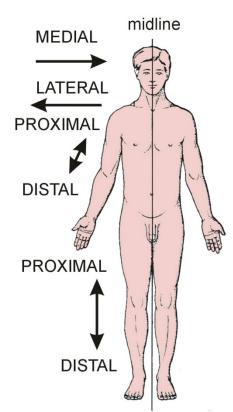
INTRODUCTION TO GROSS ANATOMY AND NERVOUS SYSTEM - PART 1-ANATOMY: TERMINOLOGY OF ANATOMICAL POSITION AND PLANES - 2023

CLINICAL - ANATOMY AND ORIENTATION IN CT AND MRI IMAGES; DESCRIPTION OF LOCATIONS OF LESION

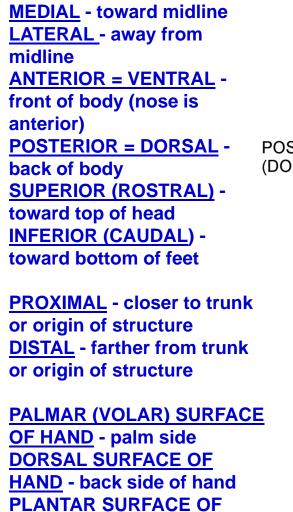
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TERMINOLOGY: ANATOMICAL POSITION

ANTERIOR VIEW OF ANATOMICAL POSITION



ANATOMICAL POSITION - Standing erect, feet together, face forward, arms at side, palms forward.

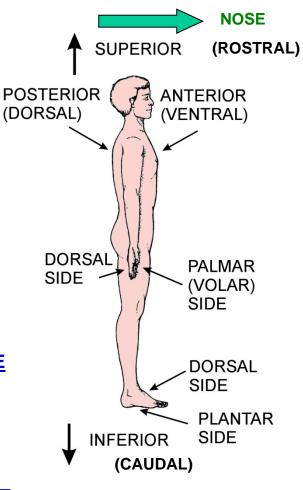


FOOT - sole of foot

- top of foot

DORSAL SURFACE OF FOOT

LATERAL VIEW OF ANATOMICAL POSITION

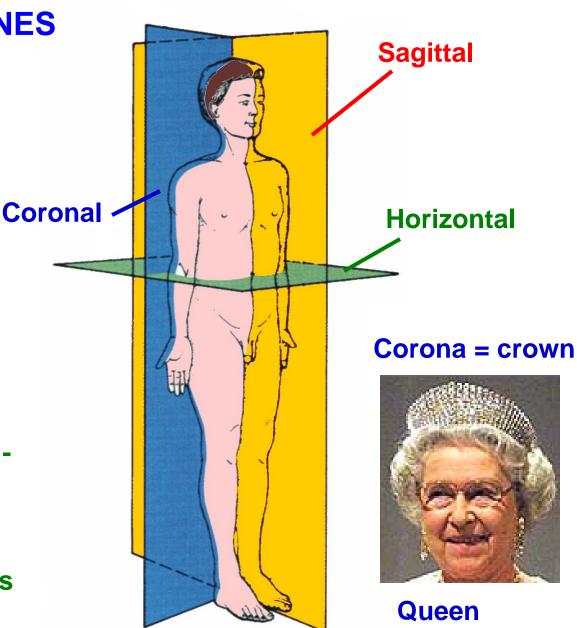


ANATOMICAL PLANES

1) SAGITTAL PLANE divides body in RIGHT and LEFT parts (Median Sagittal Plane-divides body into right and left halves)

2) CORONAL PLANE divides body into FRONT and BACK parts

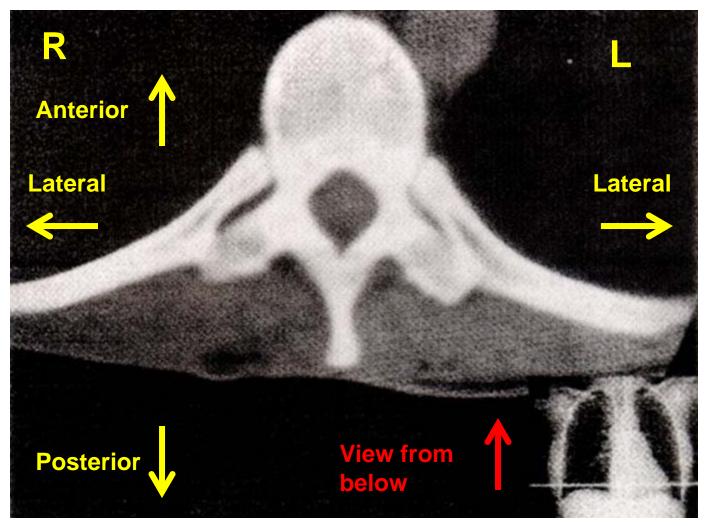
3) HORIZONTAL PLANE Plane = transverse plane cross section- divides body into TOP and BOTTOM parts perpendicular to long axis of body



Elizabeth

(Zillanatomy.com - See Dictionary of Word Roots)

EXERCISE : CONVENTIONAL CT OF THORACIC VERTEBRA

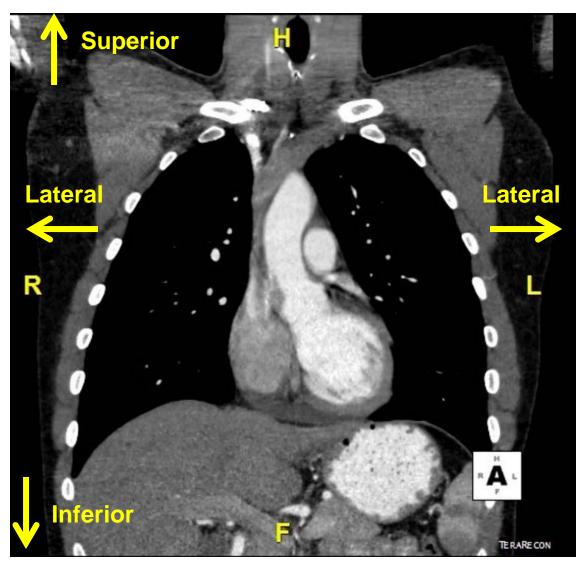


THIS IS A CT IMAGE (SECTION) OF A THORACIC VERTEBRA convention sections viewed from below

bone and metal appear white, air is black; soft tissues appear grey

QUESTION: LOOK AT THE ORIENTING ARROWS. GIVEN THE ORIENTATION, IN WHAT ANATOMICAL PLANE WAS THE SECTION TAKEN? IN WHICH DIRECTION WOULD THE PATIENT'S NOSE BE POINTING (EX. TOWARD BOTTOM OF IMAGE)?

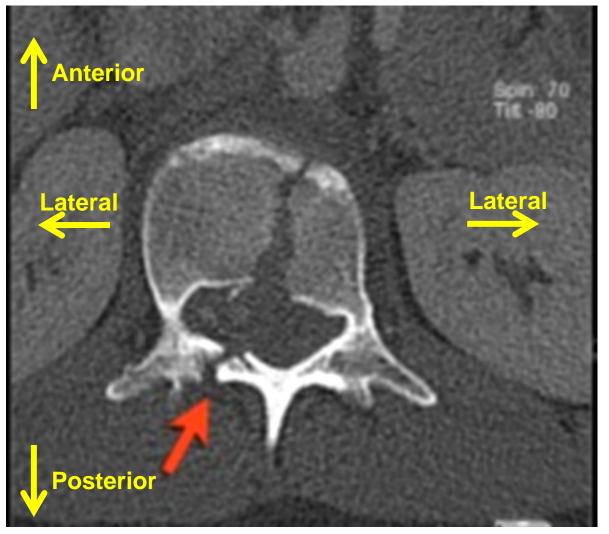
EXERCISE : NON-CONVENTIONAL IMAGE OF THORAX



Note: In radiographic images (CT= Computed Tomography and X rays) bone and metal appear white, air is black; soft tissues appear grey; however, in this image contrast material has been injected to the patients blood stream and swallowed by the patient.

QUESTION: LOOK AT THE ORIENTING ARROWS. GIVEN THE ORIENTATION, IN WHAT ANATOMICAL PLANE OF THE SECTION? EXTRA CREDIT: WHAT ARE THE BLACK AREAS WITH SMALL WHITE DOTS IN THEM?

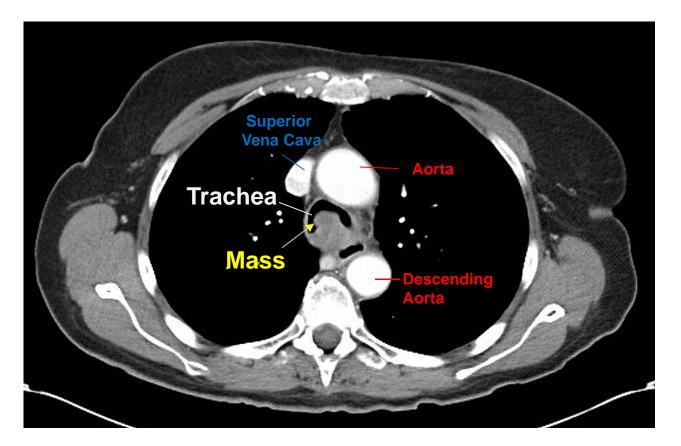
EXERCISE : IMAGE OF FRACTURE SPINE



This is a CT of a vertebra in a patient with a fractured spine. The fracture is indicated by the red arrow but it extends through the entire vertebra.

QUESTIONS: LOOK AT THE ORIENTING ARROWS. GIVEN THE ORIENTATION, WHAT IS ANATOMICAL PLANE OF THE CT IMAGE (NOT THE FRACTURE)?

EXERCISE: COMPLETE THE CLINICAL DESCRIPTION OF LOCATION OF AN ADENOCARCINOMA OF TRACHEA



This is an image of the thorax in the conventional view of CT - Complete the following statement: The mass is located in the _____ wall of the trachea, _____ and _____ to the Descending aorta. (Choices for ___: anterior, posterior, medial, or lateral)