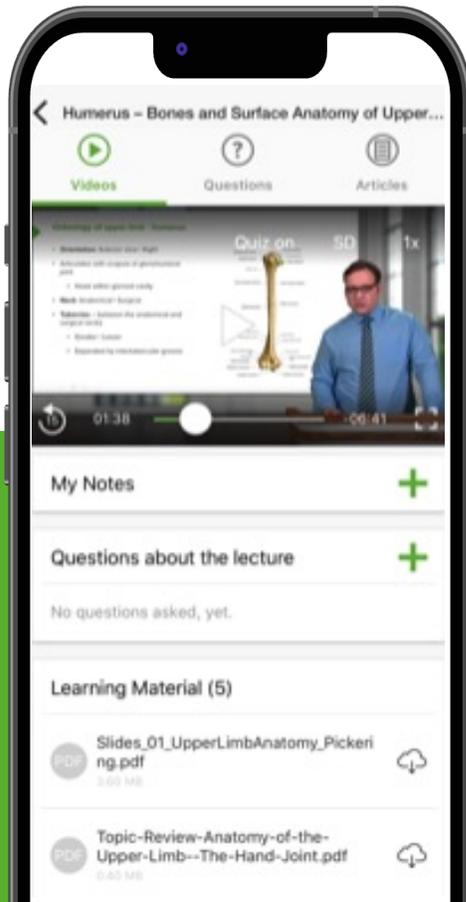


|  |     |     |
|--|-----|-----|
| Qbank Test Assignment 08/21/2019<br><small>(Due: Aug 24, 2019 11:59 PM) Assigned by: Thiemo Weiser 7 questions</small> | 0%  | ●   |
| Qbank Test Assignment 07/04/2019<br><small>(Due: Jul 6, 2019 11:59 PM) Assigned by: Thiemo Weiser 8 questions</small>  | 0%  | ●   |
| Clinical Neurology<br><small>(Due: Mar 10, 2022 11:59 PM) 30:23 h</small>  | 4%  | ! ● |
| Histology: Human Organ Systems<br><small>(Due: Mar 5, 2022 11:59 PM) 10:55 h</small>                                   | 11% | ! ● |
| Emergency Medicine<br><small>(Due: Mar 3, 2022 11:59 PM) 18:57 h</small>   | 22% | ! ● |
| Family Medicine<br>Learning Path   | 16% | ●   |
| Thoracic Viscera<br>2:59 h   | 38% | ●   |
| Trauma (Emergency Medicine)<br>2:58 h  | 18% | ●   |

# Apps ensure access any time and anywhere

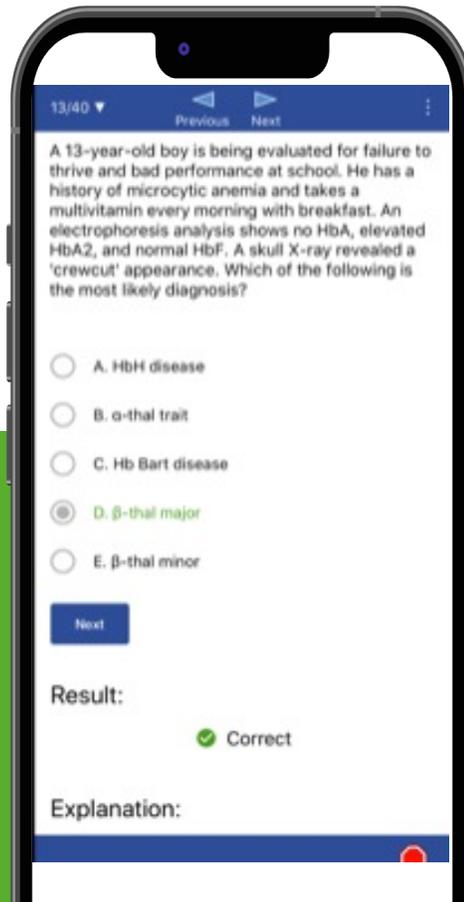
## Video Lectures

Designed for your Medical school, USMLE, MCAT, MBBS



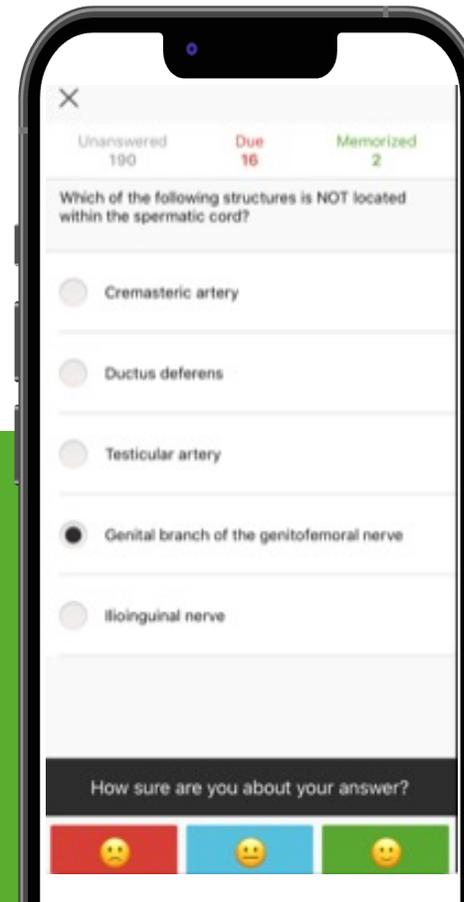
## Question Bank

Apply concepts with thousands of up-to-date board-style questions



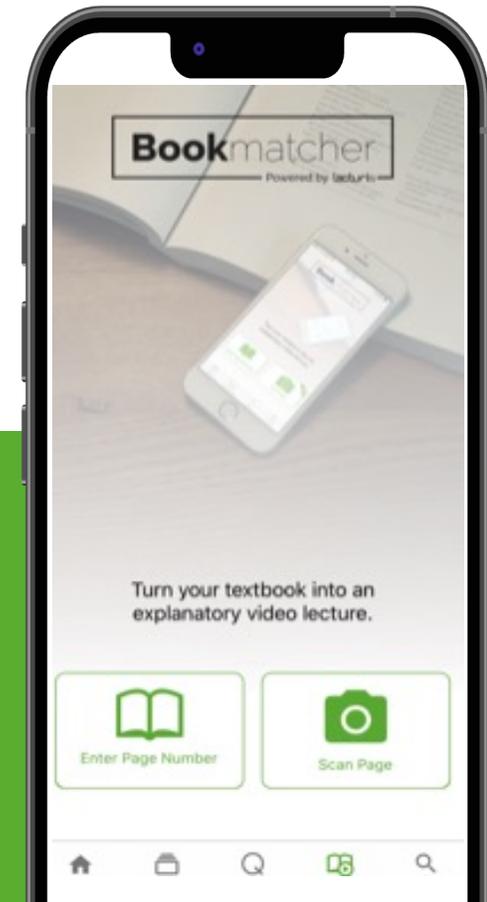
## Spaced Repetition

Repeat & memorize key information better, smaller

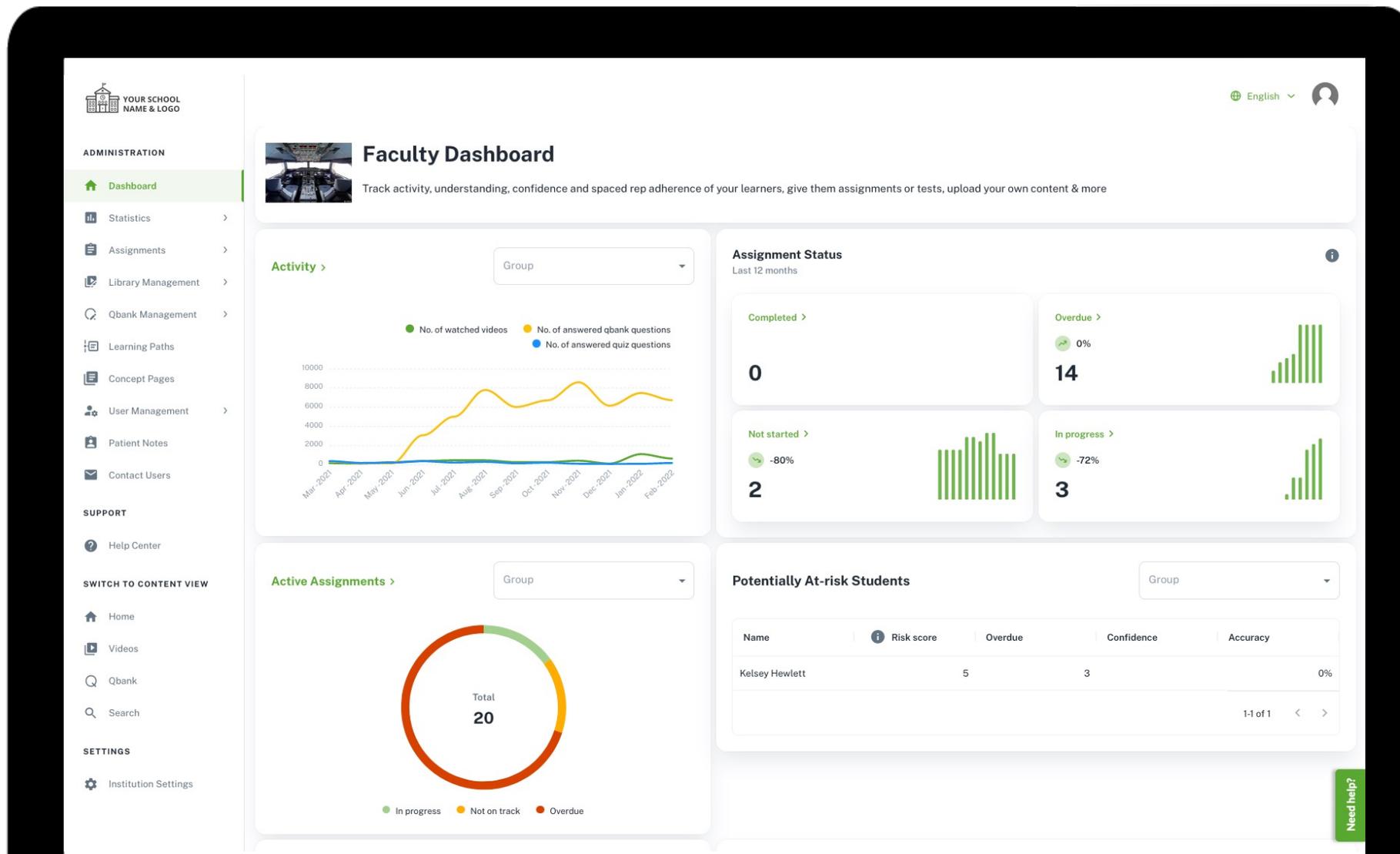


## Bookmatcher

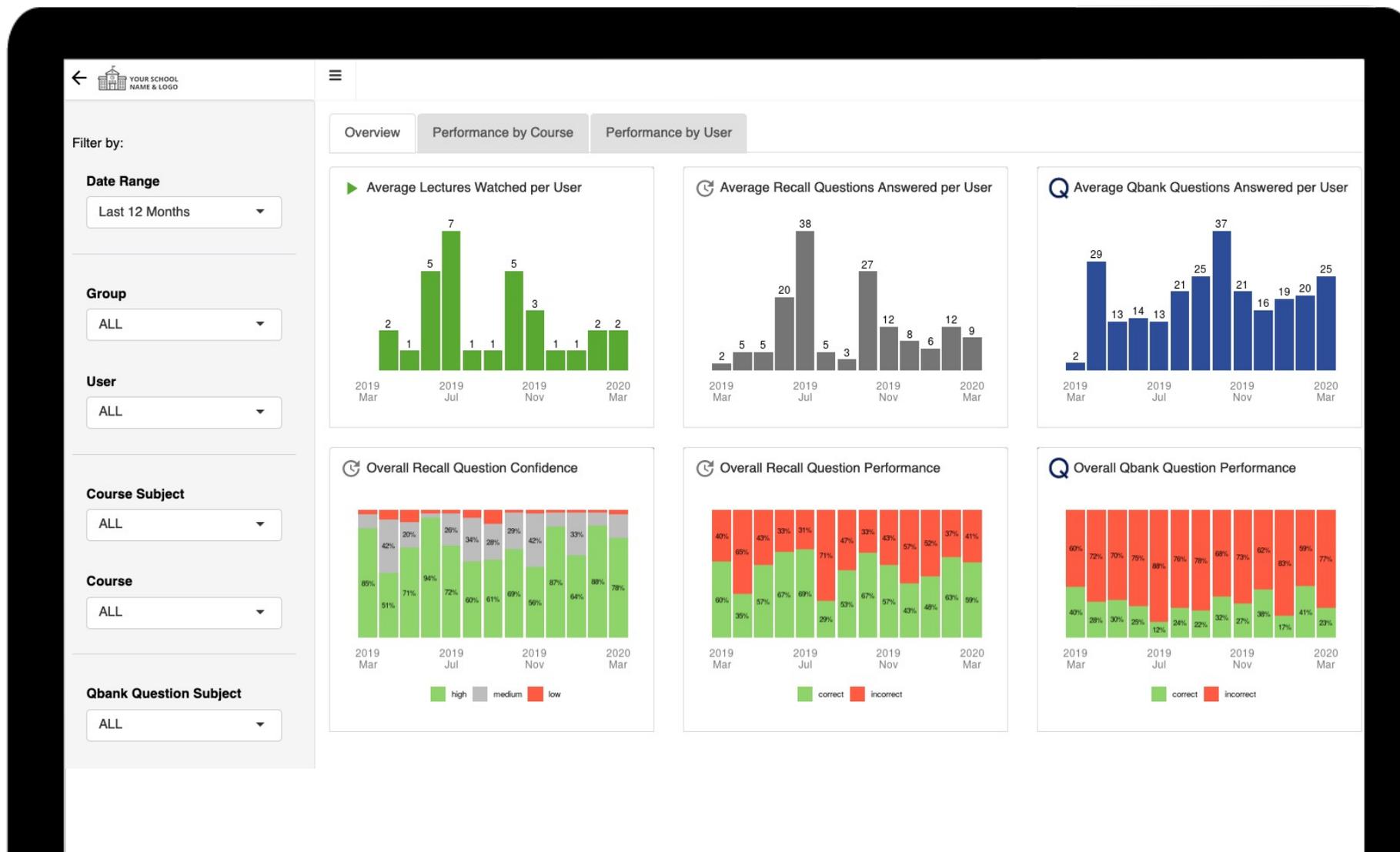
Turn your textbook into an explanatory video lecture



# Powerful faculty dashboards



# Detailed exportable analytics



# Proctored assessment integration

**Exam Configuration Screenshot:**

**IDs of included questions:** 20,22,27,6,57,8,180,182,184,186,188,190

**Exam:** ON

**Security:**

- Default: The exam will be taken in the regular learning environment.
- Safe Exam Browser: Users are required to use the Safe Exam Browser to take this test. The Safe Exam Browser needs to be installed by users before attempting the exam. [Learn more about Safe Exam Browser.](#)
- Proctorio: The exam will be taken in a proctored environment.

**Test Mode:**

- Tutor:** OFF. After each answer, students will directly move on to the next question.
- Timer:** ON. This sets an overall time limit based on the time per question chosen below. Individual question time is not cut off.
  - 90 seconds per question (between 30 and 600 seconds)
  - 15:00 Total duration in minutes (for 10 questions)

**Single Attempt:** ON. Students will be limited to a single attempt and can't restart this test.

**Results Hidden:** ON. Students will be unable to see their test results or review this test.

**Pause Allowed:** OFF. Students will not be able to pause and resume the test.

**Test Title:** Qbank Test Oct 21, 2020

Buttons: BACK, SAVE TEST, SAVE AND ASSIGN

---

**Proctorio Exam Results Screenshot:**

**Proctorio 101**

Home | **Quizzes** | People | Grades | Settings

Proctorio Gradebook | Proctorio Settings | Proctorio Map | Display Options | Professional Review

search by student name

**Proctorio Exam Results**

| Name             | Submission Time        | Attempt | Score | Annotations | Abnormalities | Suspicion Level                         |
|------------------|------------------------|---------|-------|-------------|---------------|---|
| Jeffrey Nguyen   | 06/21/2016 04:21:50 pm | 1       | 8     | 3           | 6             | 77% <span style="color:red">●</span>    |
| Ruby Nash        | 06/22/2016 02:19:31 pm | 1       | 8     | 3           | 5             | 75% <span style="color:red">●</span>    |
| Isaac Saunders   | 06/26/2016 06:13:50 am | 1       | 7     | 2           | 5             | 67% <span style="color:red">●</span>    |
| Marilyn Ouen     | 06/22/2016 02:19:50 am | 1       | 9     | 2           | 4             | 59% <span style="color:orange">●</span> |
| Cullierme Newman | 06/24/2016 09:19:40 pm | 1       | 8     | 2           | 3             | 54% <span style="color:orange">●</span> |
| Beverly Gregory  | 06/22/2016 02:19:31 pm | 1       | 7     | 3           | 3             | 46% <span style="color:orange">●</span> |
| Olivia Bowers    | 06/21/2016 06:19:50 am | 1       | 8     | 3           | 3             | 40% <span style="color:orange">●</span> |
| Louis Schultz    | 06/22/2016 02:19:31 pm | 1       | 9     | 3           | 3             | 38% <span style="color:green">●</span>  |
| Bryant Dawson    | 06/21/2016 05:19:50 am | 1       | 7     | 2           | 2             | 34% <span style="color:green">●</span>  |
| Tina Griffith    | 06/24/2016 09:19:40 pm | 1       | 6     | 0           | 2             | 30% <span style="color:green">●</span>  |
| Nicole Bennett   | 06/22/2016 03:19:50 am | 1       | 8     | 0           | 1             | 30% <span style="color:green">●</span>  |
| Erica Ramos      | 06/22/2016 02:19:31 pm | 1       | 8     | 0           | 1             | 25% <span style="color:green">●</span>  |

Rows per page: 25 | Displaying 1-13 of 13

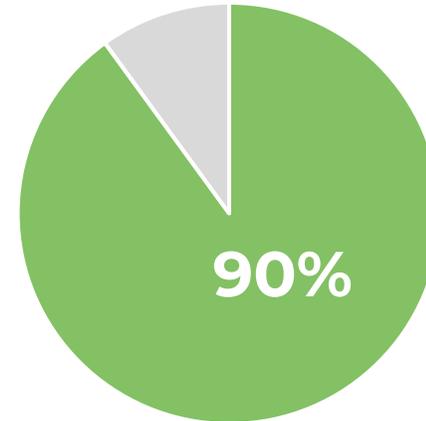
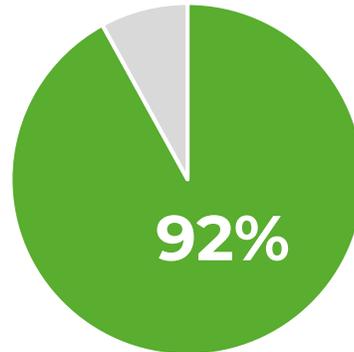
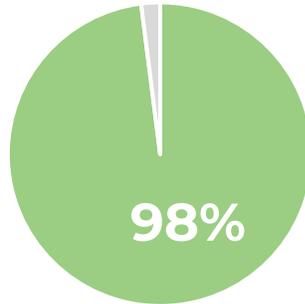
# Students report improved outcomes and reduced stress levels



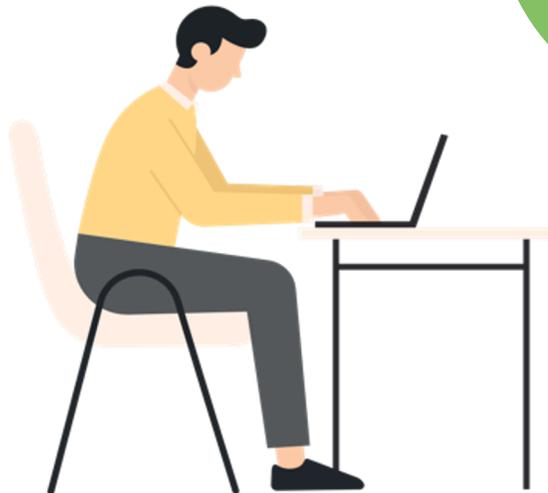
“Lecturio improved my exam scores”



“I would recommend Lecturio to a friend”



“Lecturio helped reduce my exam stress levels”



# Reference Exam Performance Impact



**+28%**  
Pass Rate



USMLE Step 1

**+47%**  
Pass Rate



USMLE Step 2

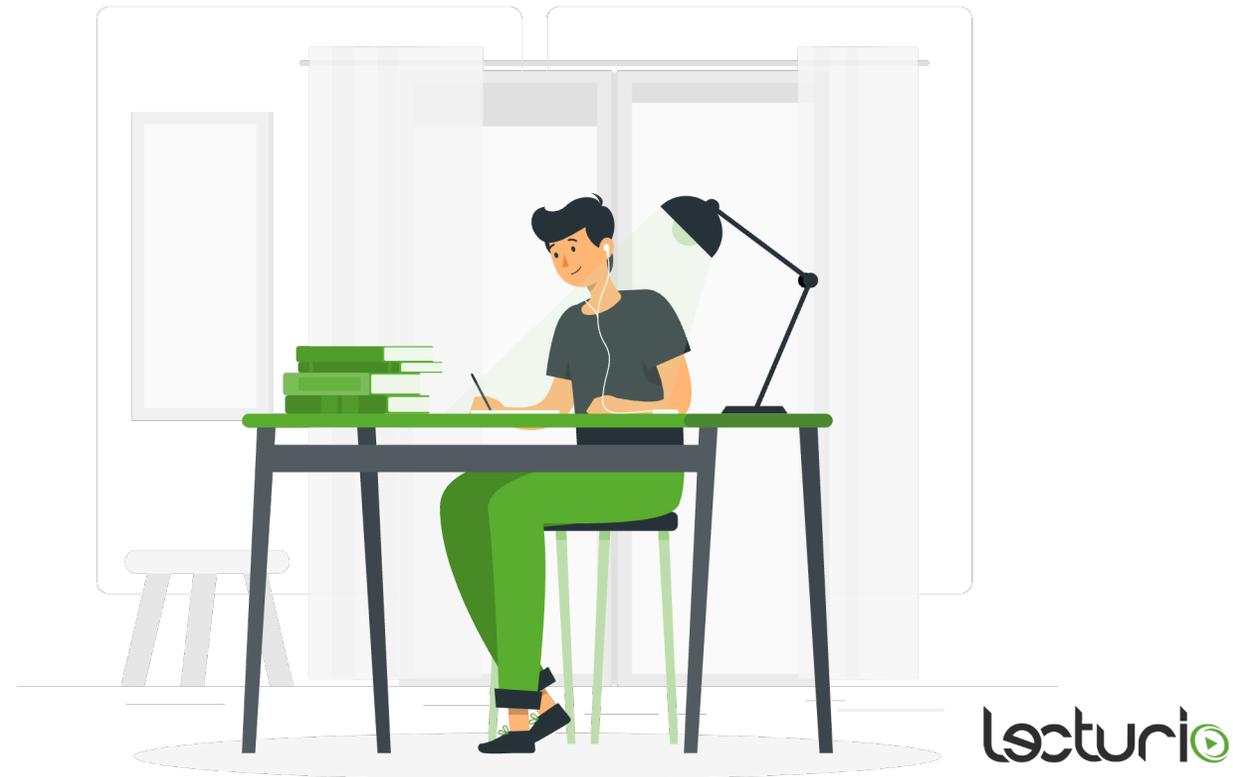
**+47%**  
Score Increase



NBME

# A Bundle of Features to Effectively Serve that Institutional and Student Needs

- ✓ Curriculum enhancement
- ✓ 3d models
- ✓ Adaptive Intelligence (Time Management, Spaced Repetition, Adaptive Review)
- ✓ Assessment Engine (Qbank Functions)
- ✓ Assignments / Reporting
- ✓ Curriculum mapping
- ✓ LMS integration (currently on benefits)
- ✓ Add On 1: Course Creator
- ✓ Addon 2: Proctoring
- ✓ Addon 3: Sim



# 8 Key Benefits to Institutions & Students



Enhanced Learning  
Outcomes



Easier Blended  
Learning & Flipped  
Classroom Delivery



Stress Reduction for  
Faculty & Students



Enhanced Overall  
Assessment with  
automatic formative  
assessment



Learning Science  
benefits contribute  
to long term mastery



Faculty Time  
Effectiveness



Student Time  
Effectiveness



Reconnecting Students &  
Faculty

# Institutional Benefits of a Precision Health Science Teaching Platform



## Quality & outcomes

- Puts learning science to work for you
- Unmatched media and educator/didactic quality
- Better exam results , pass rates and reputation



## Lower faculty Burden

- Free up time to support students, engage in clinical practice, research, administration
- More efficient, data-driven teaching



## Facility independence

- Less lecturing, more self-directed learning
- Whole new remote possibilities through before unseen online teaching quality and effectiveness



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**Let's teach**  
evidence-based  
medicine in an  
evidence-based manner

[www.lecturio.com](http://www.lecturio.com)  
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