



MICC 2022



Wolters Kluwer
When you have to be right

Monitoring and Evaluating Learning through Quizzes

Michael Fanning
Customer Success - Training Manager

Ovid Customer Success
Health Learning, Research & Practice
Wolters Kluwer

14th June 2022

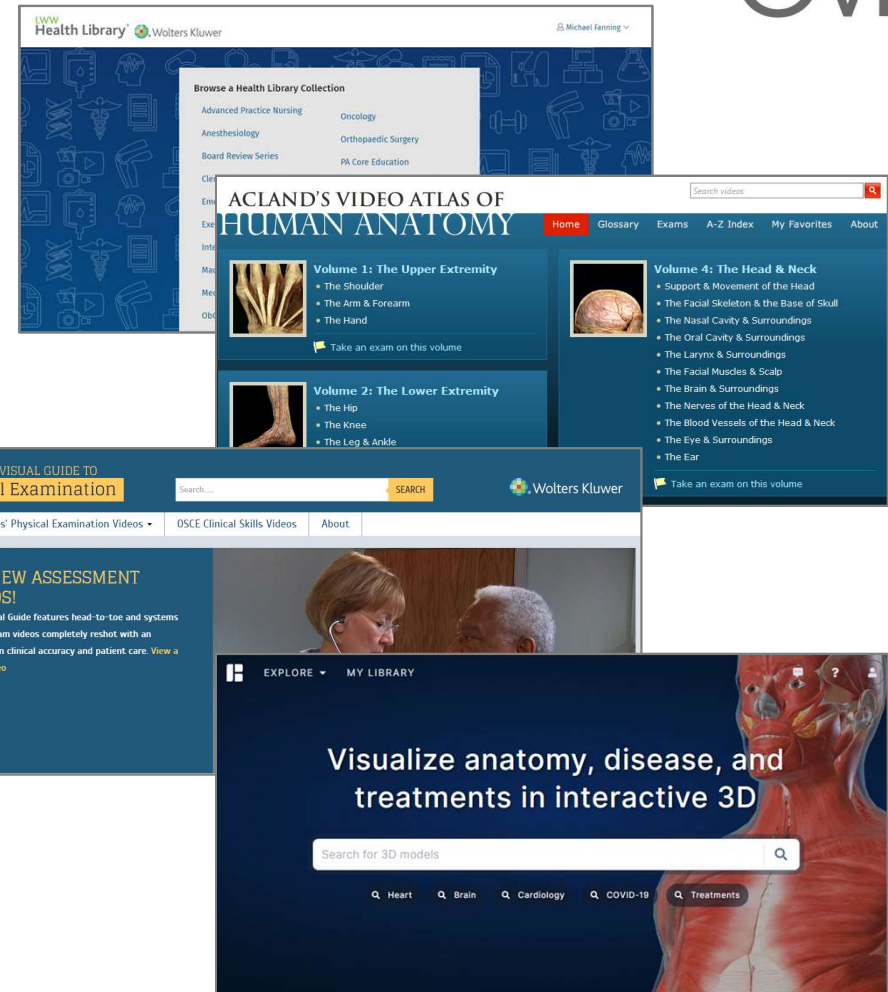
Programme

Welcome

- A. Introduction
- B. LWW Health Library
- C. Aclands
- D. Bates
- E. BioDigital Human Studio

Reflections

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A. Introduction

The Essence of the Problem

You can lead a horse to water...

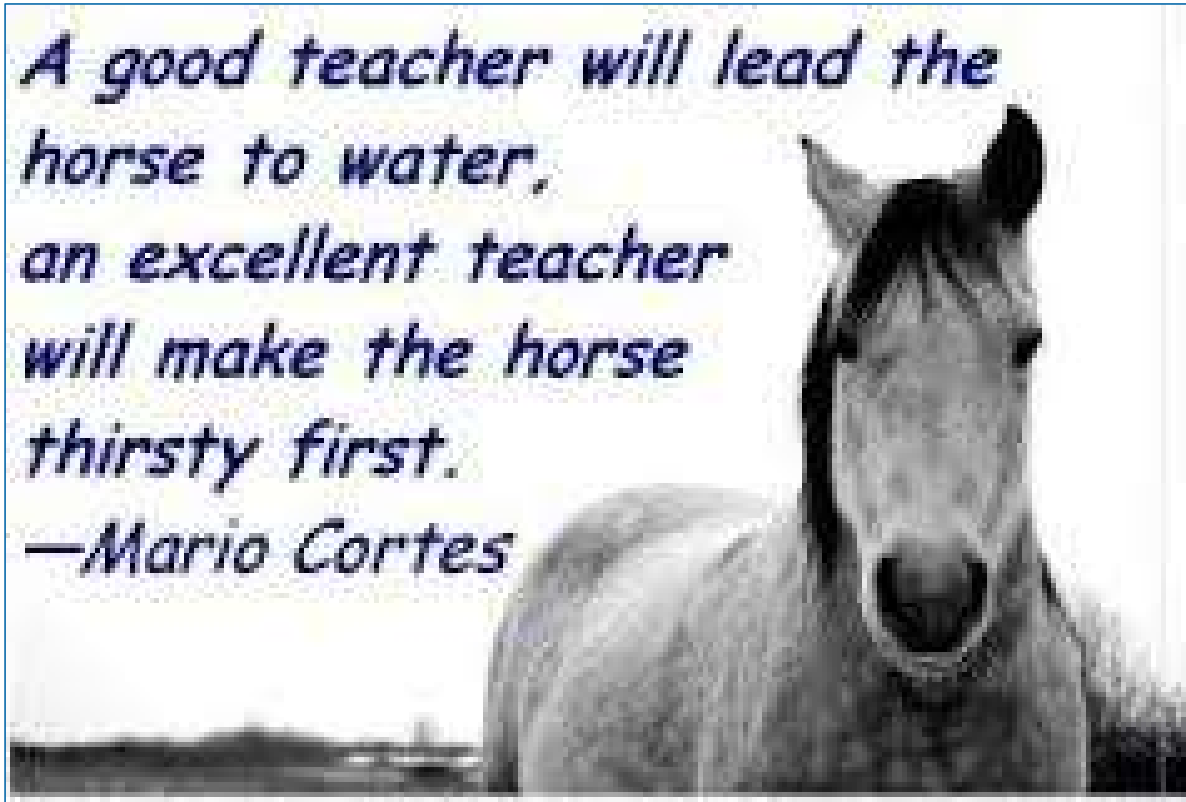


...but you can't make it drink!

A. Introduction

The Teacher's Challenge

*A good teacher will lead the
horse to water,
an excellent teacher
will make the horse
thirsty first.
—Mario Cortes*



B. LWW Health Library

The Product

LWW Health Library offers access to and searching in essential practice area specific texts, as well as rich, interactive multimedia extra content like procedural videos, images, real-life case studies, and quiz banks tailored by specialty.

Ovid[®]

The screenshot displays the LWW Health Library Medical Education website. At the top, the header includes the LWW Health Library logo and the Wolters Kluwer name. A user profile for Michael Fanning is visible in the top right. A dropdown menu titled "Browse a Health Library Collection" is open, listing various medical specialties such as Advanced Practice Nursing, Oncology, Anesthesiology, Orthopaedic Surgery, Board Review Series, PA Core Education, Clerkship/Clinical Rotations, PA Rotations/Specialties, Emergency Medicine, and Pathology.

The main content area features a search bar with the text "Search Medical Education" and an "Advanced Search" button. Below the search bar, there is a "Browse" section with several icons representing different content types: Texts, Journal Club, Video & Audio, Self Assessment (highlighted with a red box), Cases, and Clinical Skills. The "Self Assessment" icon is a checkmark inside a circle.

At the bottom of the page, there is a section titled "Explore Other Wolters Kluwer Resources" with logos for BATES' VISUAL GUIDE TO Physical Examination, ACLAND'S VIDEO ATLAS OF HUMAN ANATOMY, 5MinuteConsult, Grant's Anatomy Lab, prepU, thePoint, and STEDMAN'S.

B. LWW Health Library

Key Features

- ✓ Highly-rated Lippincott reference and textbooks
- ✓ Video clips of techniques, procedures, and physiological processes
- ✓ Multiple-choice Q&A to gauge performance and target areas for remediation
- ✓ Regular content updates as new book editions are published
- ✓ Content that is sharable with classmates and colleagues
- ✓ Advanced semantic search that guides users to results displayed by title, chapter, etc.
- ✓ Responsive design for browsing content on computer, tablet, or smartphone with ease
- ✓ Downloadable book chapters for note taking or to print
- ✓ Integration with Ovid MEDLINE[®] surfaces journal content relevant to chapter topics

B. LWW Health Library

The Quizzes or rather 'Self Assessment'

LWW Health Library® Medical Education Search... Advanced Search

Texts Video & Audio Journal Club **Self Assessment** Cases Resources ▾

SELF ASSESSMENT

> ALL

- Anatomy
- Bedside diagnosis
- Behavioral science
- Biochemistry
- Embryology
- Epidemiology
- Human genetics
- Immunology
- Microbiology
- Molecular biology
- Neuroanatomy
- Osteopathic medicine
- Pharmacology
- Physical examination and history taking

All Topics

type to filter JUMP TO: # A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

<input type="checkbox"/>	<input type="checkbox"/> 1st week of development	15 Questions
<input type="checkbox"/>	<input type="checkbox"/> 2nd week of development	2 Questions
<input type="checkbox"/> NOT STARTED	<input type="checkbox"/> 3rd month to birth	17 Questions
<input type="checkbox"/> NOT STARTED	<input type="checkbox"/> 3rd week of development	4 Questions
<input type="checkbox"/>	<input type="checkbox"/> Abdomen and pelvis	117 Questions
<input type="checkbox"/> NOT STARTED	<input type="checkbox"/> Adaptive immunity	174 Questions
<input type="checkbox"/> NOT STARTED	<input type="checkbox"/> Amino acid	154 Questions
<input type="checkbox"/> NOT STARTED	<input type="checkbox"/> Anatomy	2 Questions

B. LWW Health Library A Sample Question

LWW Health Library[®] Medical Education Advanced Search Michael Fanning

[Texts](#) [Video & Audio](#) [Journal Club](#) [Self Assessment](#) [Cases](#) [Resources](#) [More Collections](#)

[RETURN TO QUIZ LANDING PAGE >](#)

1st week of development::4663274::1587643104798

Time Allotted Per Question	Time Spent on Question	Time Allotted for Quiz	Time Spent on Quiz	Question
60 Seconds	00:00:55	00:11:00	00:00:55	1 of 11

Embryonic carcinoma (EC) cells were isolated from a yellow-coated mouse with a teratocarcinoma. The EC cells were then micro-injected into the inner cell mass of a blastocyst isolated from a black-coated mouse. The blastocyst was subsequently implanted into the uterus of a white-coated foster mouse. Which of the following would be observed after full-term pregnancy?

- A white-coated offspring
- A yellow and black-coated offspring
- A yellow-coated offspring
- A yellow and white-coated offspring
- A black-coated offspring

[Clear Response](#) [←](#) [→](#) [Submit Quiz](#)

C. Acland's Video Atlas of Human Anatomy

The Product

Ovid[®]

The screenshot shows the website for Acland's Video Atlas of Human Anatomy. At the top, the title "ACLAND'S VIDEO ATLAS OF HUMAN ANATOMY" is displayed in large, white, serif font against a dark blue background. To the right of the title is a search bar with the placeholder text "Search videos" and a red search icon. Below the title is a navigation menu with the following items: "Home" (highlighted in red), "Glossary", "Exams", "A-Z Index", "My Favorites", and "About".

The main content area is divided into four sections, each featuring an anatomical image and a list of topics:

- Volume 1: The Upper Extremity** (Image: Hand and forearm bones)
 - The Shoulder
 - The Arm & Forearm
 - The Hand

Take an exam on this volume
- Volume 2: The Lower Extremity** (Image: Leg and foot bones)
 - The Hip
 - The Knee
 - The Leg & Ankle
 - The Foot

Take an exam on this volume
- Volume 4: The Head & Neck** (Image: Human skull)
 - Support & Movement of the Head
 - The Facial Skeleton & the Base of Skull
 - The Nasal Cavity & Surroundings
 - The Oral Cavity & Surroundings
 - The Larynx & Surroundings
 - The Facial Muscles & Scalp
 - The Brain & Surroundings
 - The Nerves of the Head & Neck
 - The Blood Vessels of the Head & Neck
 - The Eye & Surroundings
 - The Ear

Take an exam on this volume

C. Acland's Video Atlas of Human Anatomy

Key Points

- ✓ **Acland's Video Atlas** was originally intended to be used by individual medical and dental students.
- ✓ However, because of its realism, simple language, and three-dimensional quality, the **Video Atlas** has become popular with students and teachers in many other fields.
- ✓ And also with people not on a professional learning path who are looking for information about human anatomy.

C. Acland's Video Atlas of Human Anatomy

The Quizzes or rather 'Exams'

The screenshot shows the 'EXAMS' section of the Acland's Video Atlas of Human Anatomy website. The page title is 'Exams' and it includes a subtitle: 'Test yourself on any AclandAnatomy.com volume to which you have a subscription.' Below this is a table with columns for 'VOLUMES' and 'LAST SCORE'. The table lists five volumes with their respective question counts and progress indicators.

VOLUMES	LAST SCORE
Volume 1: The Upper Extremity	52 Questions
Volume 2: The Lower Extremity	68 Questions
Volume 3: The Trunk	--- Not Started ---
Volume 4: The Head and Neck	60 Questions
Volume 5: The Internal Organs	70 Questions

C. Acland's Video Atlas of Human Anatomy

A Sample Question

ACLAND'S VIDEO ATLAS OF HUMAN ANATOMY[®] Wolters Kluwer


HOME VIDEOS ^ EXAMS GLOSSARY A-Z INDEX ABOUT

Exams > Volume 1: The Upper Extremity

Volume 1: The Upper Extremity

[Save Exam & Review Later](#)

3 Incorrect 2 Correct 47 Unanswered



In this anterior view of the right shoulder, what action is being demonstrated?

- A Abduction
- B Adduction
- C Extension
- D Flexion
- E Internal rotation

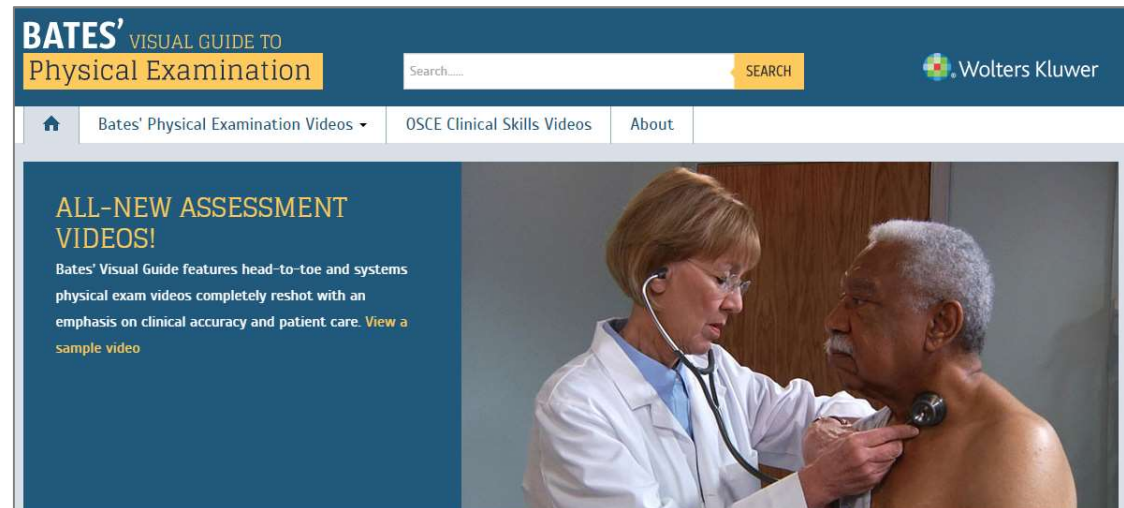
[Submit & View Next Question](#) [Skip & Answer Later](#)

[Save Exam & Review Later](#)

D. Bates Visual Guide to Physical Examination

The Product

- ✓ **Bates' Visual Guide to Physical Examination** is a product that features head-to-toe and systems based physical assessment and clinical skills videos.
- ✓ The videos are divided into two groups;
 - **Bates' Physical Examination Videos**
 - **OSCE Clinical Skills Videos**



D. Bates Visual Guide to Physical Examination

The Content - Examination Videos

The screenshot displays the website interface for 'BATES' VISUAL GUIDE TO Physical Examination'. The main navigation bar includes a search box and the Wolters Kluwer logo. A dropdown menu is open under 'Bates' Physical Examination Videos', listing 18 categories:

1. Head-to-Toe Assessment: Adult	10. Cardiovascular System
2. Head-to-Toe Assessment: Infant	11. Peripheral Vascular System
3. Head-to-Toe Assessment: Child	12. Breasts and Axillae
4. Head-to-Toe Assessment: Older Adult	13. Abdomen
5. General Survey and Vital Signs	14. Male Genitalia, Rectum, Anus, and Prostate
6. Skin	15. Female Genitalia, Anus, and Rectum
7. Head, Eyes, and Ears	16. Musculoskeletal System
8. Nose, Mouth, and Neck	17. Nervous System: Cranial Nerves and Motor System
9. Thorax and Lungs	18. Nervous System: Sensory System and Reflexes

The background of the screenshot shows a video player area with a 'Videos' tab and two video thumbnails: 'OSCE 1: Chest Pain (14:33)' and 'OSCE 2: Abdominal Pain (12:42)'. The OSCE 1 video description reads: 'A 50-year-old school counselor presents with a complaint of sharp chest pains over the prior 2 weeks.' The OSCE 2 video description reads: 'A 64-year-old stockbroker presents with pain in the upper part of the abdomen, which has spread to the back.'

- ✓ Bates' Physical Examination Videos are divided into 18 volumes.
- ✓ The videos cover a range of diverse patient profiles from adult to infant.

D. Bates Visual Guide to Physical Examination

The Content - OSCE Clinical Skills Videos

The screenshot displays the website interface for Bates' Visual Guide to Physical Examination. The main navigation bar includes a search box and the Wolters Kluwer logo. Below the navigation bar, the 'OSCE Clinical Skills Videos' section is highlighted with a red border. This section contains a descriptive paragraph and four video thumbnails with their respective titles and descriptions:

- OSCE 1: Chest Pain (14:33)**
A 50-year-old school counselor presents with a complaint of sharp chest pains over the prior 2 weeks.
- OSCE 2: Abdominal Pain (12:42)**
A 64-year-old stockbroker presents with pain in the upper part of the abdomen, which has spread to the back.
- OSCE 3: Sore Throat (15:08)**
A 17-year-old high school student presents with a complaint of a sore throat, aches, and fatigue.
- OSCE 4: Knee Pain (17:44)**
A 45-year-old teacher presents with pain in the left knee, which makes it difficult to walk.

- ✓ OSCE Clinical Skills Videos help prepare students for the OSCE examinations.
- ✓ Students have the opportunity to develop an assessment, or differential diagnosis, and provide an appropriate diagnostic workup.

D. Bates Visual Guide to Physical Examination

The Questions - OSCE Clinical Skills Videos

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BATES' VISUAL GUIDE TO Physical Examination[®] Search... SEARCH Wolters Kluwer

Physical Examination ▾ Communication and Interpersonal Skills OSCE Clinical Skills About

OSCE 3: Sore Throat ☆ Add to My Favorites ✉ Email **Transcript**

Health History
Physical Examination
Diagnostic Considerations
Diagnostic Workup
Summary

QUESTION:
What are your diagnostic considerations at this point in this age group?

See Also: [pharynx](#) [sore throat](#) PREVIOUS VIDEO NEXT VIDEO
Up Next: OSCE 4: Knee Pain

E. BioDigital Human

The Product

Ovid[®]

What is the BioDigital Human?

The leading software platform for visualizing the human body in interactive 3D.



E. BioDigital Human

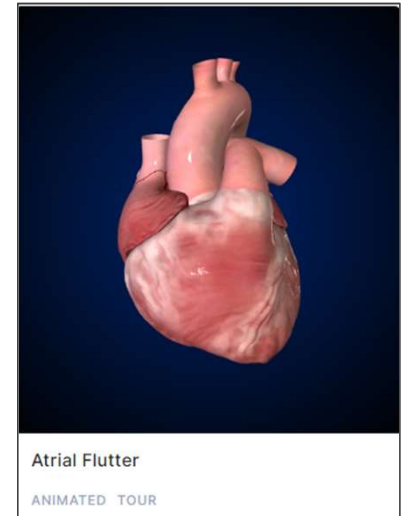
Key Points

The BioDigital Human platform is a medically accurate, virtual map of the human body, composed of over

- ✓ 8,000 individually selectable anatomical structures,
- ✓ 600 simulated health conditions and
- ✓ a toolkit to map and visualize data.

This fully embeddable, cloud-based software is available in eight languages, on any desktop, mobile device, or in AR/VR for use within any educational or clinical workflow.

The BioDigital Human is cloud-based and uses only HTML standards. Embed it within any digital solution, anytime, anywhere, on any device.



E. BioDigital Human

Content Origin

The BioDigital Human is created by a team of experts in the field of art, technology and medicine using a combination of real-world data and leading anatomy references.

3D models have been extensively reviewed internally and externally by BioDigital's in-house medical team and medical experts from academic institutions including,

- ✓ NYU School of Medicine,
- ✓ The Mount Sinai School of Medicine and
- ✓ Johns Hopkins School of Medicine.



Complete Anatomy: Bony Landmarks



Torso: Bony Landmarks



Head & Neck: Bony Landmarks

How It Works



1 Explore our library of 700+ 3D models and 100+ quizzes

4 Use the content within our web or mobile apps or add directly to your online materials or LMS

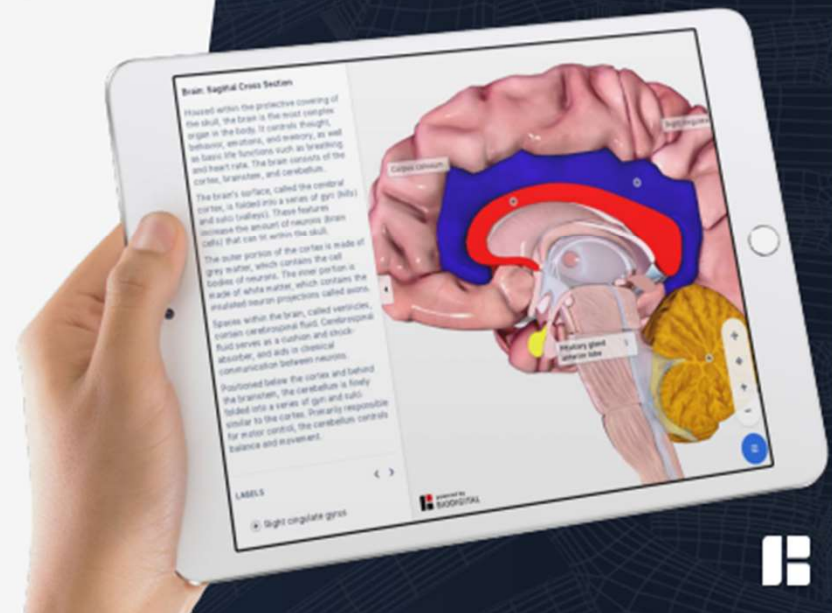
5 Delight your students with interactive, 3D content



2 Use pre-built models or quizzes, or customize them in Human Studio



3 Save models to My Library and organize them into collections



How It Works

Focus: CONTENT

1 Explore our library of 700+ 3D models and 100+ quizzes

Focus: HUMAN STUDIO

2 Use pre-built models or quizzes, or customize them in Human Studio

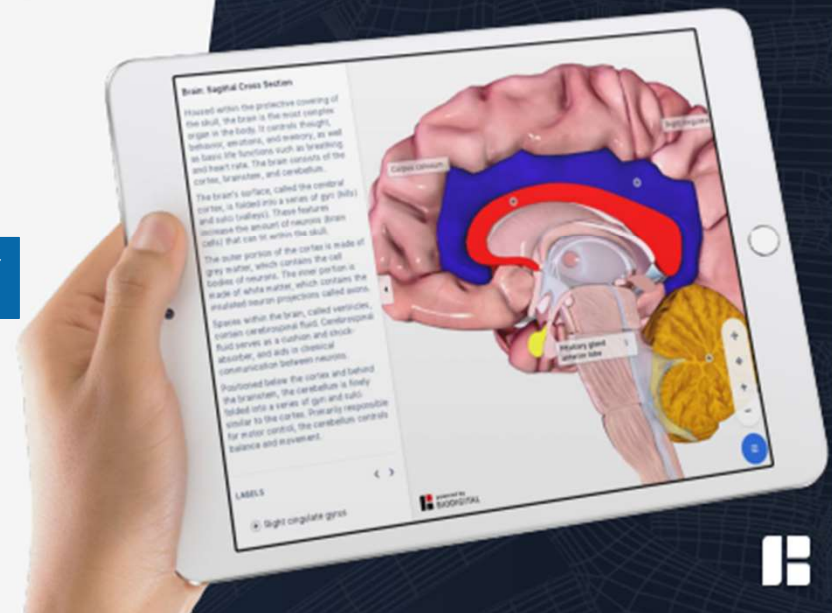
Focus: PUBLISH

4 Use the content within our web or mobile apps or add directly to your online materials or LMS

Focus: MY LIBRARY

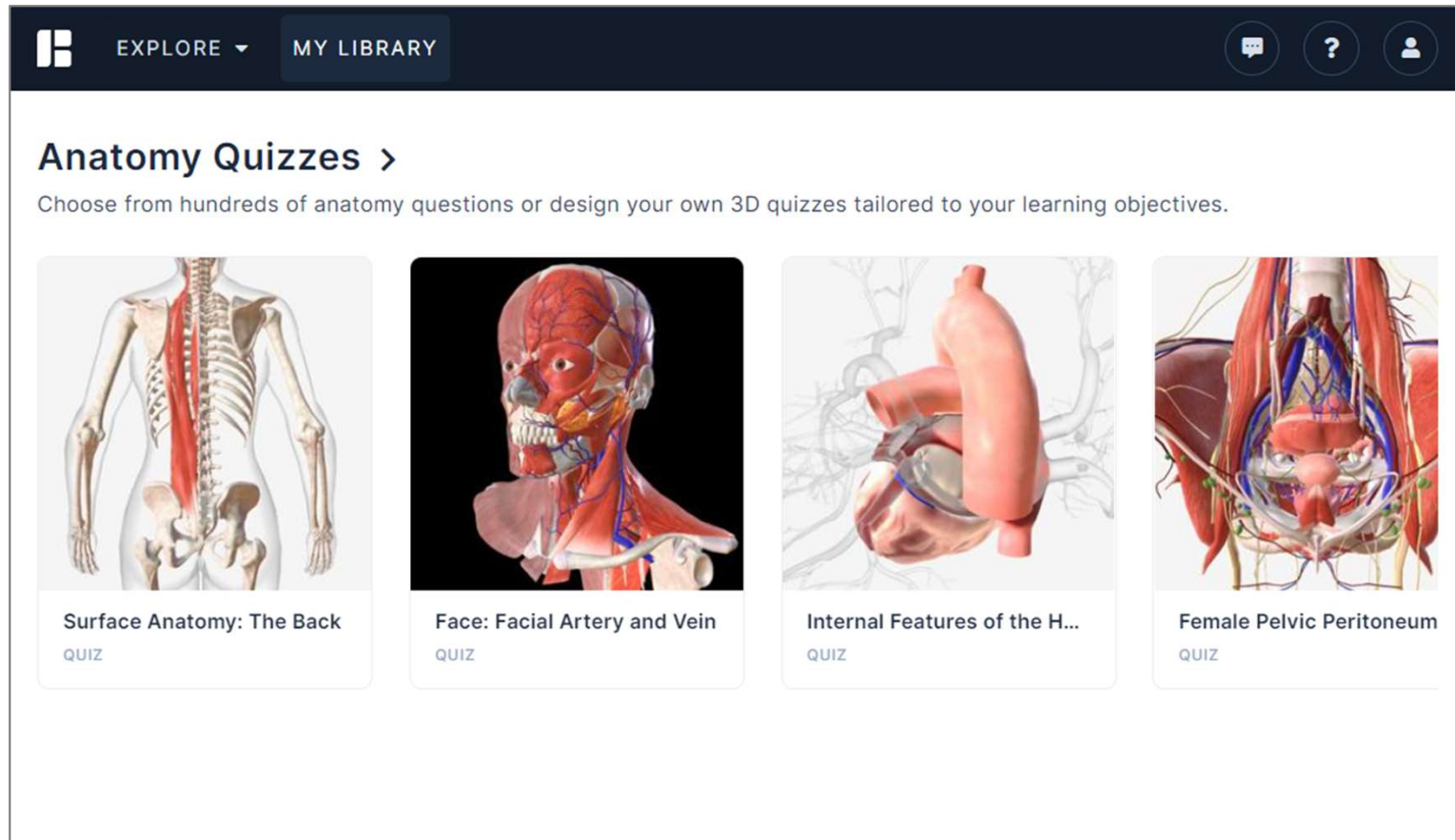
3 Save models to My Library and organize them into collections

5 Delight your students with interactive, 3D content



E. BioDigital Human

The Quizzes



The screenshot shows a web interface for anatomy quizzes. At the top, there is a dark navigation bar with a grid icon, the text "EXPLORE" with a dropdown arrow, and "MY LIBRARY". On the right side of the bar are three circular icons: a speech bubble, a question mark, and a user profile. Below the navigation bar, the heading "Anatomy Quizzes >" is displayed in a bold, dark font. Underneath the heading is a descriptive sentence: "Choose from hundreds of anatomy questions or design your own 3D quizzes tailored to your learning objectives." Below this text, there are four quiz cards arranged in a row. Each card features a 3D anatomical illustration and a title with the word "QUIZ" underneath. The first card shows a human back with muscles highlighted in red and is titled "Surface Anatomy: The Back QUIZ". The second card shows a 3D model of a human face with facial arteries and veins highlighted in red and blue, titled "Face: Facial Artery and Vein QUIZ". The third card shows a 3D model of the heart and its major vessels, titled "Internal Features of the H... QUIZ". The fourth card shows a 3D model of the female pelvic region with the peritoneum highlighted, titled "Female Pelvic Peritoneum QUIZ".

E. BioDigital Human

A Sample Question

The screenshot displays a quiz interface for a BioDigital Human. On the left, a sidebar contains a 'Quiz' section with 'Question 1 of 2'. The question asks to identify structures based on two criteria: 'Opening into the left auricle' and 'Opening of the left atrioventricular valve'. Below the question are two dropdown menus labeled '1' and '2', each with a 'Select' option. A blue 'SUBMIT' button is positioned below the dropdowns. The main area features a 3D anatomical model of the heart with two callouts, '1' and '2', pointing to specific locations. Each callout has a 'Select' dropdown menu. The interface includes a top navigation bar with a 'Back' button and three icons (pencil, plus, and dots). On the right side of the heart model, there are zoom and pan controls (crosshair, magnifying glass, plus/minus, and a blue menu button). At the bottom left, the text 'powered by BIODIGITAL' is visible.

← Back

Quiz

Question 1 of 2

Identify the structure(s):

- Opening into the left auricle
- Opening of the left atrioventricular valve

1 Select

2 Select

SUBMIT

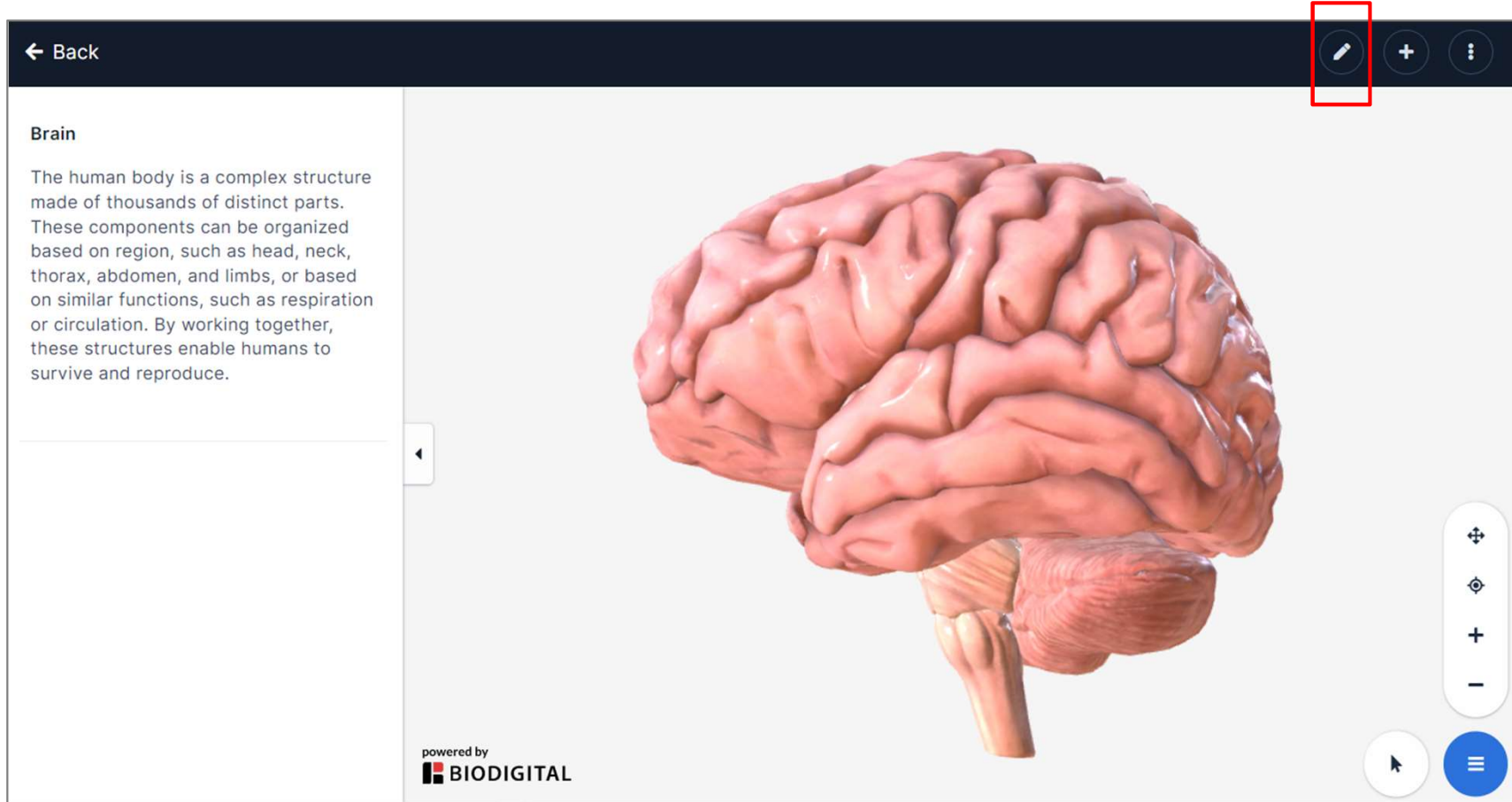
1 Select

2 Select

powered by BIODIGITAL

E. BioDigital Human Studio

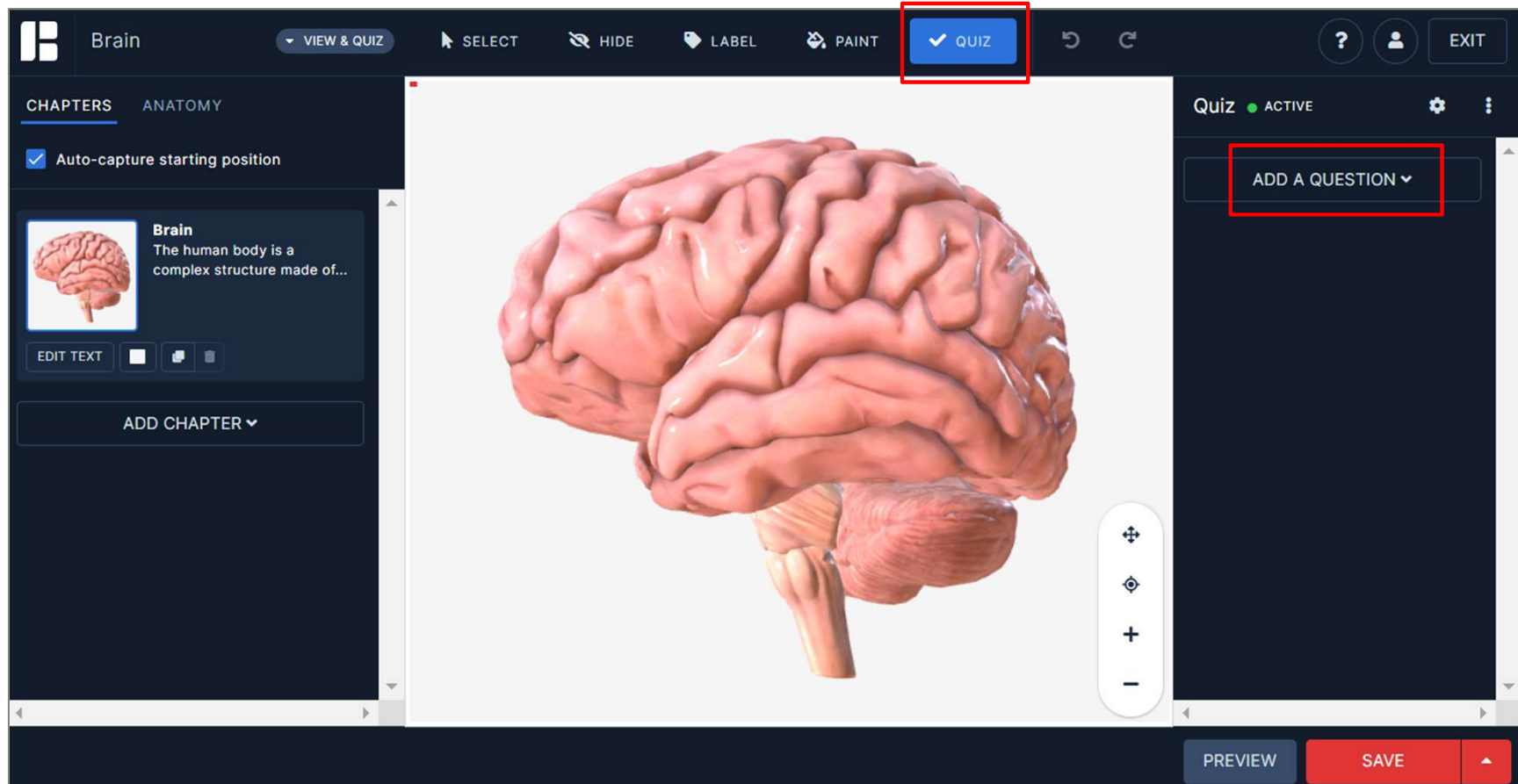
Select a Structure



E. BioDigital Human Studio

Select a Structure

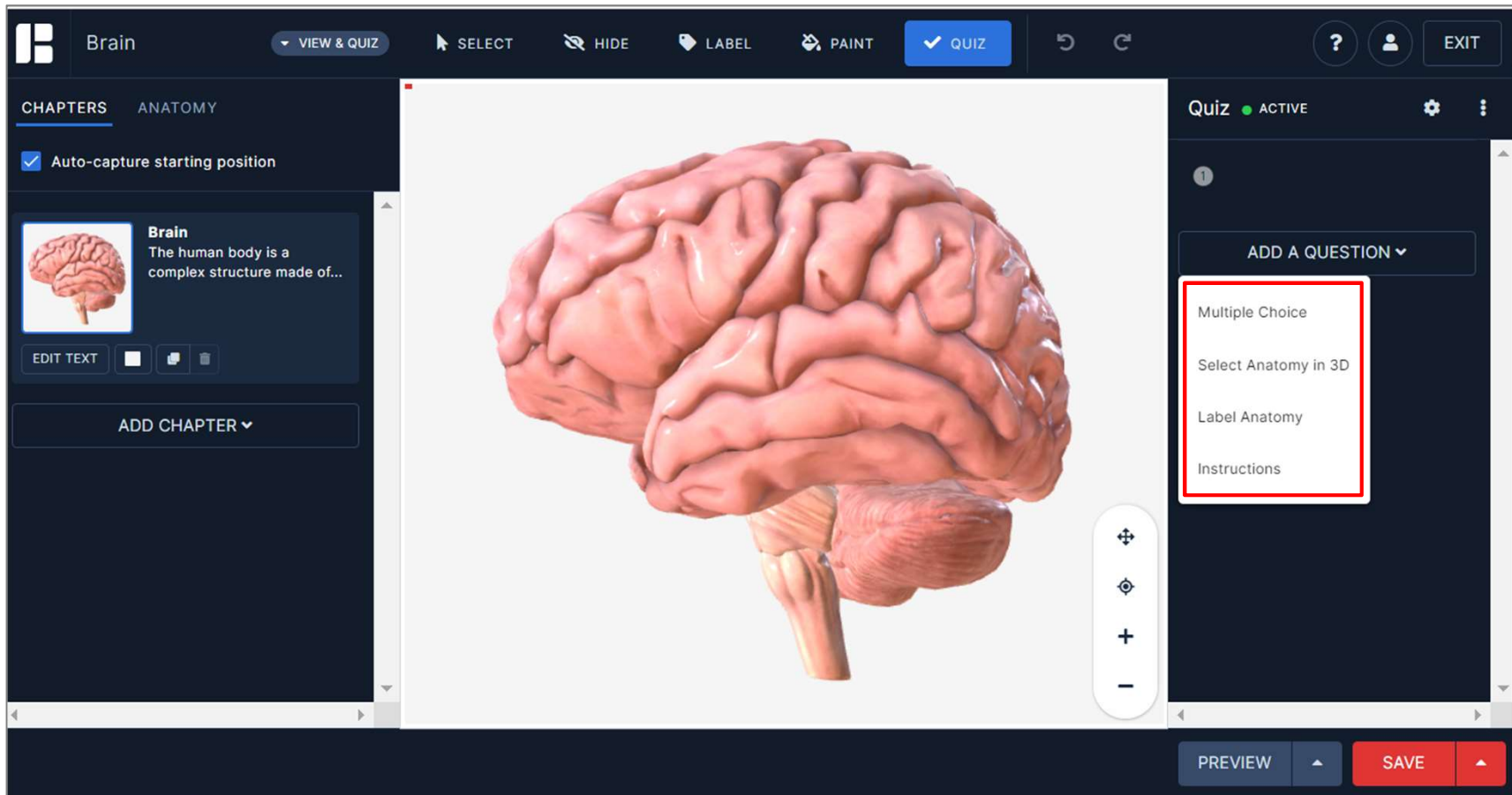
Ovid[®]



E. BioDigital Human Studio

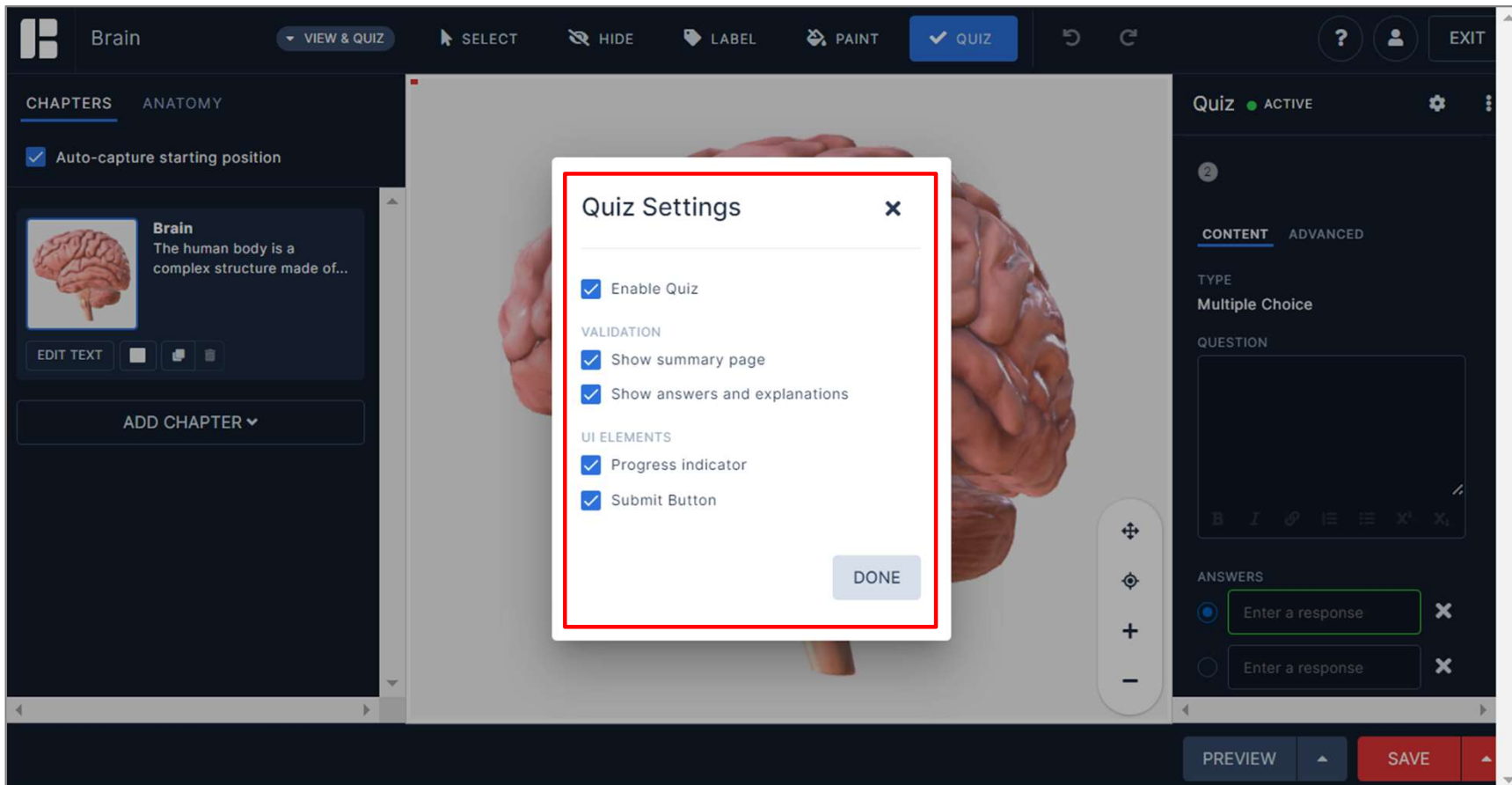
Go to Quiz and Add a Question

Ovid[®]



E. BioDigital Human Studio

Select and Set Quiz Settings



E. BioDigital Human Studio

Publish Your Teaching Materials

The screenshot displays the BioDigital Human Studio interface. On the left, a sidebar contains a 'Brain' section with a descriptive paragraph and a red-bordered box containing the text: 'This is some additional test added by Michael.' Below this is a 'LABELS' section with a list of brain parts: Cerebellum, Medulla oblongata, and Pons. The central area features a 3D brain model with several labels: 'White matter of left cerebral hemisphere', 'Left inferior frontal gyrus', 'Medulla oblongata', 'Left postcentral gyrus' (with a 'READ MORE' link), and 'Left supramarginal gyrus'. On the right side, there are two red-bordered boxes: one containing 'Copy URL' and 'Publish' buttons, and another containing a blue circular menu icon with three horizontal lines. At the bottom right, there is a vertical stack of navigation icons including a home icon, a search icon, and a zoom control with '+' and '-' buttons. The bottom left corner shows the 'powered by BIODIGITAL' logo.

E. BioDigital Human Studio

Publish Your Quizzes

The screenshot displays the BioDigital Human Studio interface. On the left, a quiz panel titled "Quiz" (Question 3 of 3) contains five numbered dropdown menus labeled "Select" and a "SUBMIT" button. The main area features a 3D brain model with a blue highlighted region and five numbered labels (1-5) pointing to specific anatomical features. Each label is connected to a "Select" dropdown menu. A red box highlights the top-left "Select" dropdown, and another red box highlights the top-right "Copy URL" and "Publish" buttons. The bottom right corner includes navigation icons for zooming and a menu icon. The footer indicates the interface is "powered by BIODIGITAL".

Thank you for your time and attention.

Michael Fanning

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Wolters Kluwer

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