IMAIOS

e-Anatomy
User Guide

www.imaios.com

Content

Introduction

e-Anatomy is an interactive human anatomy atlas, developed on the IMAIOS website. It is designed for the use of physicians, radiologists, students and medical imaging professionals.

e-Anatomy has over 27,000 images with CT, MRI and PET image series in axial, coronal and sagittal slices, as well as x-rays and angiography images, dissections, anatomy diagrams and illustrations.

The anatomy atlas features over 8900 labeled anatomical structures with more than 1 million labels available in 12 languages including the Latin Terminologia Anatomica.

e-Anatomy has received many awards from the Radiological Society of North America, the European Congress of Radiology and the French Society of Radiology.

Premium subscription

Some e-anatomy modules are free of charge, others need a premium subscription. The latter provides access to more features. The signs below distinguish them:

PREMIUM   FREE

To subscribe and access the website's Premium content, you need to create a free account in order to log in. If you are not subscribed, you can still test the product, but some information won't be available.

e-Anatomy is also available on tablets and smartphones. You can download the app from the App Store or on Google Play Store.

GET IT ON
Google Play

Download on the
App Store

Registering and creating an account when using e-Anatomy on the website is not necessary for institutional subscriptions with IP address authentication. However an account is required when accessing e-Anatomy on an iOS or Android device (phone and tablet) through an institutional subscription.

The modules

e-Anatomy is organized by region, covering the body from head to toe. Each body region contains several modules, each corresponding to an imaging exams series of illustrations or photographs grouped by anatomical topic.

Brain

MRI brain
MRI axial brain
CT brain
Brain
MRA brain
MR cerebral venography
Arteriography brain
Cranial nerves MRI
Cranial nerves

Head and neck

MRI head and neck
CT head and neck
CT face
Dental CBCT
Skull
Orbit MRI
Eye
Nasal Cavity
Oral cavity
Teeth
CT temporal bone
MRI inner ear and IAC
Ear
Temporomandibular joint
Nasal fibroscopy
Carotid artery - Surgical approach

Spine

MRI cervical spine
MRI lumbar spine
CT lumbar spine
Spine
Radiography spine
Spinal cord

Whole body

CT body (lymph nodes)
FDG-PET/CT whole body
Visible Human Project
Radiography chest abdomen pelvis
Autonomic nervous system

Thorax

Lungs
Mediastinum
Thoracic wall-Breast
CT axial chest
CT chest
Heart
CTA coronary arteries
Coronarography
Integumentary system
Bronchoscopy

Abdomen and pelvis

Magnetic Resonance Cholangiopancreat ography
Digestive system
CT axial male abdomen and pelvis
CT peritoneal cavity
MRI female pelvis
Female pelvis
Laparoscopy female pelvis
MRI male pelvis
Male pelvis

Upper limb

Upper extremity
Radiography upper extremity
MRI upper extremity
MRI brachial plexus
MRI shoulder
MR arthrography shoulder
CT arthrography shoulder
MRI elbow
CT arthrography elbow
MRI wrist
MRI hand
MRI thumb
MRI finger of hand
Arteriography upper extremity
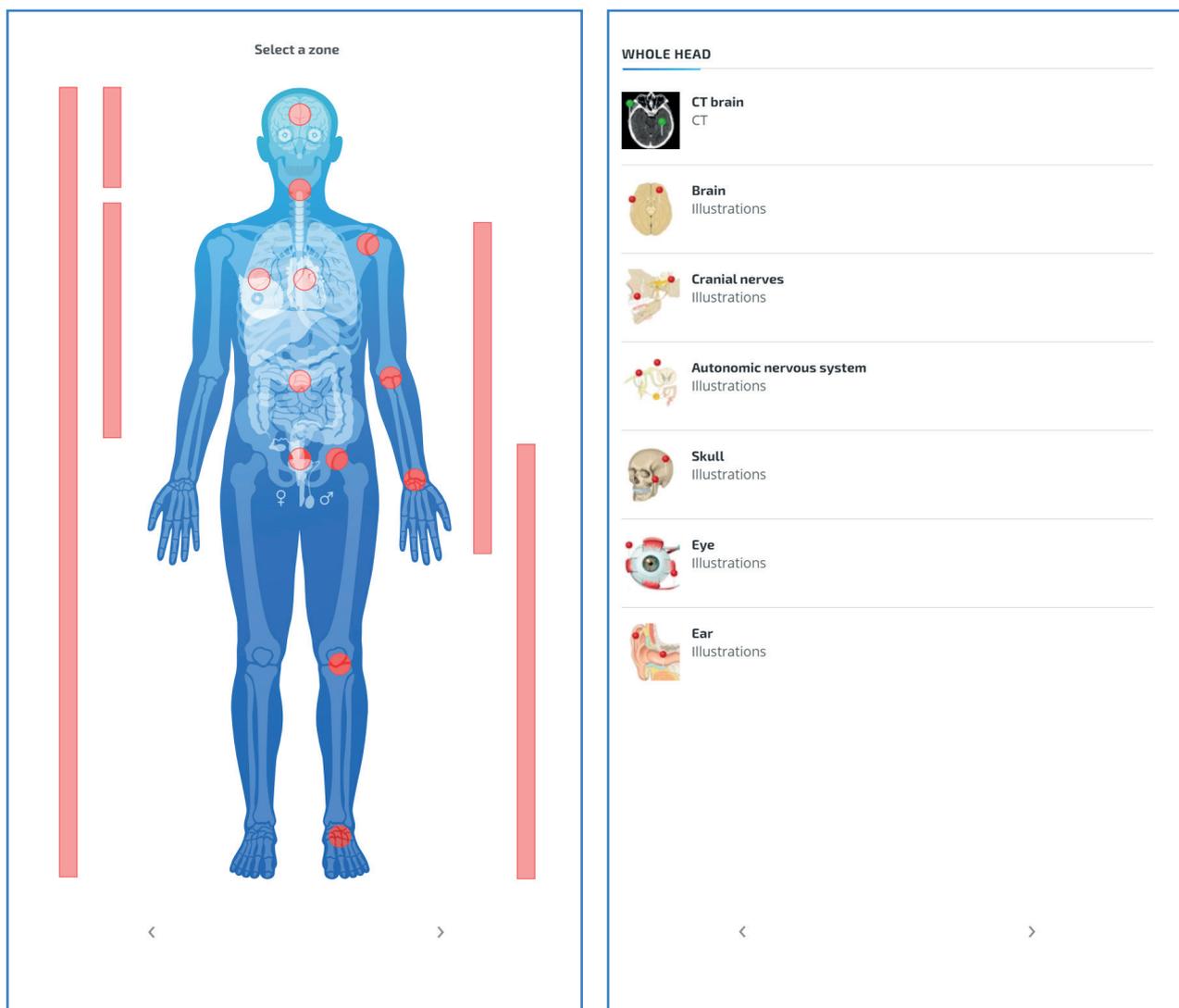
Lower limb

Lower extremity
radiography lower extremity
MRI lower extremity
Arteriography lower extremity
Leg arteries and bones
MRI hip
MRI knee
CT arthrography knee
MRI ankle and hindfoot
Forefoot MRI

Quick links
to the anatomical images

A shortcut menu can be found on every page of e-Anatomy. It takes the form of a human body surrounded by vertical red lines representing the selection of the different areas represented. When the user selects a region, a list appears showing all the modules corresponding to the search zone. Round circles of the same color are also distributed across the figure, allowing the user to select an area. Beneath the figure are two arrows for navigating through the various module groups without having to select a particular region.

Select a zone

WHOLE HEAD

CT brain
CT

Brain
Illustrations

Cranial nerves
Illustrations

Autonomic nervous system
Illustrations

Skull
Illustrations

Eye
Illustrations

Ear
Illustrations

Description
of a module page

 Enables or disables «dark mode»

When the sun is selected, the background of the page is white. When the toggle is set to the moon, the page's initial background changes to black.
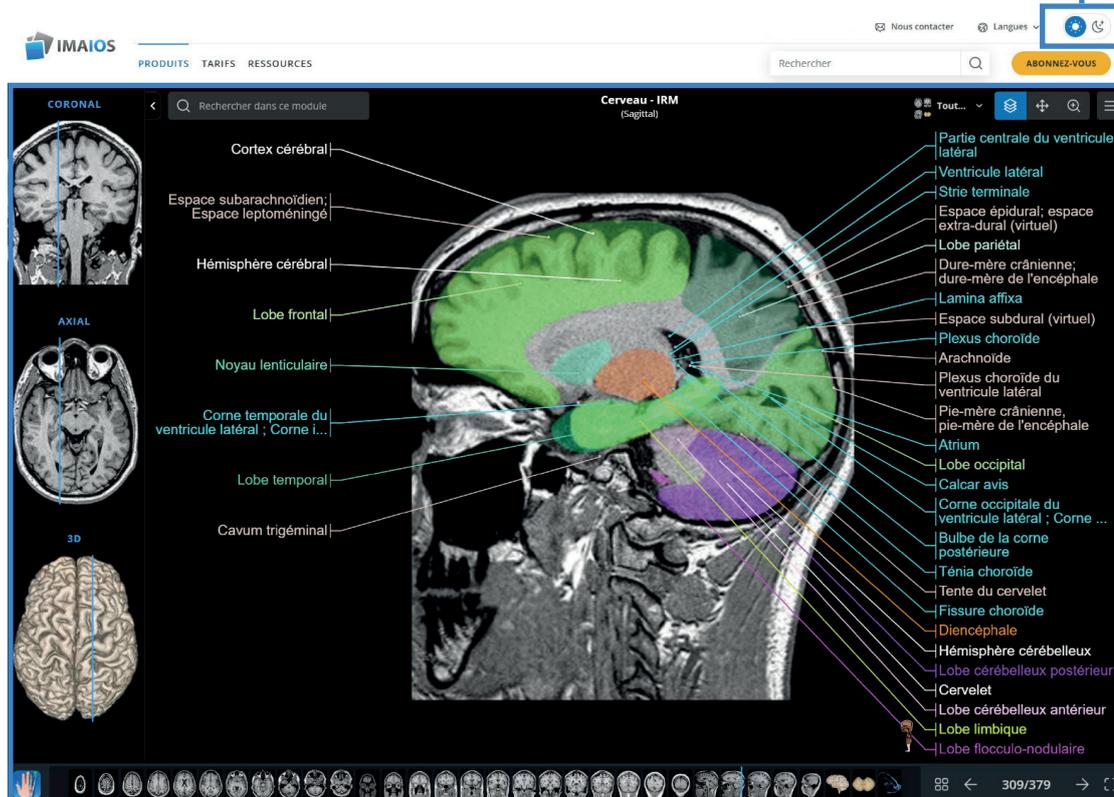
Module and its features

Displays:

• quick access to module groups

• list of figures illustrating the module description
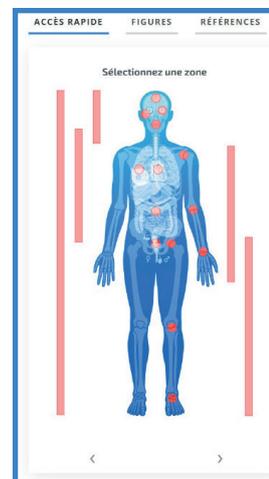
• Bibliographic references

Module description

List of all anatomical structures used in the module

Description
of the module

The interface

Toolbar

SAGITTAL

CORONAL

3D

Knee - MRI
(Axial)

All series

Anterior surface
Patella
Apex of patella
Articular surface
Lateral patellar retinaculum
Patellar surface
Intercondylar fossa
Anterolateral ligament
Anterior cruciate ligament
Lateral epicondyle
Lateral condyle
Groove for popliteus
Popliteus
Fibular collateral ligament
Oblique popliteal ligament
Biceps femoris (Short head)
Fabella
Plantaris
Lateral head of gastrocnemius

Medial patellar retinaculum
Posterior cruciate ligament
Tibial collateral ligament
Medial epicondyle
Medial condyle
Tendon of sartorius muscle
Gracilis (Tendon)
Semimembranosus (Tendon)
Medial head of gastrocnemius
Semitendinosus (Tendon)

30/120

Scroll bar

Orientation

Image gallery

Cross-reference bar
Shortcut towards e-Anatomy's homepage

Labels

Full screen mode
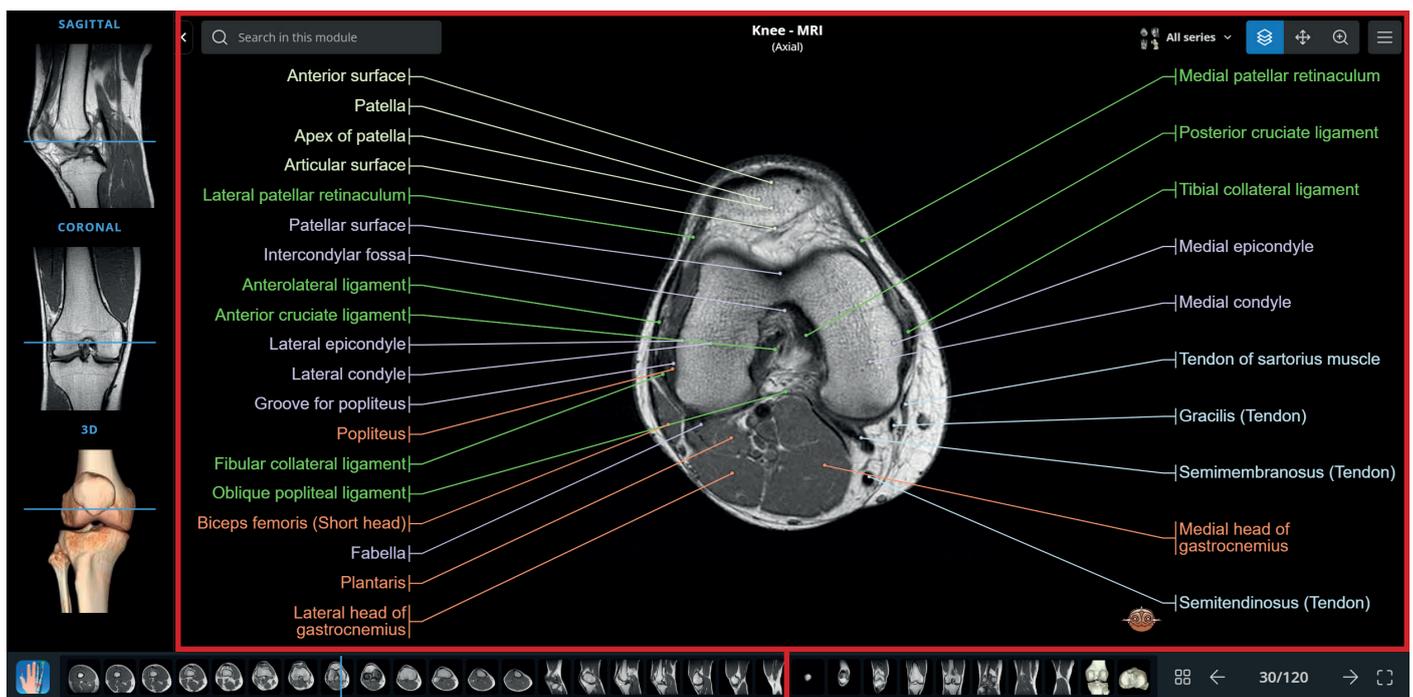
Scroll through the images

The user holds the left button of the mouse and moves it up or down to scroll through the series of images. The user can also position the cursor on the image and use the mouse wheel or the left, right, up and down arrows on the keyboard.

To use this feature, you must make sure the module page has been selected before and the mouse cursor is positioned inside the viewer (see below).

Tip: If you select the full screen mode (double click with the mouse inside the viewer) you won't accidentally scroll down to the bottom of the page instead of scrolling through the images.

Reverse scroll mode: There is a function that allows you to reverse the scrolling direction of images. To do this, simply press the «i» key on the keyboard and then scroll through the images. The action of this function is visible in the menu bar under "advanced settings".


Viewer frame

Cross-reference

The cross-reference bar allows you to situate yourself thanks to the different views displayed. The blue line represents the position of the current image. It can also be used to navigate through the images by holding it down with the left button of the mouse and moving it.

If a module contains several series, you can click on the titles (sagittal, axial, coronal...) to change series. This allows direct access to the corresponding series.
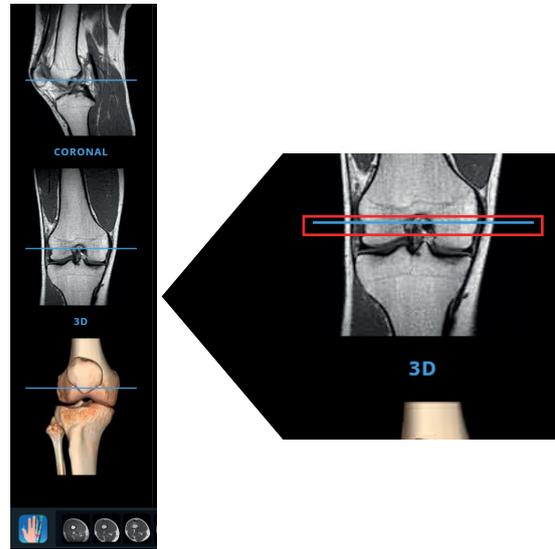
Scroll bar

● If you hover the mouse cursor over a thumbnail image, a small window will be displayed with the name of the area. If you click on it, the image will appear on the screen along with its labels. You can also move the cursor by holding down the left button of the mouse to scroll through the images.

● On the right side of the menu is the total number of images and the number of the slide selected. You can browse the images by clicking on the arrows or by entering an image number.
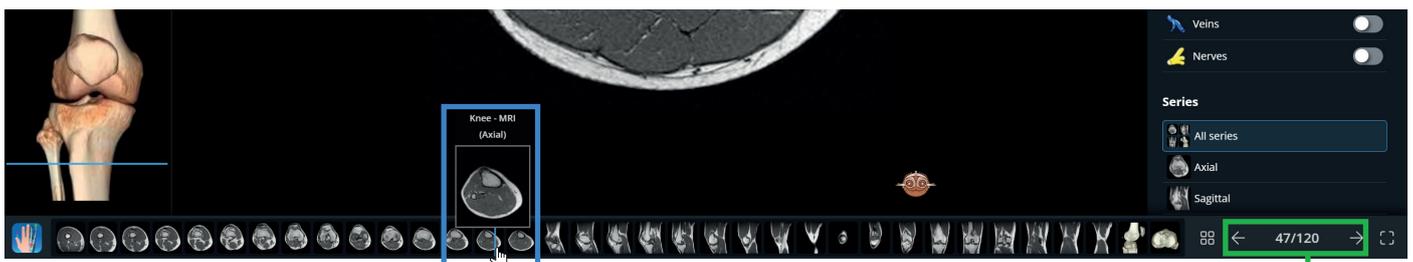
Info window

Total number of images and number of the image selected
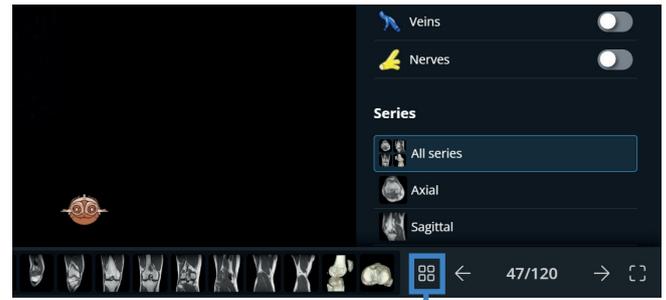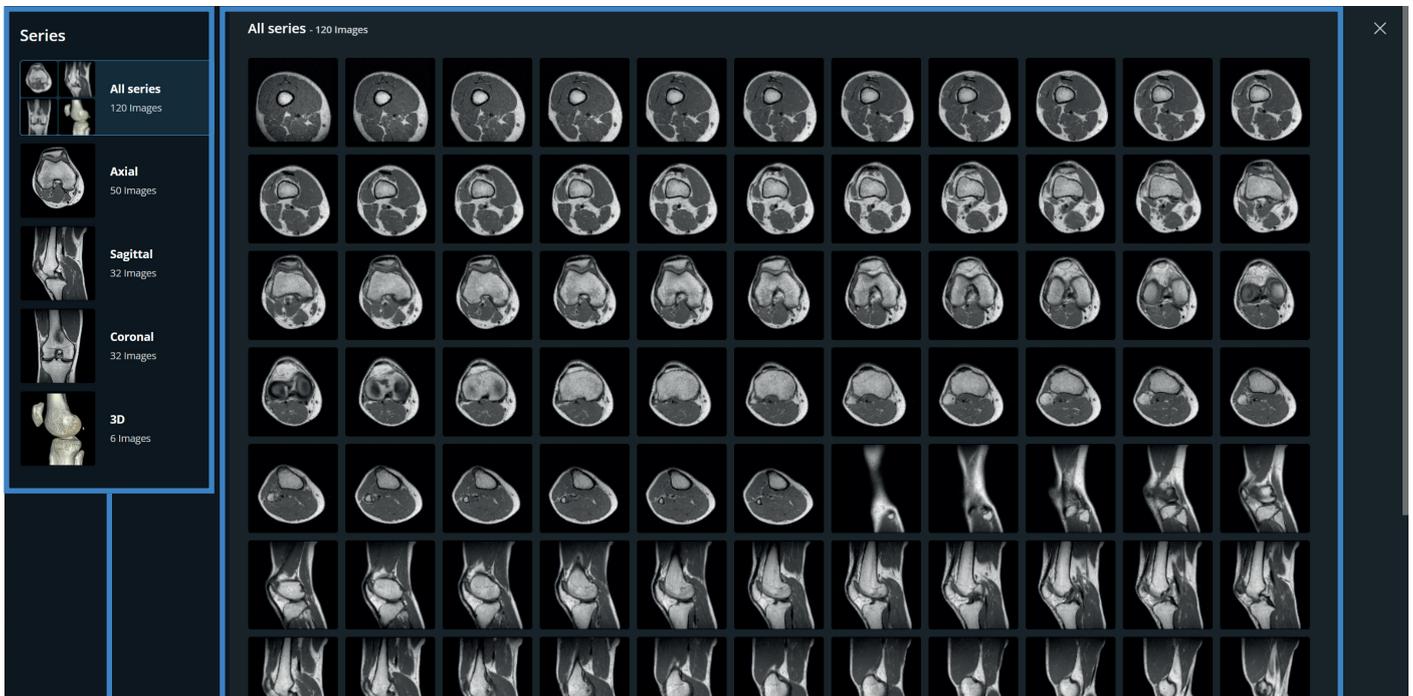
Gallery

Bottom right is the gallery, it allows you to present all the images of the module as a mosaic (gallery).

You can choose the series from the menu on the left. All images from the selected series will be displayed on the right.

By clicking on one of the images, the user is taken directly to it in the module.
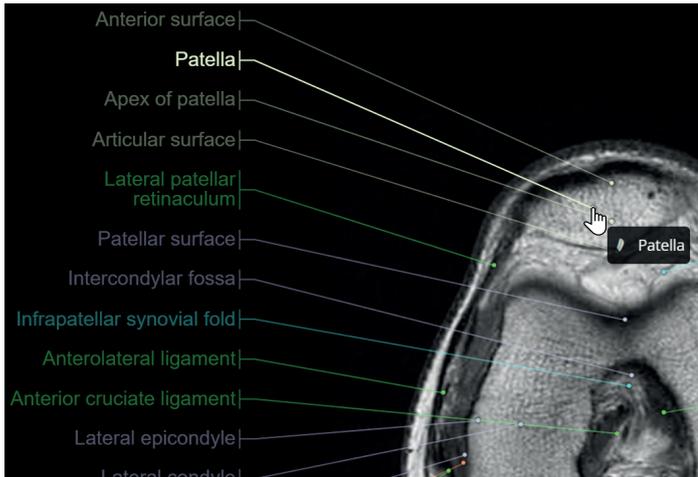

Gallery

Mosaic of all the images in the series

List of all the series available in the module

The labels

The points on the labels are clickable. The user can hide some labels of the image by clicking on the points. Similarly, you can choose to add the labels that are not displayed by clicking on the isolated points. The settings for displaying a structure depend on the filters selected (see section «Anatomical structures» p.19).

Each label is a link. If you click on it, a panel with the following information will appear:

- A definition of the term (sometimes available in English only).
- A list of series in which this label appears. They can be in the current module or in another e-Anatomy module.
- The anatomical hierarchy of this structure in anatomical terminology.
- The translations of this anatomical term in the different languages available on e-Anatomy.

Anatomical structure information panel

Description of a structure

Patella

Patella

Definition

The **patella**, the body's largest sesamoid bone, resides within the quadriceps tendon and is positioned in front of the lower end of the femur.

It takes the form of a triangular shape, with its apex pointing downward. The upper border, known as the base of the **patella**, serves as an attachment site for the rectus femoris muscle in the front and the vastus intermedius muscle in the rear. In addition, the **patella** has two other

See more ⌄

Latin synonym: Os patellare
Synonym: Knee bone; Patellar bone

In this module   See more

In other modules

**A description** of the anatomical structure.

List of series within the current module or in another module in which this anatomical structure appears. By clicking on one of them, it opens a mosaic of all the images containing this anatomical structure available in the selected module.

Anatomical hierarchy

Human anatomy 1

Systemic anatomy > Bones; Skeletal system > Bones of lower limb > Free part of lower limb > Patella

Underlying structures:
Base of patella
Apex of patella
Articular surface
Anterior surface
Fabella

Human anatomy 2

Comparative anatomy in animals

Patella
Patella

Anatomical hierarchy: it allows you to retrace the anatomical hierarchy.

Translation

LA Patella
EN Patella
FR Patella
DE Kniescheibe
ES Patella
ZH 髌骨
JP 膝蓋骨 (しつがいこつ)
IT Rotula
PT Patela
RU Надколенник
PL Rzepka
KO 무릎뼈

Translations: it displays corresponding translations of the different languages available on e-Anatomy.

Displaying labels
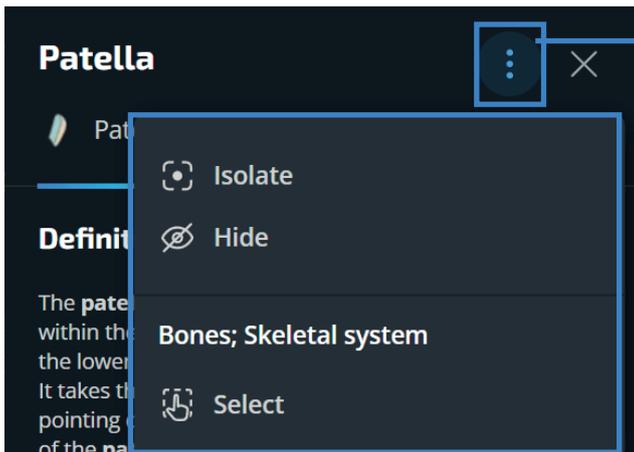
Opens the menu of features related to the anatomical structure.

Isolate: Isolates the anatomical structure to display only the images containing this label. Right-clicking on a label or on its point displays a menu that also allows you to isolate it.

Hide: Hides or reveals the anatomical structure in the module.

Select: Selects the filter corresponding to the anatomical structure and deactivates all others to display only the labels associated with this filter. A right click on a label or on its point displays a menu that also allows to select only the corresponding filter.

Module features

Search bar

The search engine of the module allows you to search for an anatomical structure (present in the module) and to isolate it on the images.

If you start typing a term in the search bar, a list of suggestions will appear. Just choose one.

To reset the search, simply just click on the cross to the right of the search bar or on the cross next to the isolated label.
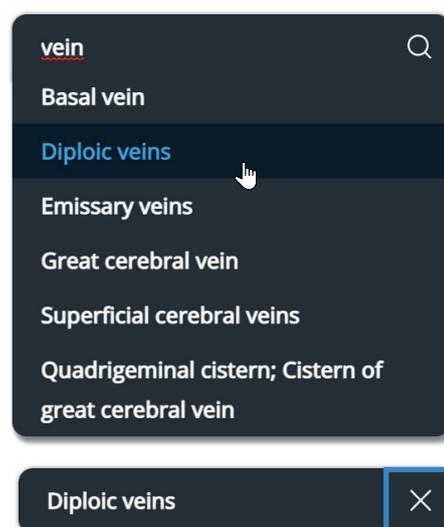
Navigation tools

These three tools are used by holding down the left button of the mouse and moving the cursor. The panel can be moved with the mouse.

Allows you to scroll through the images.

Allows you to move the images in the viewer frame. It can also be activated by clicking on the mouse wheel.

Allows you to zoom in or out on the image. It can also be activated by right clicking with the mouse.

Transformation tools

Rotates the image 90° to the left or right.

Flips the image horizontally or vertically.

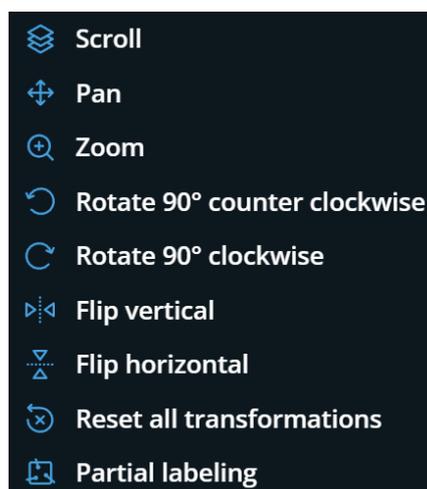Resets all transformations.

Description of the menu

This icon opens the side menu when hidden. It brings together all the tools and features used to customize the module.

The pin allows the side menu to stay open. When the pin isn't activated, the pin is empty and the menu is masked as soon as you perform an action. When you click on the pin it is activated and changes color. The menu then remains visible.

Activates and deactivates the module's full-screen mode.

Scroll
Pan
Zoom
Rotate 90° counter clockwise
Rotate 90° clockwise
Flip vertical
Flip horizontal
Reset all transformations
Partial labeling

 A right click of the mouse in the viewer frame can also open a quick menu containing a summary of the main features.

Labeling tools

Practice: Displays labels as numbers to enter training mode.
By hovering over a number with the mouse, the corresponding label is displayed.

Pins : Displays the labels as pins. By hovering over a pin with the mouse, the corresponding label is displayed. By clicking on the pin with the mouse, the label remains displayed and is only removed when the mouse is clicked away or the image is changed.

Limites labeling : Delimits an area that can be moved and resized with the mouse. The labels are then displayed only in this rectangular area. It can also be activated by holding down with the left mouse click.
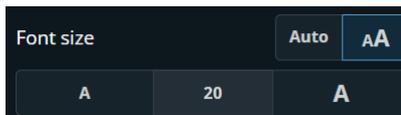
Allows you to activate the automatic or manual font size adjustment mode.

Display tools

Orientation: Displays or not the orientation icon. This can be moved with the mouse.

Show/Hide cross references: Shows or hides the cross-reference panel.

Dark mode: Activate or disable dark mode.
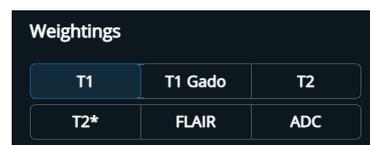
Allows you to adjust the opacity of the overlay zones.

Allows you to take a screenshot.

Language

Allows you to choose the language in which the labels are displayed, independent of the language in which the interface is displayed.
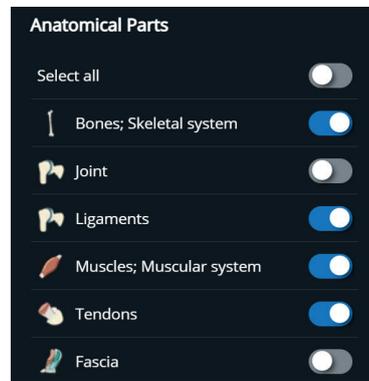
Contrast

On certain modules, the contrast can be altered.

Anatomical structures

The labels on the images can be selected according to the type of anatomical structure desired.

You can select all of them, or choose to display only the desired ones for a better readability.

Series

This feature provides direct access to a series of images in the module.

All series can be displayed at the same time or each can be displayed individually.
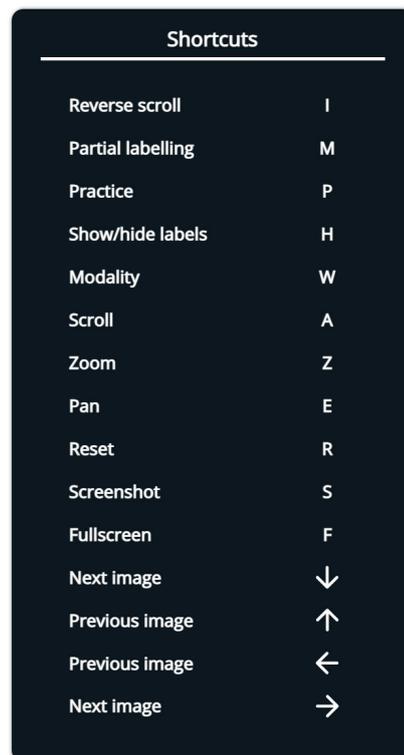
Advanced Settings

Reverse scroll: Enables or disables the reverse scroll mode.

Show shortcuts: Displays a list of available keyboard shortcuts. The «ctrl» key on Windows and «control» on Mac on the keyboard can also display this list of shortcuts.

Reset: Resets to default settings.

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