

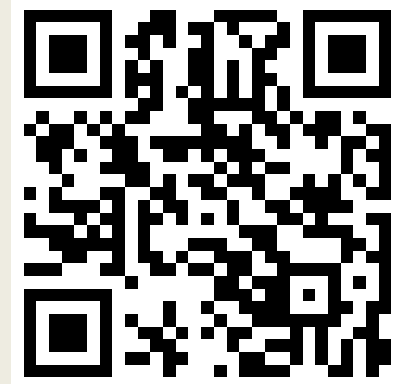
PRIMAL PICTURES

3D 互動式人體解剖資料庫

INNOVATING MEDICAL AND ALLIED HEALTH EDUCATION
WITH 3D ANATOMY TEACHING AND LEARNING TOOLS



網頁版



App版

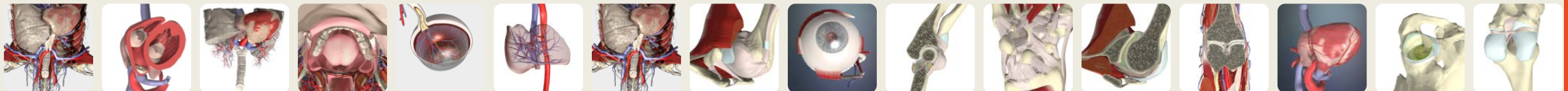
ANATOMY

- 教科書繁多又厚重
- 實驗室和大體有限
- 受時間地點影響



PRIMAL PICTURES介紹

- 英國Informa 出版集團提供
- 25年：**業界領先**的線上醫學教育出版商
- 用戶：全球超過1200所大學和醫院，50萬個用戶
(劍橋，哈佛，加州，台灣大學，成功大學，臺北醫學大學，高雄醫學大學，台中榮民總醫院，香港大學，香港中文大學，北京大學，上海交通大學，新加坡大學...等)
- 內容：掃描**真實大體**，透過**核磁共振(MRI)**影像收錄。6500+個特定器官、身體部位或解剖系統的高精度3D動態互動模型
(包括**3D解剖圖、大體圖片、核磁共振成像、X光、動畫、視頻和音頻**等)



PRIMAL PICTURES可以做什麼？



教學

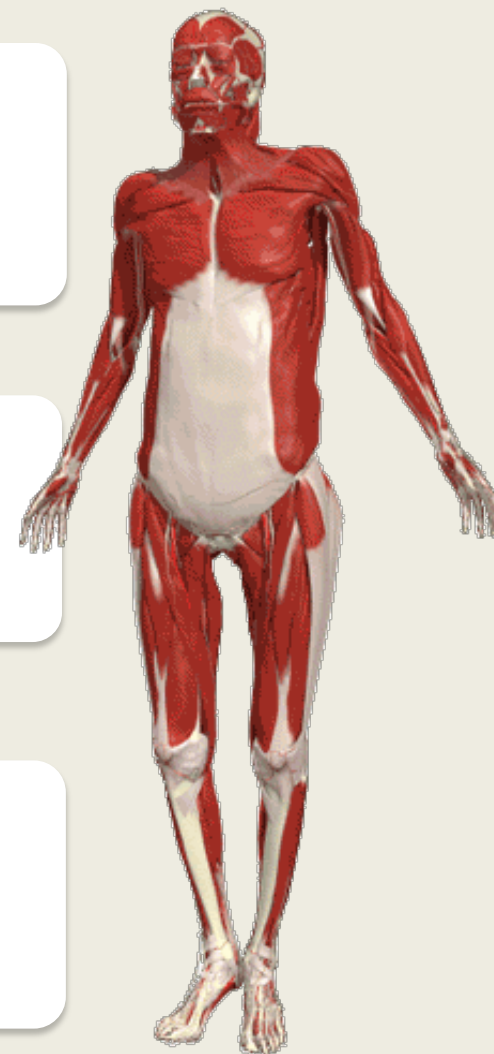
- 輔助**解剖學**、**生理學**和**醫學**教育課程
- 詳細了解人體結構與功能、生物學特性等資訊



臨床


- 持續的**臨床專業**學習發展
- 為臨床專科相關研究提供培訓工具

- 為外科醫生更好地準備複雜的手術提供協助
- 進行**病患衛教**，滿足患者了解當前醫學資訊




www.anatomy.tv

訂閱模組


Search 


TITLES BROWSE INDEX RESULTS


3D Atlas 


3D Atlas

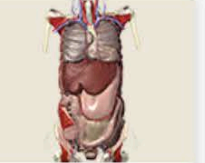
- 3D Real-time
- Functional Anatomy
- Anatomy and Physiology
- Imaging
- Clinical Specialties
- Therapy
- Language Editions
- Other Products
- Quizzes and Activities

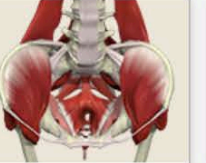
Head and Neck 


Spine 


Shoulder and Arm 


Forearm, Wrist and Hand 


Thorax and Abdomen 

Pelvis and Perineum 


Hip and Thigh 


Knee 

Leg, Ankle and Foot 

3D Real-time 

English Latin Chinese Spanish Portuguese German Japanese

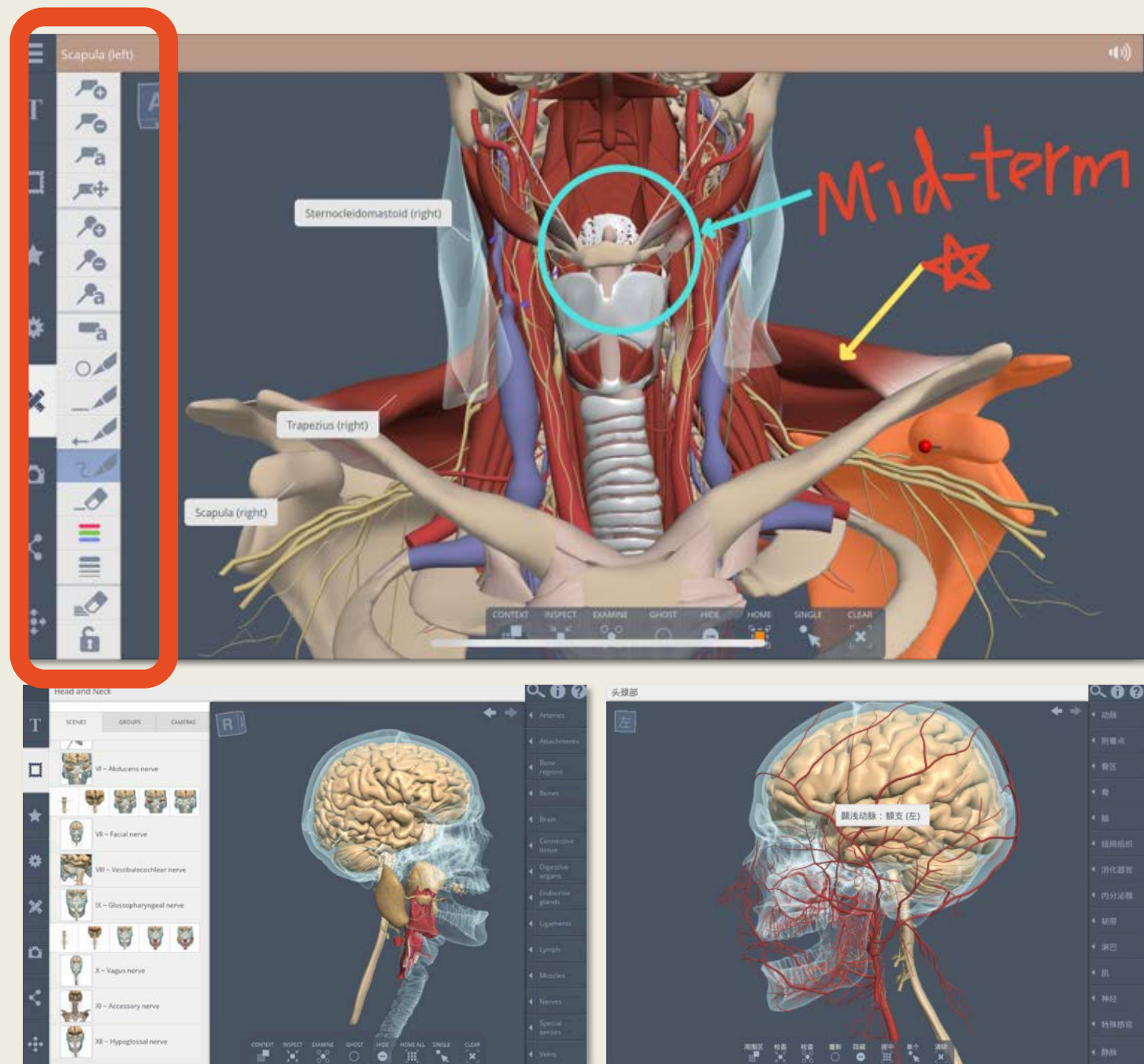
Download on the App Store 

GET IT ON Google Play 

3D Real-time

使用真實大體掃描數據,並製作成人人性化操作平臺,使用者可以針對**12組模組**、**3000多個組織**進行人體解剖的深入瞭解,同時還可完全根據自己的需求**客製化解剖圖片**。

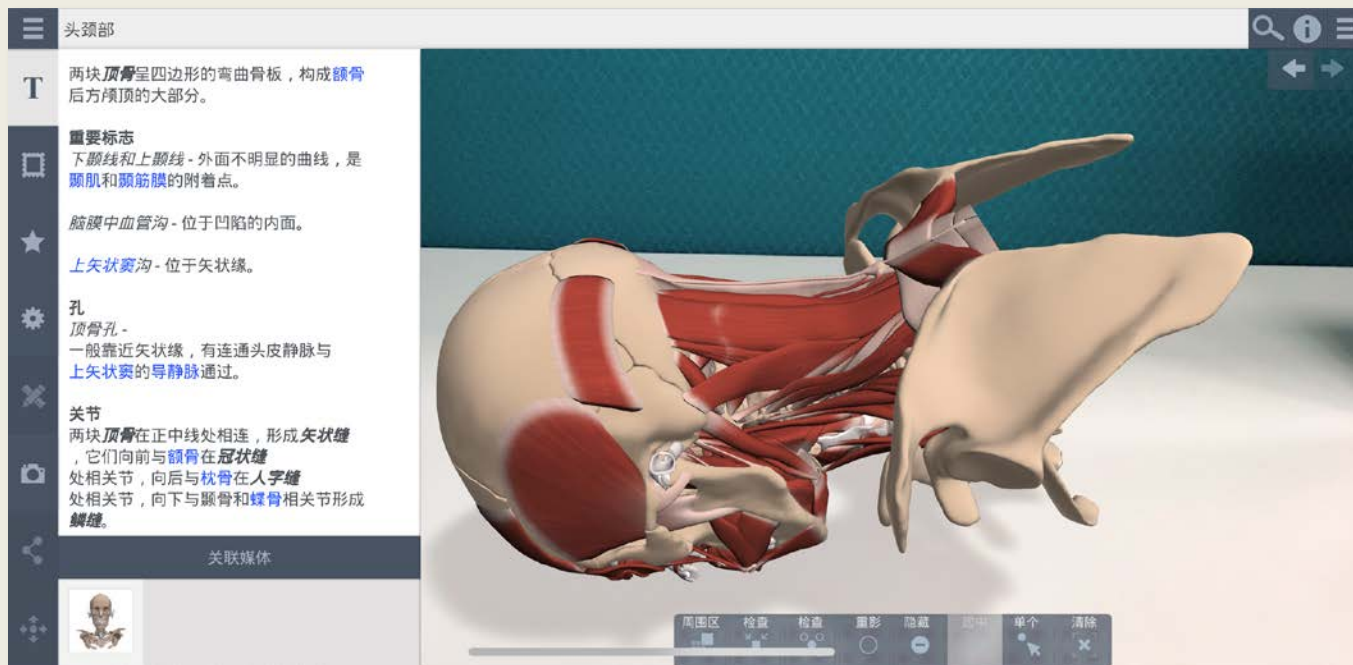
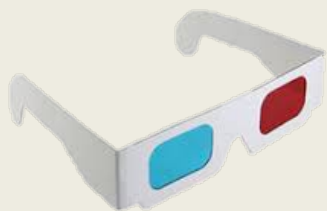
- 支援多國語言 (支援**簡體中文**)
- 支援不同層級結構檢視
- 360度**任意角度**旋轉檢視
- 多種圖片編輯工具
- **自訂影像輸出**
- 支援人體結構**透明化**呈現



3D Real-time

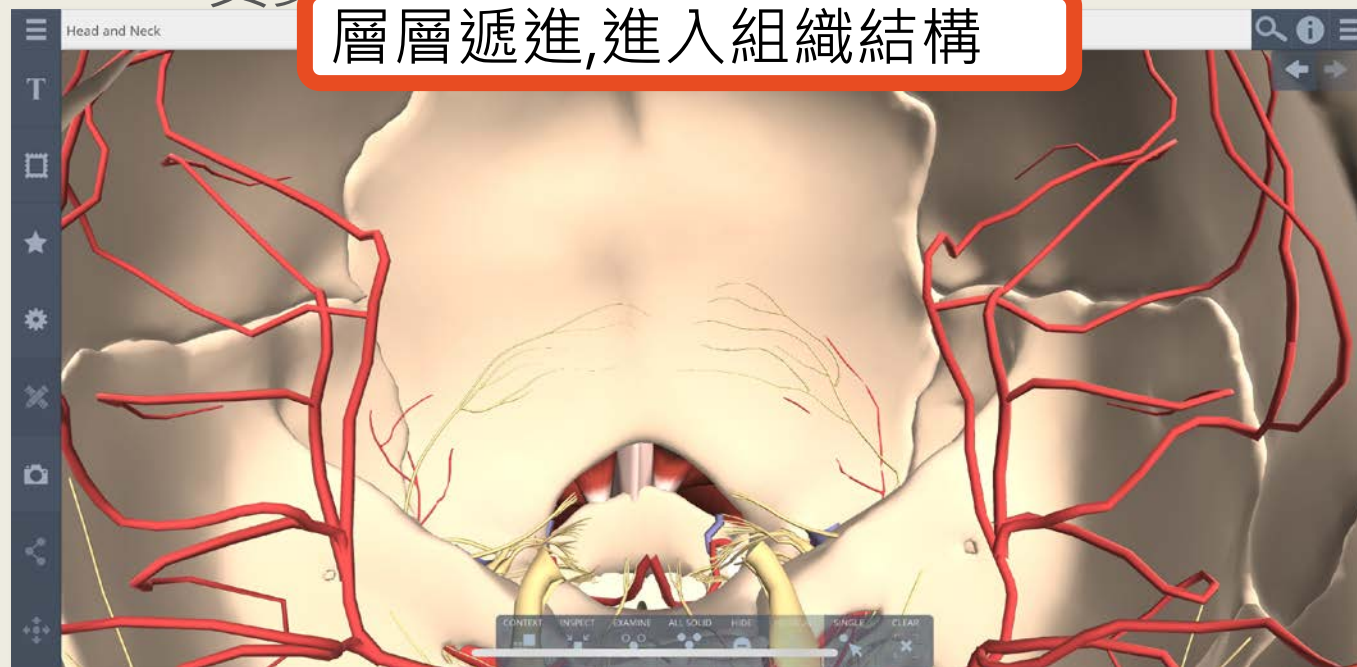
使用真實大體掃描數據,並製作成人人性化操作平臺,使用者可以針對**12組模組**、**3000多個組織**進行人體解剖的深入瞭解,同時還可完全根據自己的需求**客製化解剖圖片**。

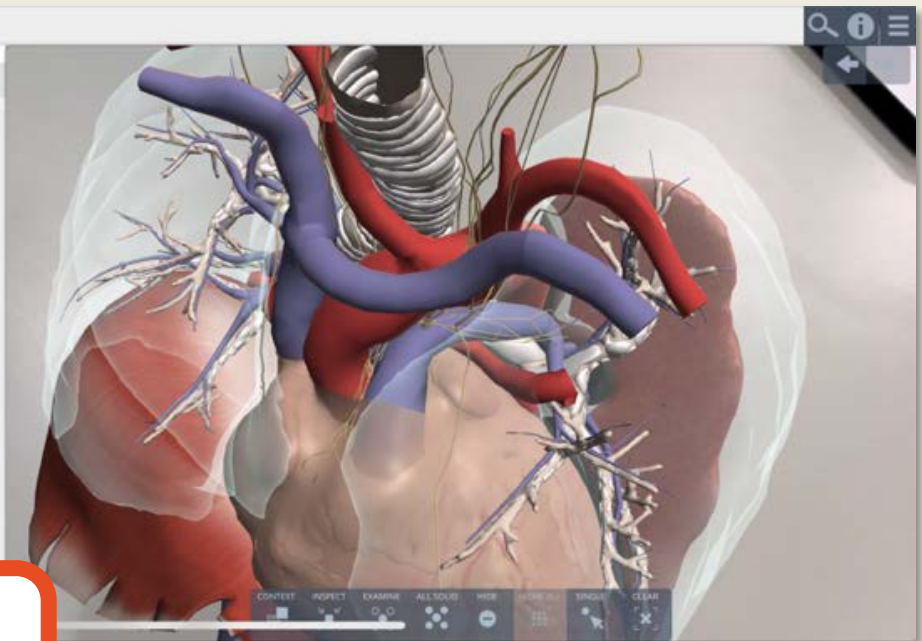
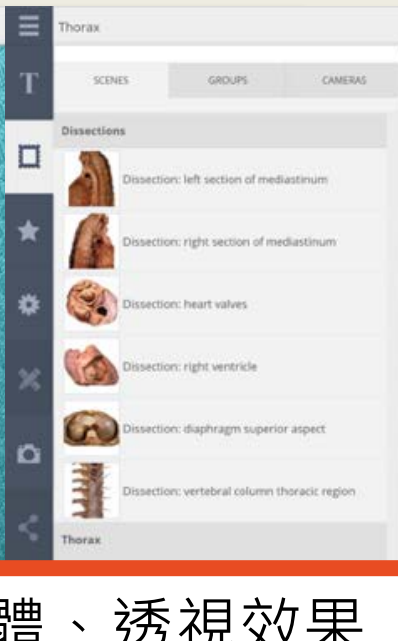
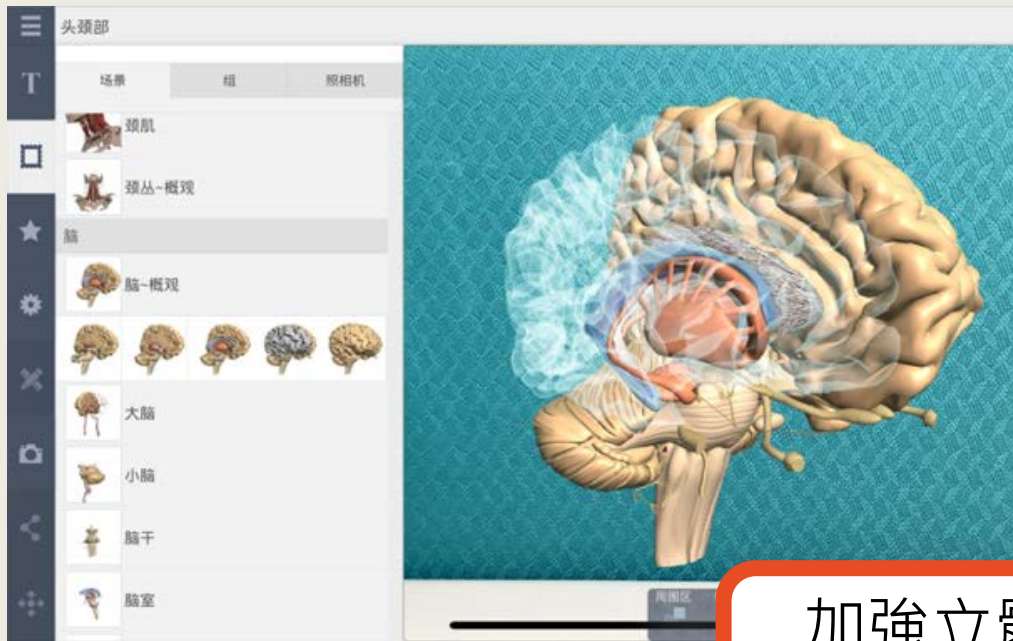
- 真實大體圖與3D圖片**對照學習**
- 可使用**3D眼鏡**,呈現**VR虛擬立體透視**
- 手機**APP**,支援**AR擴增實境**功能



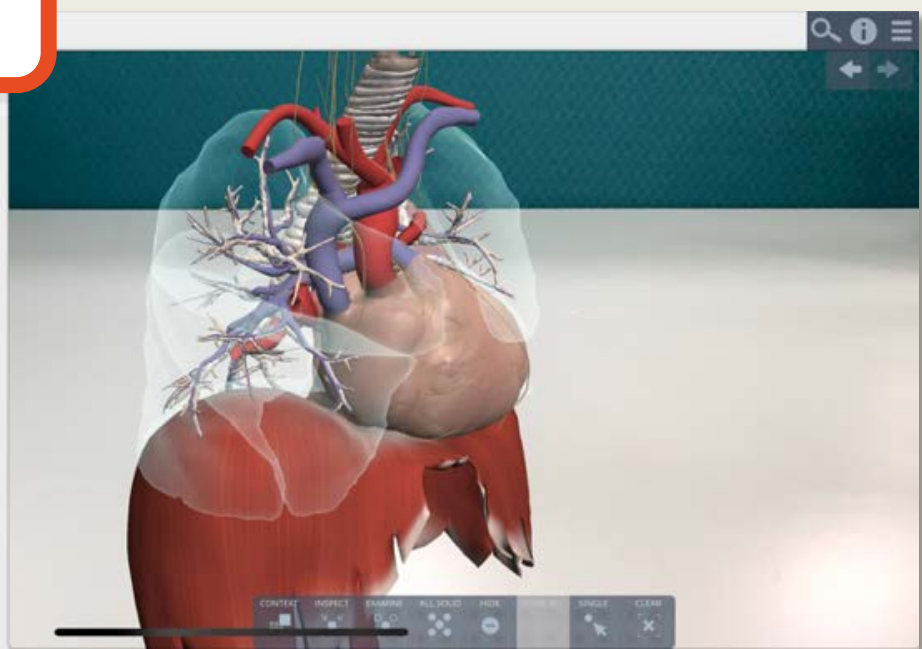
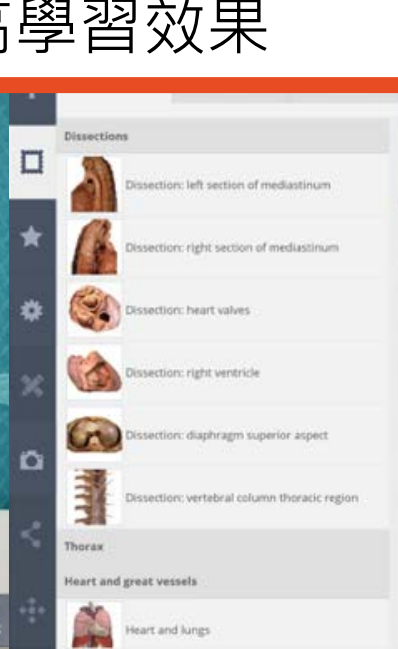
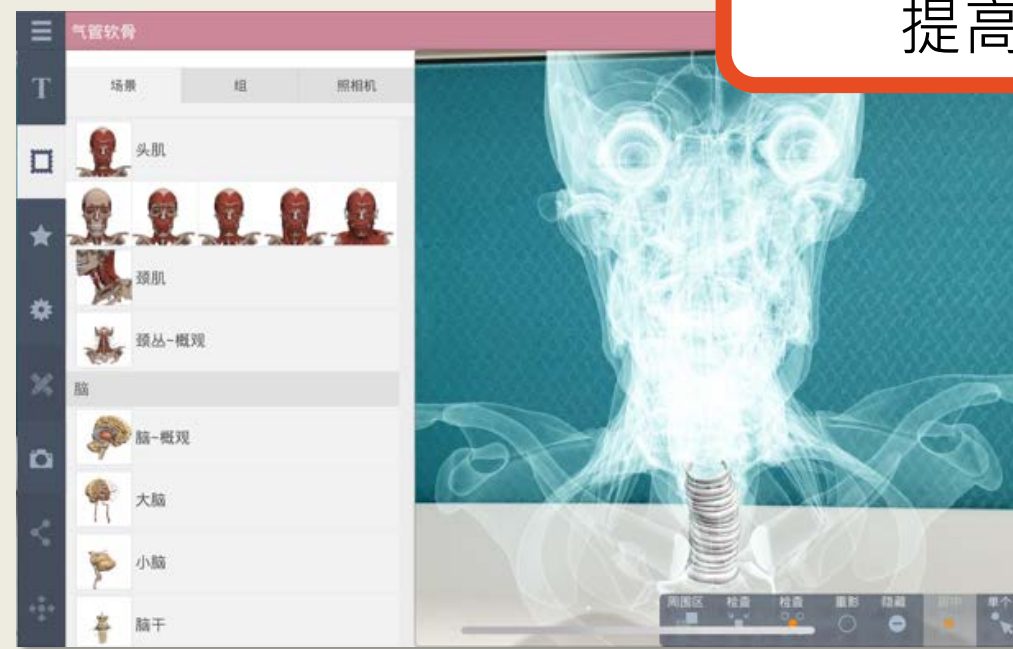
真實人體的顏色 解剖圖並着色

層層遞進,進入組織結構





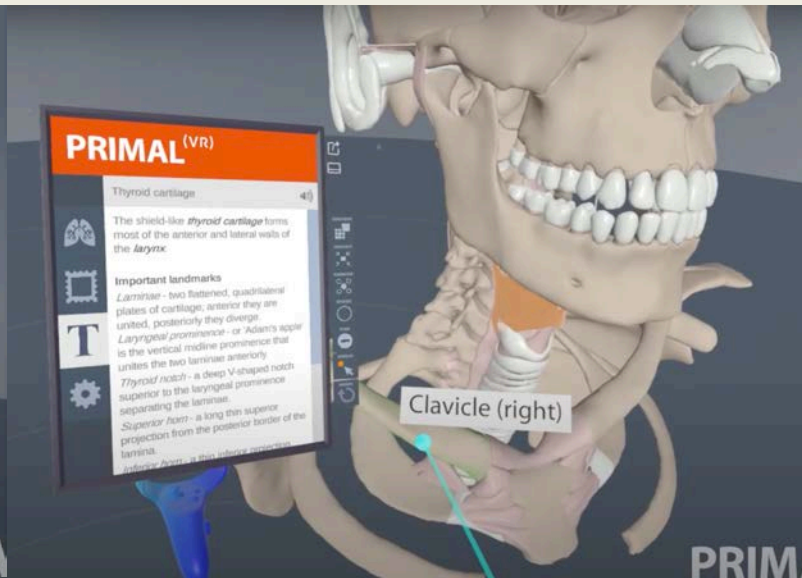
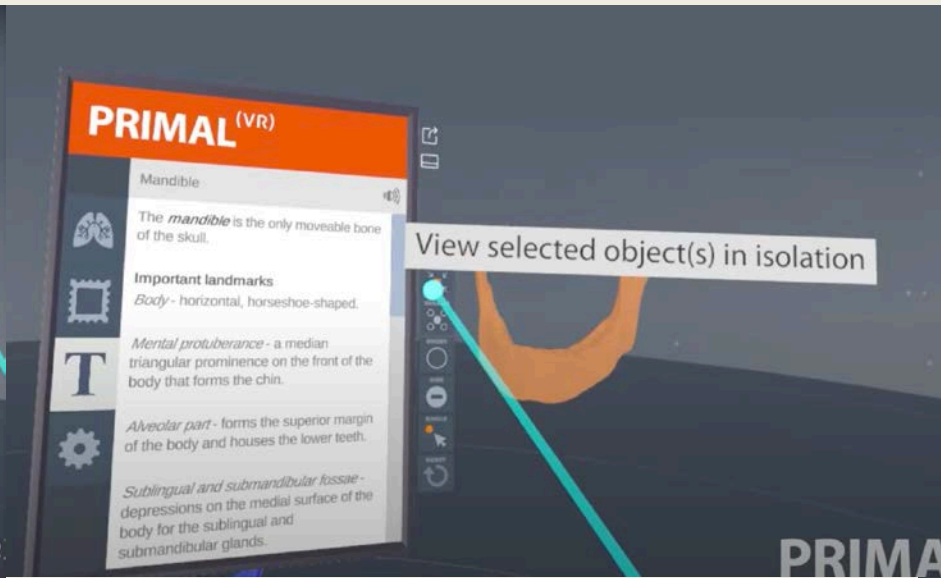
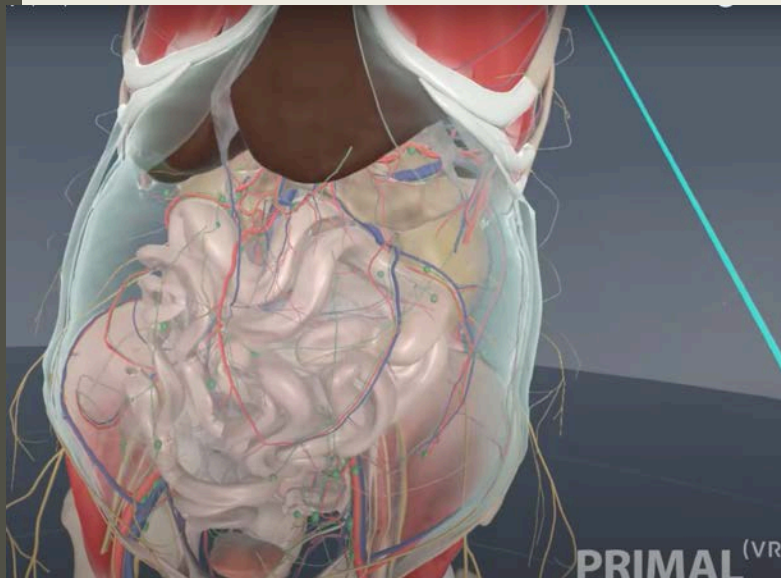
加強立體、透視效果
提高學習效果



3D Real-time VR

基於最受歡迎的 3D Real-time

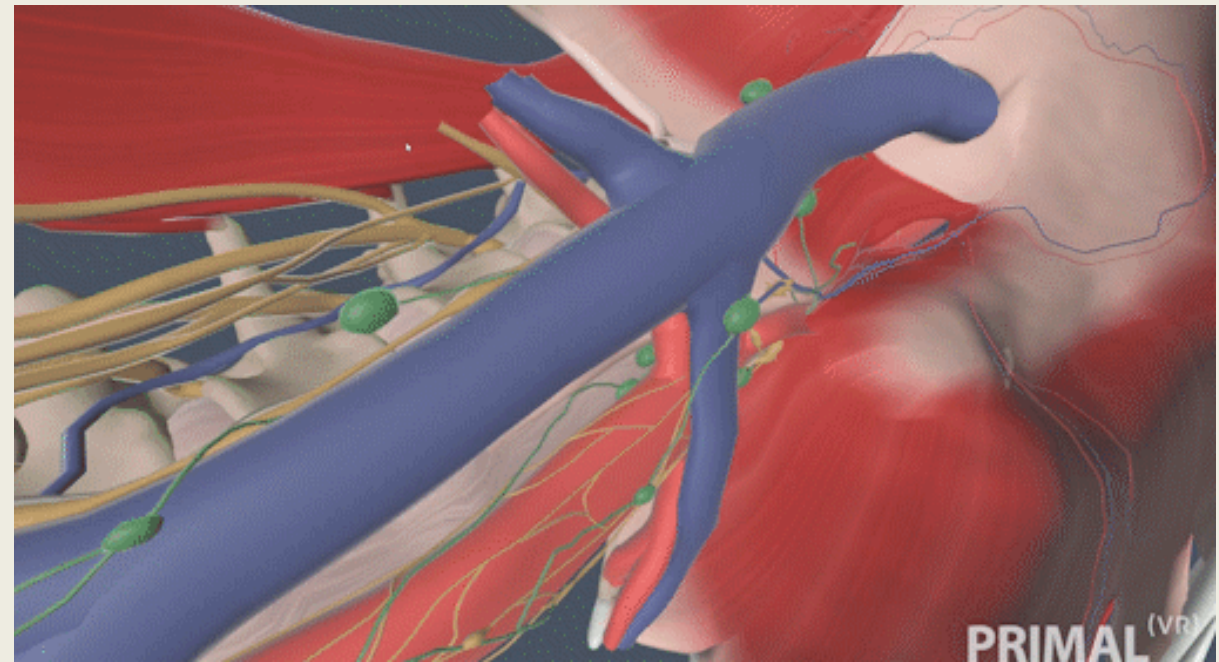
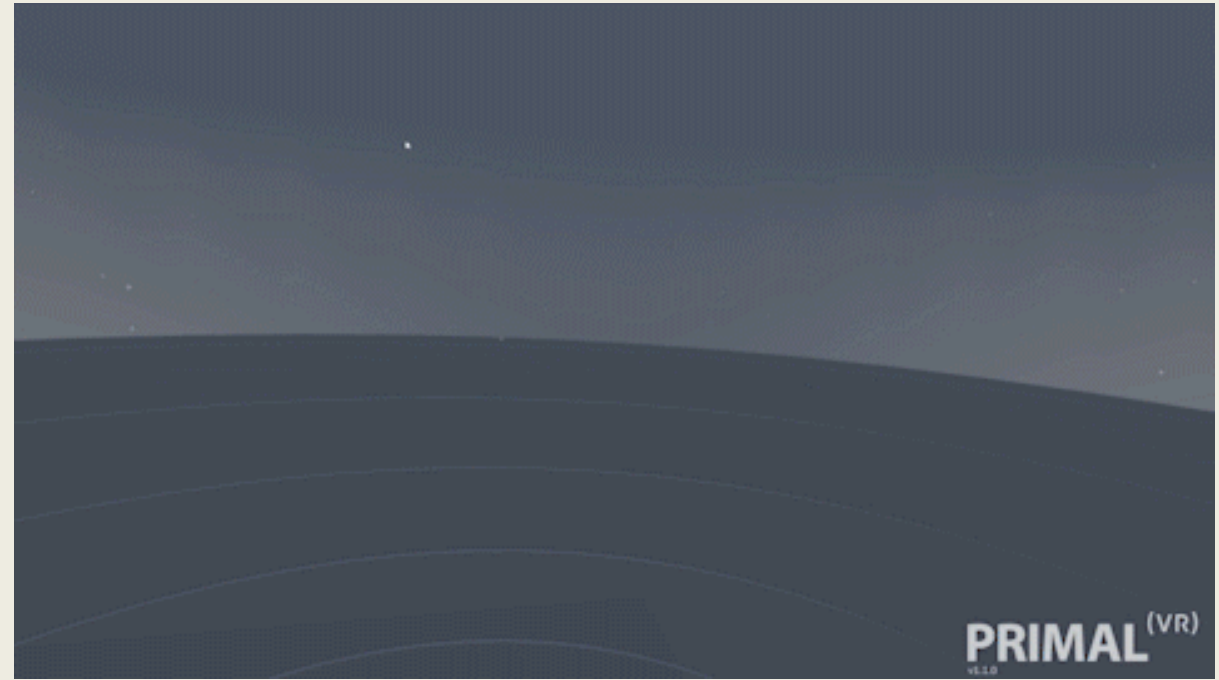
- 使用 Primal VR 以全新的方式與人體解剖結構互動。圍繞人體/器官模型 360 度走動，選擇、縮放和旋轉每個結構，透過 VR 創造出一個獨特的沉浸式學習環境，提高對解剖結構的理解，直接感受各組織器官間的相對位置。



3D Real-time VR

特色：

- 參考完整的解剖圖集，其中包含詳細的人體區域和全身視圖
- 在虛擬環境中360°圍繞人體/器官模型
- 選擇、縮放和旋轉每個結構
- 每個結構都有標籤並附有結構名稱，以幫助理解和了解其功能
- 隨附快速參考源的解剖，非常適合實驗室使用



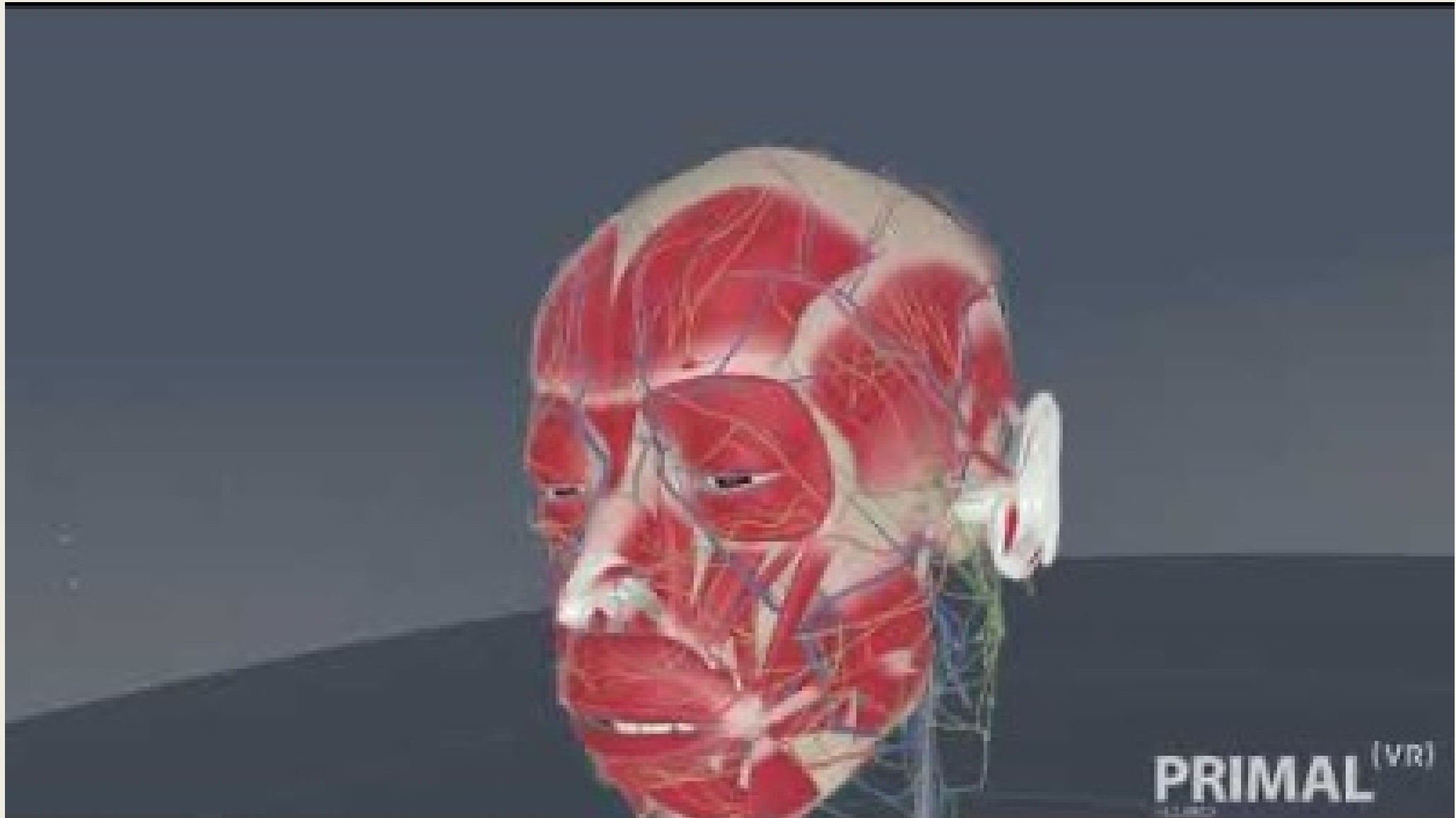
3D Real-time VR

設備需求：

- Primal VR 可用於 Oculus Rift、Rift S 和 HTC Vive 等型號

Processor	Intel i5-4590/AMD Ryzen 5 1500X or greater
Graphics Card	NVIDIA GTX 1060/AMD Radeon RX 480 or greater
Alternative Graphics Card	NVIDIA GTX 970/AMD Radeon R9 290 or greater
Memory	8 GB+ RAM
Operating System	Windows 10
USB Ports	1 x USB 3.0 port
Video Output	Compatible DisplayPort video output

3D Real-time VR



3D Atlas

該模組為局部解剖學的完整參考資訊

- 多種內容呈現方式：3D Anatomy、MRI、Slides、及Movie；
- 各人體構成均配有詳盡的文字說明，以便讀者可以快速瞭解各部位內容及解釋。

PRIMAL'S 3D ATLAS OF HUMAN ANATOMY OF THE HEAD AND NECK

3D Views

- Head and neck
- Head
- Face
- Brain
 - Brain - overview
 - Cerebrum
 - Cerebellum
 - Brainstem
 - Meninges
 - Dural folds and sinuses
 - Ventricles of the brain

Slides

- Anatomy slides
- Clinical slides
- Dissection slides
 - Cervical region of the spinal cord from the front
 - Cranial fossae, with dura mater intact
 - Deep dissection of the left half of the tongue, from the right
 - Face: deep dissection, right infratemporal fossa and TMJ - mandible and adjacent structures removed
 - Face: superficial dissection, the left parotid gland, facial nerve and muscles
 - Left prevertebral region
 - Left side of the neck, from the left and front
 - Mouth and palate in sections: the inside of the

Head MRI

- Axial MR of the head and neck, slice 01
- Axial MR of the head and neck, slice 02
- Axial MR of the head and neck, slice 03
- Axial MR of the head and neck, slice 04
- Axial MR of the head and neck, slice 05
- Axial MR of the head and neck, slice 06
- Axial MR of the head and neck, slice 07
- Axial MR of the head and neck, slice 08
- Axial MR of the head and neck, slice 09

Axial MR of the head and neck, slice 03

Cerebrum

The cerebrum accounts for 85% of the brain and occupies the anterior and middle cerebral fossae. It is directly related to the cranial vault and is divided into two cerebral hemispheres that are joined at the bottom by the corpus callosum. The surface of the cerebrum is covered in a layer of grey matter; this cortex covers a core of white matter. Thick folds called gyri that form shallow grooves called sulci increase the surface area of the cerebrum. Several prominent sulci divide the cerebrum into 5 lobes;

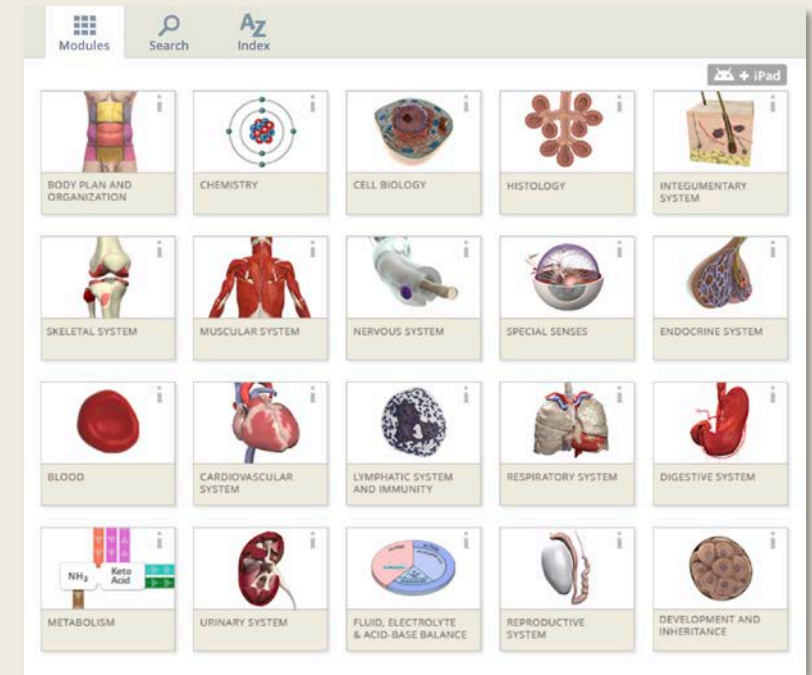
- Frontal
- Parietal
- Temporal
- Occipital
- Insula

The cerebrum controls and integrates motor, sensory, and higher mental functions, such as thought, reason, emotion and memory.

Visible structures

Anatomy and Physiology

- 20 個身體系統模組
- 輔助解剖學與生理學課程內容
- 多媒體學習取向：3D影像、綜合說明文字、影片視頻、敘述式動畫及圖解、發音指南、解剖圖、投影片等
- 250 多個涵蓋病理生理學的臨床主題及案例研究
- 有關病因(病原學)、症狀、診斷與治療的綜合臨床資訊



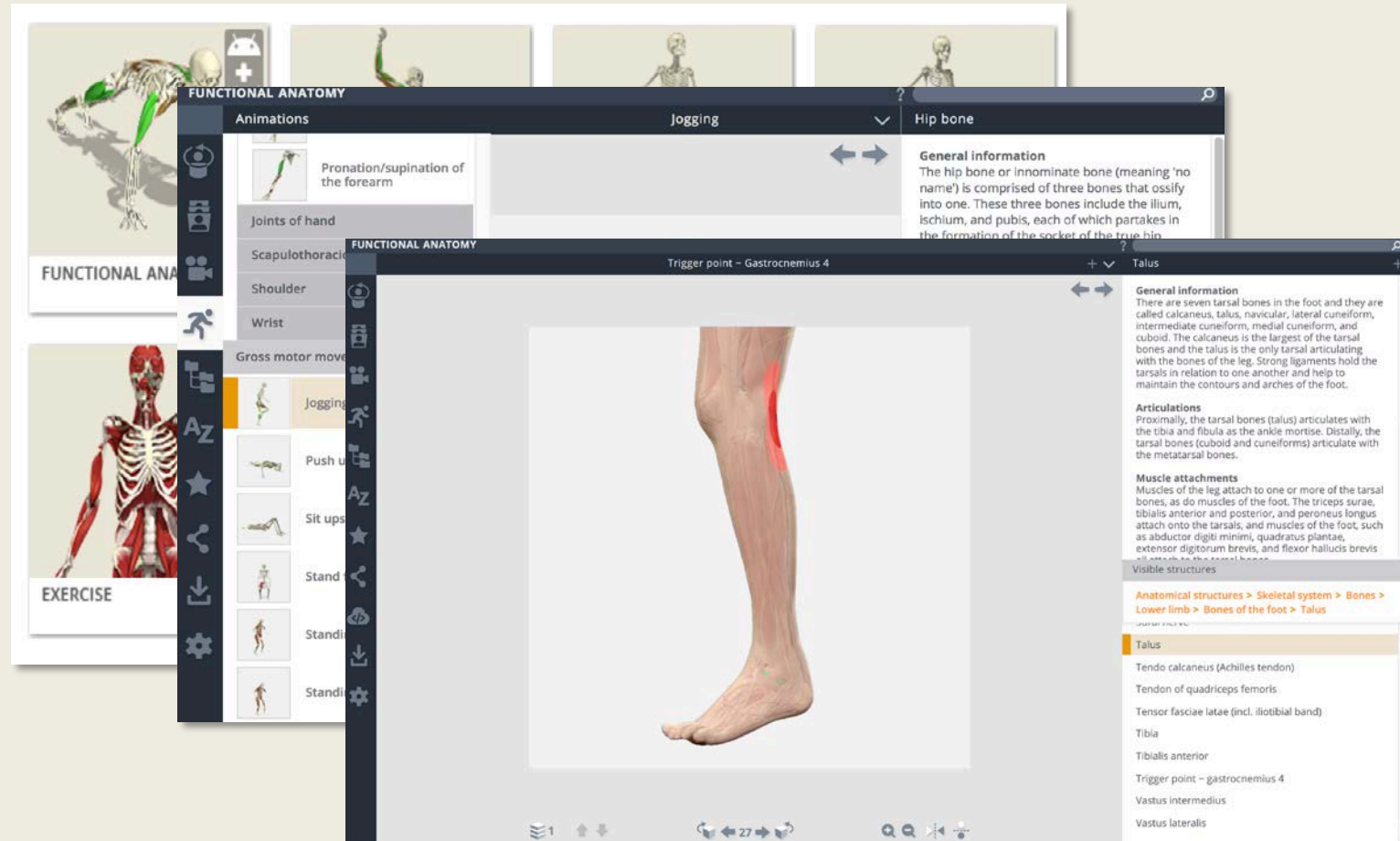
This screenshot shows the 'Clinical, Aging and Case Studies' section for the 'Skeletal System'. The left sidebar contains a navigation menu with icons for 'Clinical', 'Bone metastasis', 'Bunions', 'Osteoarthritis', 'Osteoporosis', 'Rheumatoid arthritis', 'Aging', and 'Case Studies'. The main content area is titled 'Clinical' and features a 'Bone metastasis' section. It includes an overview, causes, and a description of the disease process. A 3D visualization of a human skeleton with highlighted metastatic sites is shown. The text explains that metastatic disease is the spread of cancer or infection from its primary site to another organ, and that bone metastases are the most common malignancy of the skeleton. It also discusses the pathological process initiated when tumor cells enter the bloodstream and migrate to the bone.

This screenshot displays the 'Nervous System' section of the app, specifically focusing on 'Chemical synapse'. The left sidebar lists various topics including 'Introduction', 'Organization', 'Nervous Tissue', 'Action Potentials', 'Synapses', 'Sensory Receptors', 'Brain', 'Meninges and CSF', 'Cranial Nerves', 'Spinal Cord', and 'Spinal Nerves'. The main content area features a detailed 3D diagram of a chemical synapse, showing the presynaptic neuron, the synaptic cleft, and the postsynaptic neuron. The diagram is annotated with various components and processes. To the right of the diagram, there are 'Learning objectives' and 'Visible structures' sections. The learning objectives include distinguishing between types of synapses, labeling parts of a synapse, explaining neurotransmitter release and effects, and listing major groups of neurotransmitters. The visible structures section lists 'Electrical synapses connect cells directly and are found mainly in the CNS and cardiac muscle. Chemical synapses connect cells indirectly and are found mainly in the CNS and cardiac muscle. Chemical synapses connect cells indirectly and are found mainly in the CNS and cardiac muscle. Chemical synapses connect cells indirectly and are found mainly in the CNS and cardiac muscle.'

Functional Anatomy

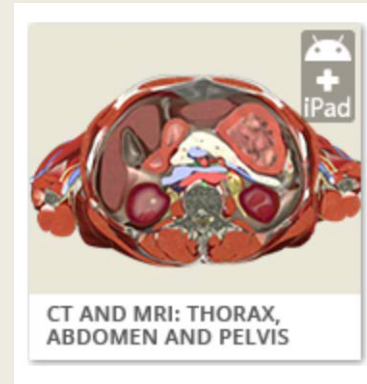
互動式功能解剖提供您觀察肌肉功能，以及與骨骼和韌帶的運動，內有超過70組完整骨架動畫。
這個模組適合用在物理治療、職業治療的研究與發展上。

- 多種內容呈現方式：3D Anatomy, Slides, Movies, 及 Animations
- 涵括多種運動傷害的專業參考資訊
- 影片及動畫形式分析運動過程中的肌肉受力及拉伸情況
- 詳盡的文字闡述，並配有臨床相關性說明



Imaging

提供豐富的人體超音波、CT、及MRI圖片。



- 多維檢視方式：
橫向、縱向、及冠狀切面
- 對應3D解剖影像還原
- 多層級結構檢視
- 詳細的文字說明

PRIMAL'S 3D HUMAN ANATOMY FOR ULTRASOUND: LOWER LIMB

Chronic tear of semitendinosus: axial dynamic US

Movies

- Chronic tear of semitendinosus normal comparison: axial dynamic US
- Chronic tear of semitendinosus: axial dynamic US
- Chronic tear of semitendinosus: longitudinal dynamic US
- Inguinal hernia: axial oblique dynamic US
- Inguinal hernia:

Patellar tendinopathy

knee prosthesis *in situ* or following surgery. On sagittal scanning, there is usually uniform swelling with a hypo-echoic appearance of the whole tendon.

Bibliography

Carr JC, Hanly S, Griffin J, Gibney R. Sonography of the patellar tendon and adjacent structures in pediatric and adult patients. *Am J Roentgenol.* 2001;76:1535-1539.

Pearce KAL, Lee JC, Healy J. Imaging the infrapatellar tendon in the elite athlete. *Clin Radiol.* 2006;61:570-578.

Atrophied muscle belly of semitendinosus

Semimembranosus

Biceps femoris

Adductor muscles

0:01 / 0:12

Clinical Specialties

提供多種臨床專科診療參考資料，為多種臨床專科提供更詳盡資料資訊（牙科，耳鼻喉科，泌尿科...）

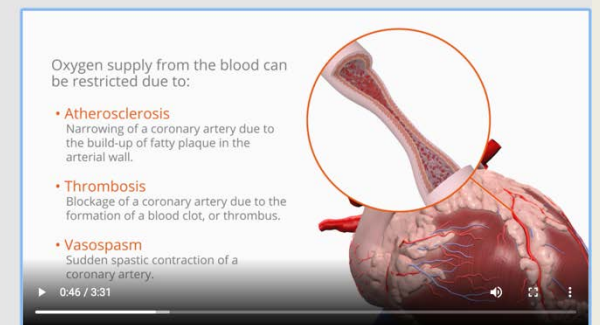
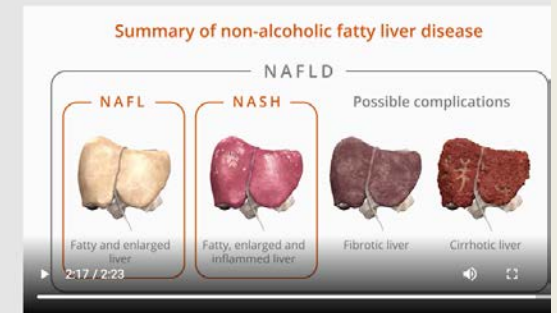
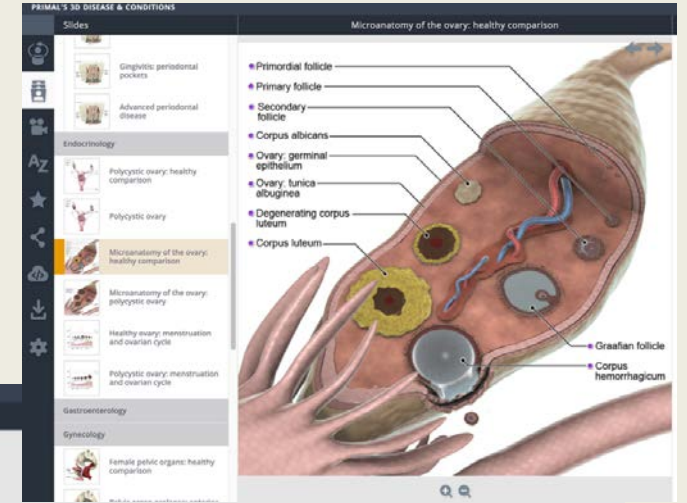
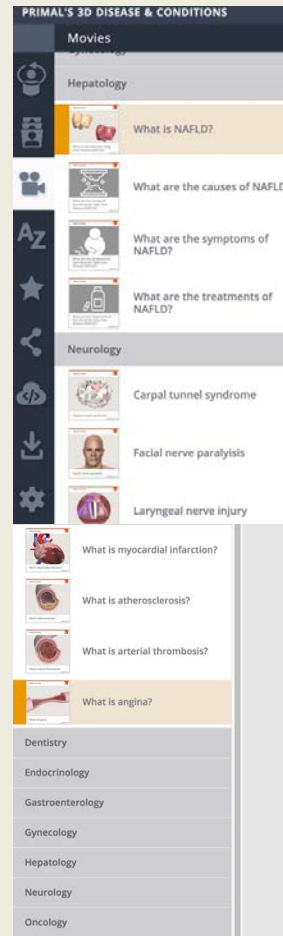
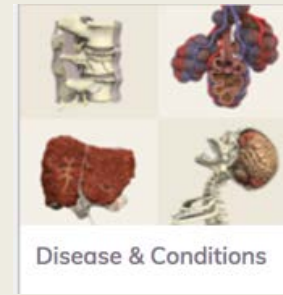
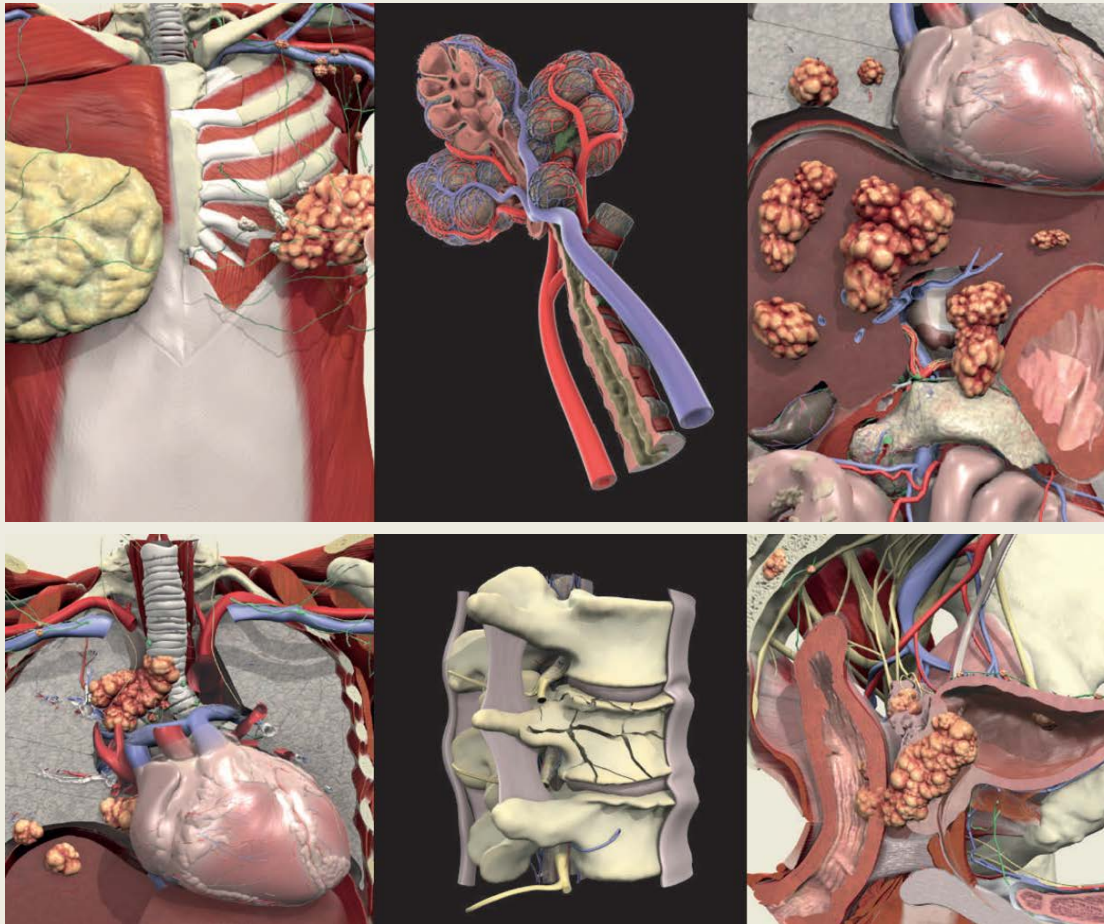
同時還加入臨床診療示範視頻，以及相關手術影片。

The screenshot displays the 'PRIMAL'S 3D HUMAN ANATOMY FOR UROLOGY' interface. The top navigation bar includes 'Movies' and the video title 'AdVance Male Sling TO'. A left sidebar lists various anatomical topics: 'Female bladder and urethra', 'Male bladder and urethra', 'AdVance Male Sling TO' (highlighted), 'Double cuff transcorporeal artificial urinary sphincter with loose cuffs', 'Nerve-sparing cystectomy in a male patient', 'Post-prostatectomy incontinence: bulbourethral sling with invance device', 'Repair of rectovesical fistula using the York Mason approach', 'Robot-assisted prostate-sparing radical cystectomy', and 'Robotic-assisted radical cystectomy with preservation of the neurovascular bundles'. The main area features a video player showing a surgical procedure with a timestamp of 1:30 / 9:29.

The screenshot displays the 'PRIMAL'S 3D ANATOMY FOR OTOLARYNGOLOGY' interface. The top navigation bar includes 'Movies' and the video title 'Stroboscopy'. A left sidebar lists various clinical videos: 'Patient examination' (subdivided into 'Physical examination of the ear' and 'Physical examination of the nose'), 'Stroboscopy' (highlighted), 'Surgical procedures', 'Movement animations', and 'Surface anatomy videos'. The main area features a video player showing a stroboscopy procedure with a timestamp of 1:04 / 3:25.

Disease & Conditions

從各疾病的介紹、成因、癥狀、治療方式以及健康狀態,將正常、異常和臨床解剖學結合在一起。



Therapy

提供治療領域的專業知識。

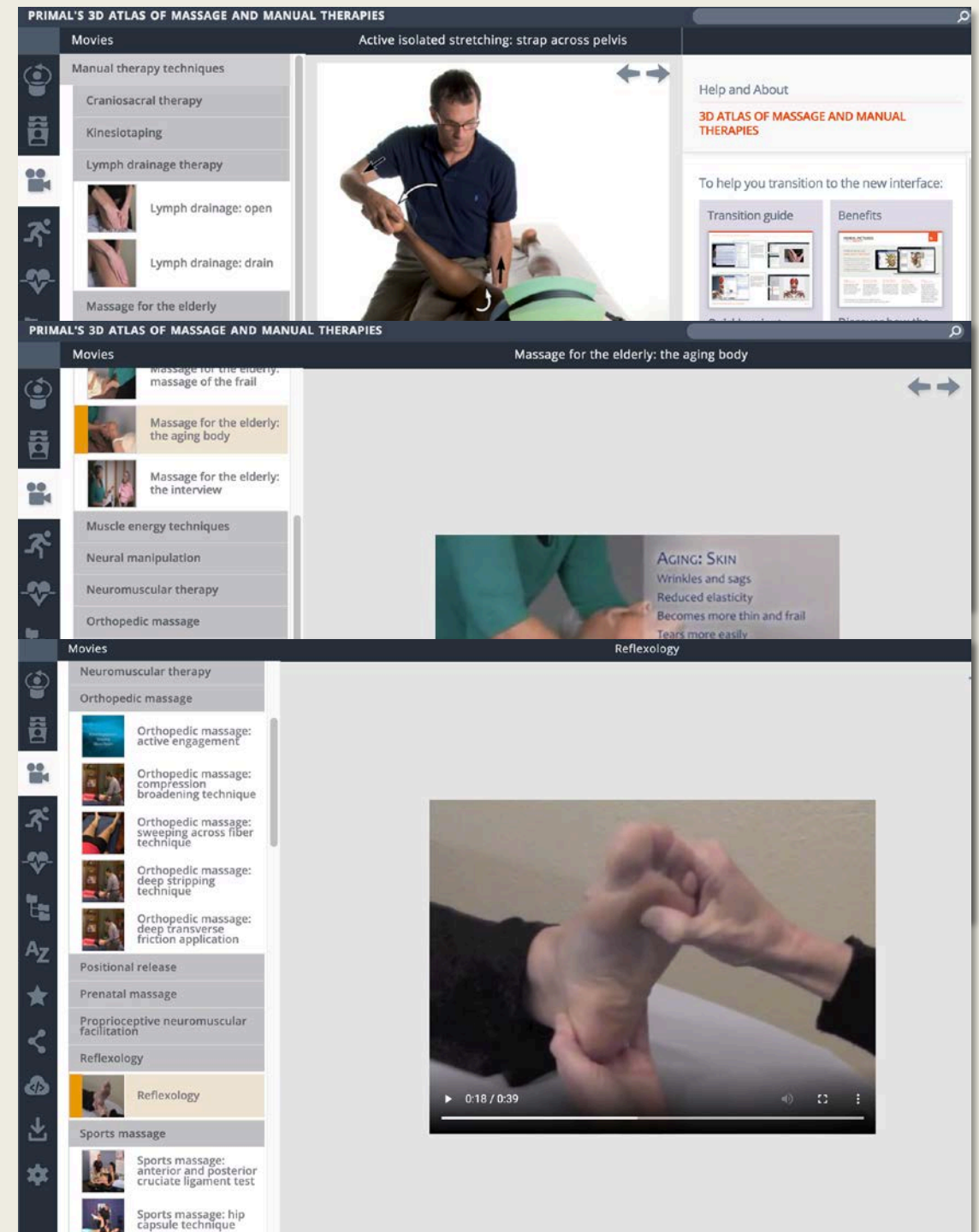
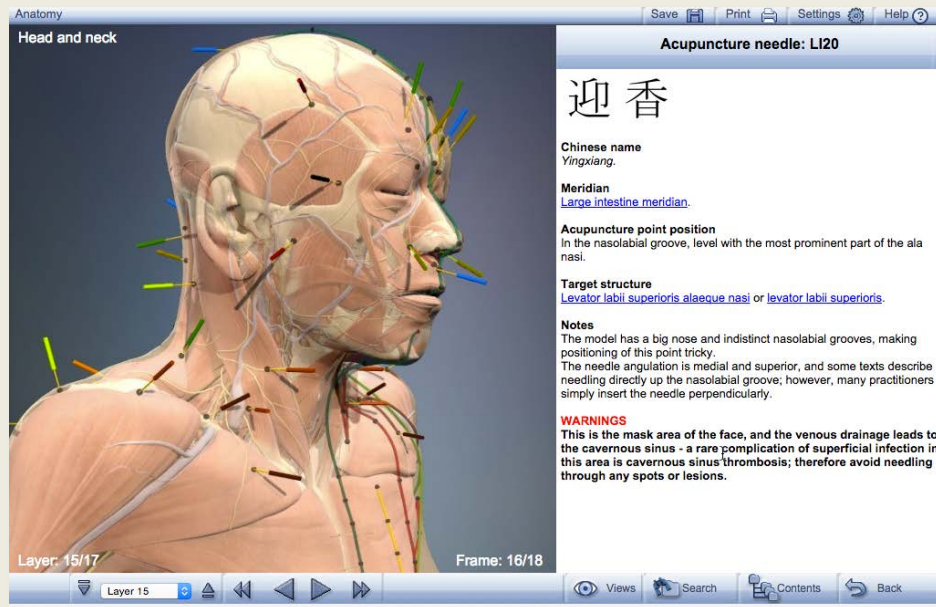
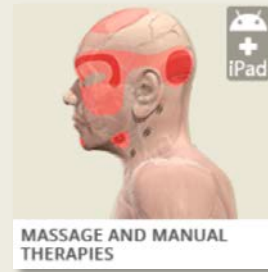
讀者可從以下幾個方面進行參考與瞭解：

Acupuncture (針灸)

Anatomy Trains (肌筋膜疼痛症候群脈絡分佈)

Hand Therapy (手部治療)

Manual Therapies (按摩與伸展照顧)



Quizzes and Activities

提供豐富的自我偵測題目，
學生可以反覆練習。

Click a structure

Oral cavity and infratemporal fossa

Logout Close

Pass your cursor over the image and identify the following structures, clicking on each to highlight them:

- Craniofacial skull
- Mandible

Use the rotation controls to rotate the model to frame 11.

Now pass your cursor over the image and identify the following structures (click on each to highlight them):

- Craniofacial skull
- Mandible

If you are having trouble identifying the correct structure in the image, click on its name in the list below.

Key Structures

Loading structures

ANATOMY CONTENTS QUIZ PODIATRY HOME

Superior Extensor Retinaculum

Anatomy Text

The superior extensor retinaculum (image) is a thickened and strong band of deep fascia (image) overlying the distal part of the anterior (extensor) compartment of the leg. The superior extensor retinaculum is situated just proximal to the ankle joint. It is attached medially (image) to the anterior border of the distal tibial shaft, and laterally to the anterior border of the distal fibular shaft. The superior extensor retinaculum binds down the tendons of the extensor compartment of the leg, and prevents 'bowstringing' of these tendons during muscle contraction.

Jump to Top of Text

Foot and Ankle Model High Quality (slow)

DEEP Layer 14 SUPERFICIAL

Home Anatomy Quiz

ANATOMICAL LANGUAGE

Anatomical language

NERVOUS SYSTEM

Nervous tissue

Brain

Spinal cord

Cranial nerves

Spinal nerves

Autonomic nerves

Special senses

ENDOCRINE SYSTEM

Endocrine system

ORGAN SYSTEM

Respiratory system

Digestive system

Hepatic system

Urinary system

Female reproductive system

Male reproductive system

Integumentary system

SKELTAL SYSTEM

Skeletal tissue

Axial skeleton

Appendicular skeleton

Joints

MUSCULAR SYSTEM

Muscular tissue

Axial muscles

Appendicular muscles

SURFACE ANATOMY

Surface anatomy

CARDIOVASCULAR SYSTEM

Heart

Blood vessels

LYMPHATIC SYSTEM

Lymphatic system

HUMAN ANATOMY: SYSTEMIC EDITION

This title covers the 9 body systems with 3D views to choose in each section, each accompanied by explanatory chapter text. Included are 2500 anatomical structures each with specific text. For a tour of all the content click here:

DEMO

How to use this product:

There are 2 ways to begin to navigate through this product:

- 1) Click on a section to the left to browse through relevant pages by system.
- 2) Click on the search button at the bottom right to search for a particular anatomical structure.

Click on "help icon" at any time for detailed instructions

For further information on navigation click below:

DEMO

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Nervous system

Large intestine

Reproductive system

Peritoneum

Respiratory system

Skeletal system

Special senses

Urinary system

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- 系統
- 類型
- 模組



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Stomach +

By System ▶ Digestive system ▶ Stomach

42 results for 'Stomach'

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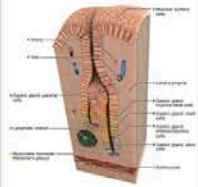
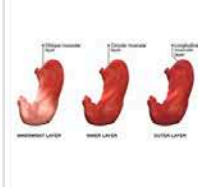
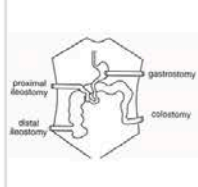



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- Digestive system

Structure 8 results [Show 2 more >](#)

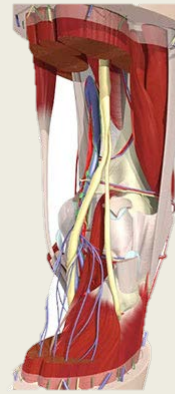
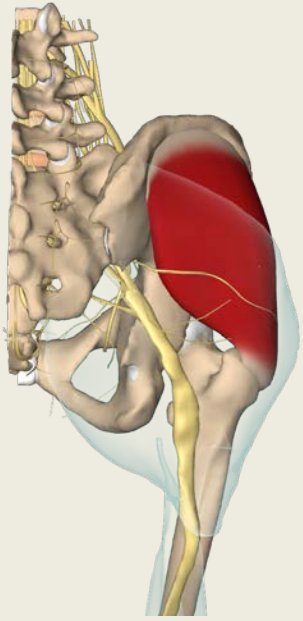
-  Stomach: body
-  Stomach: cardiac region
-  Stomach: fundus
-  Stomach: greater curvature
-  Stomach: lesser curvature
-  Stomach: pyloric antrum

Slide 33 results [Show 27 more >](#)

-  Stomach wall: cross-section
-  Stomach: muscular layers
-  Ileostomies and gastrostomy - diagram of same
-  Laparoscopic hiatus hernia repair -
-  Massive hiatus hernia
-  Nissen fundoplication - sutured wrap

篩選:

- ✓ 類型
- ✓ 模組
- ✓ 部位
- ✓ 系統



THANK YOU !