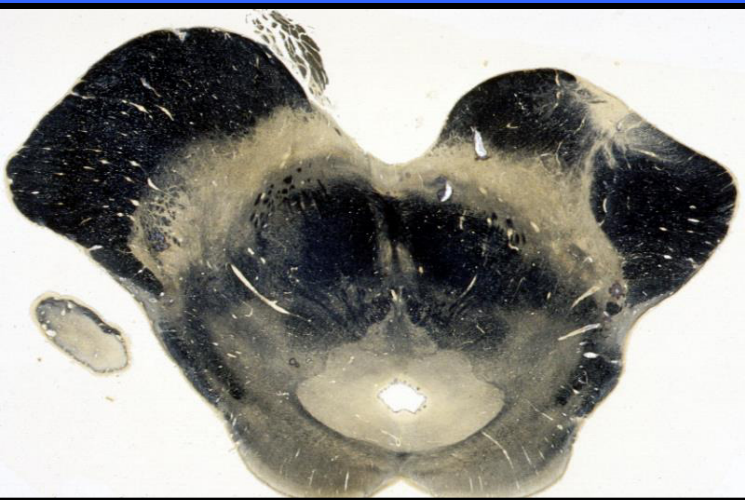
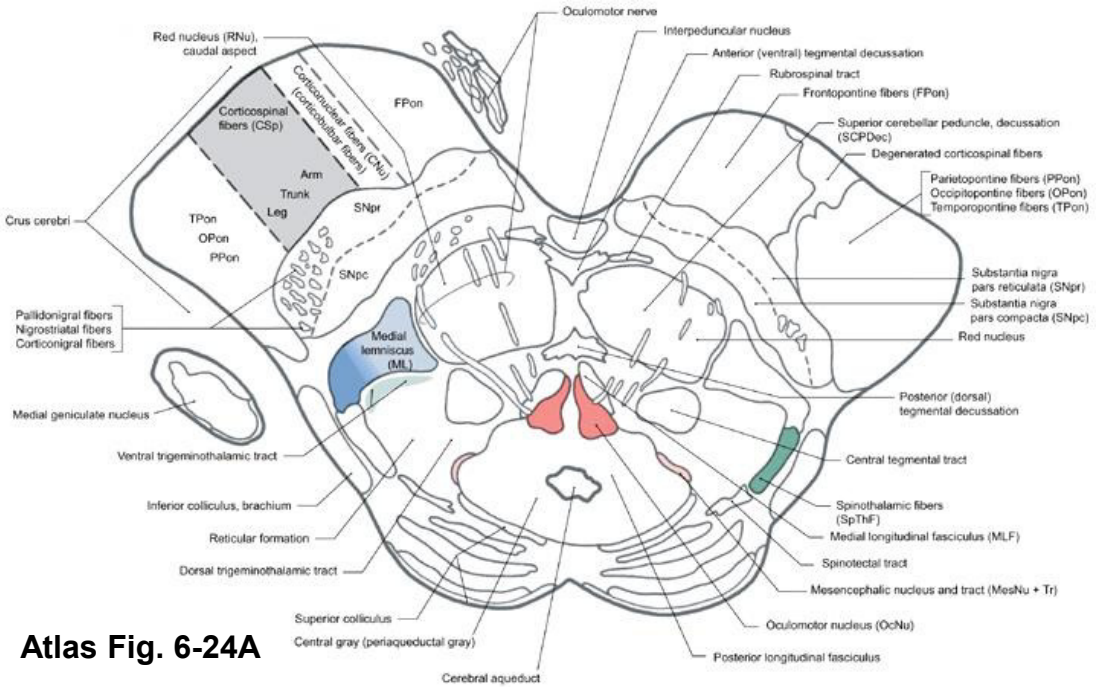
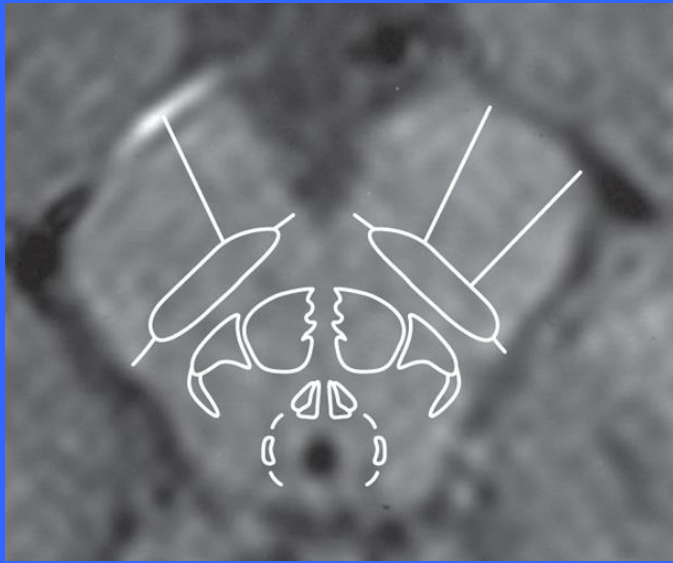
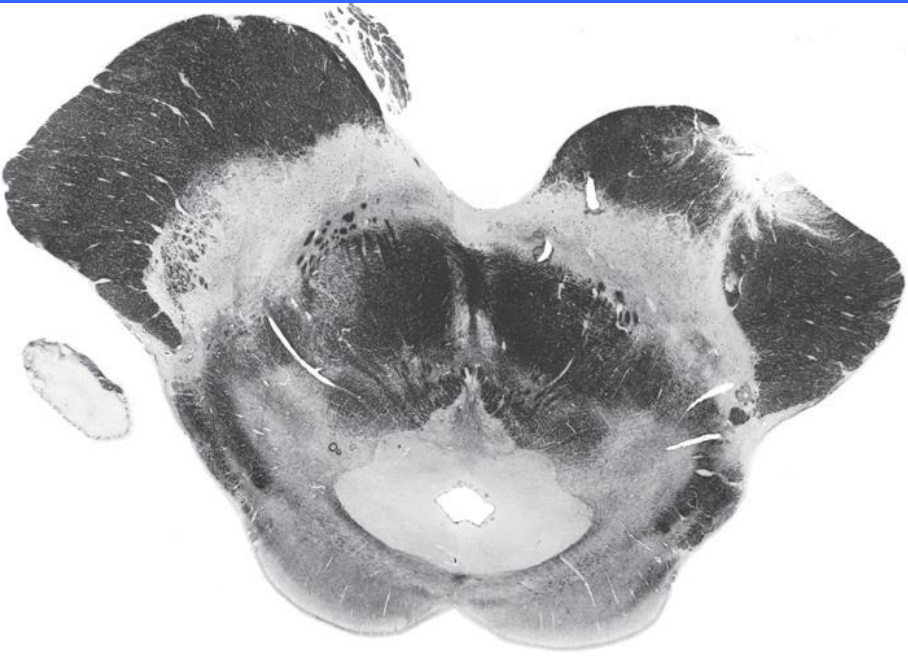


Atlas Fig. 6-24

The Reality of the Clinical Environment

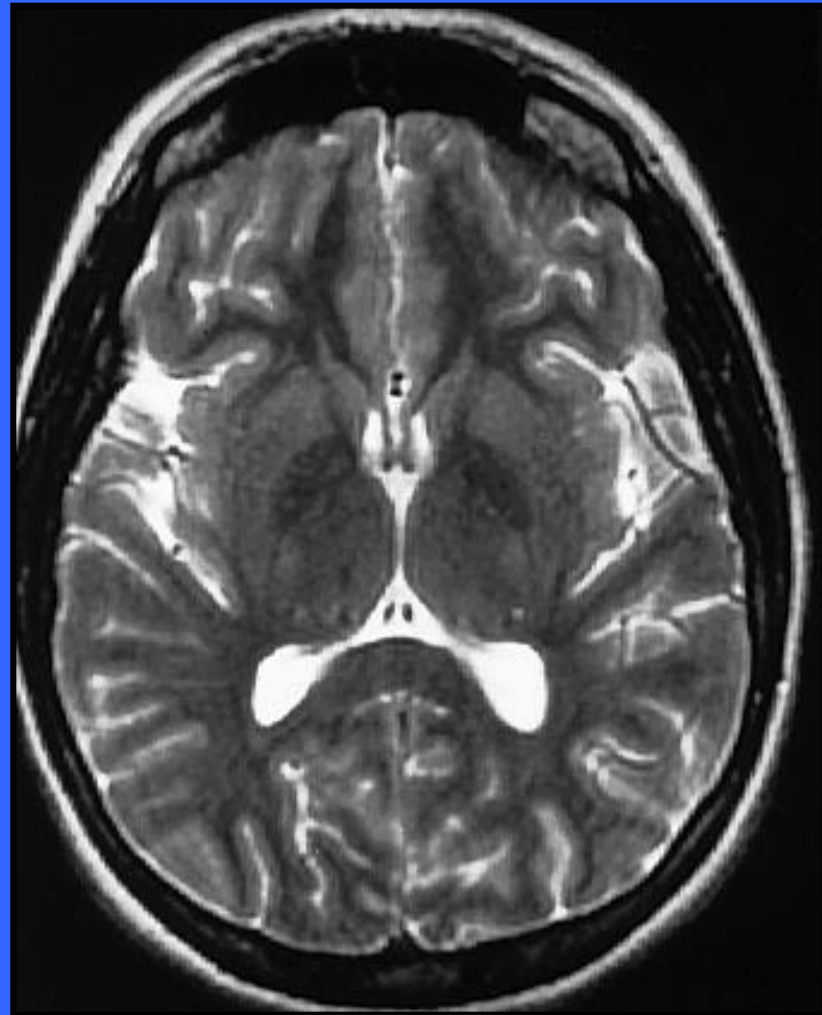
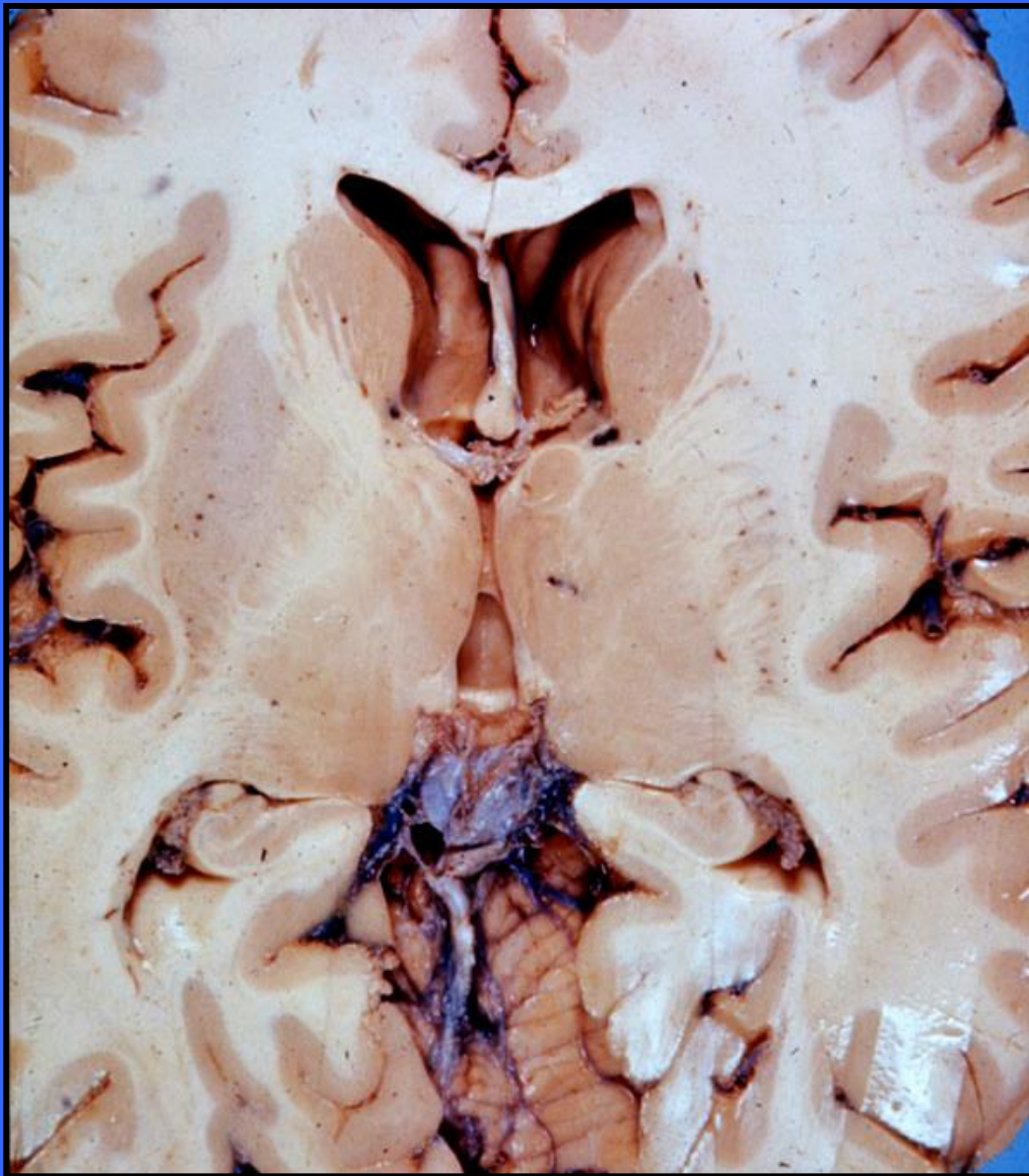




One Cardinal Plane to Learn AND Understand - Midsagittal



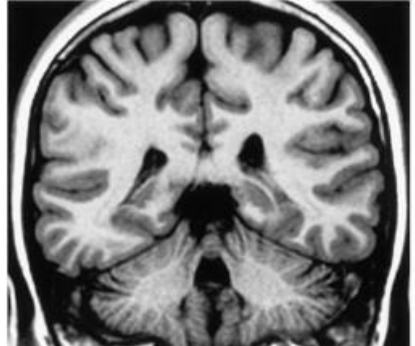
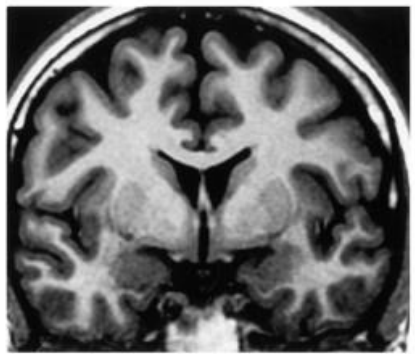
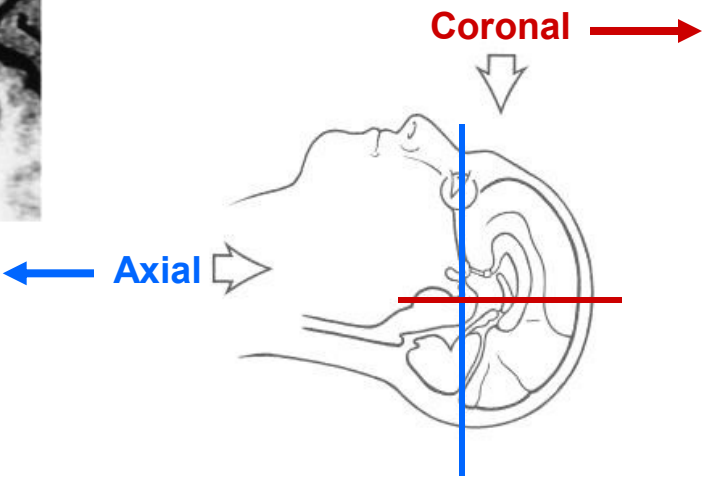
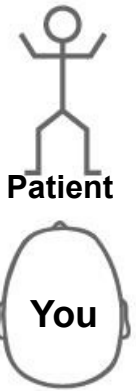
A Second Cardinal Plane to Learn AND Understand—Mid-Axial



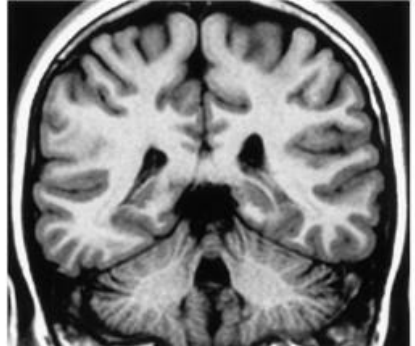
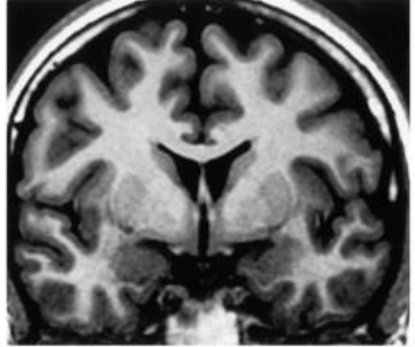
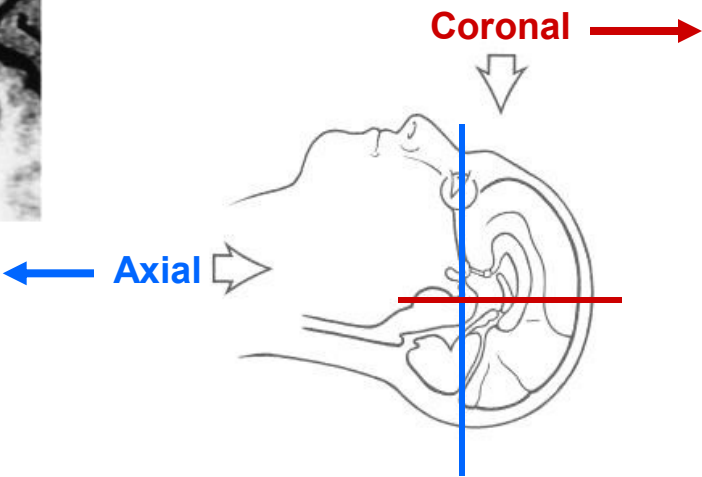
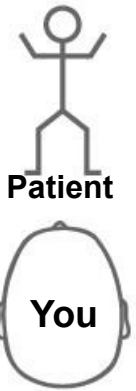
CT & MRI

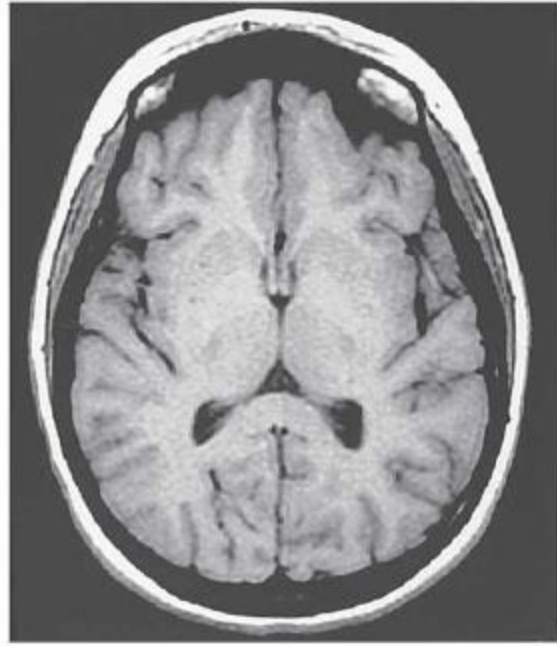
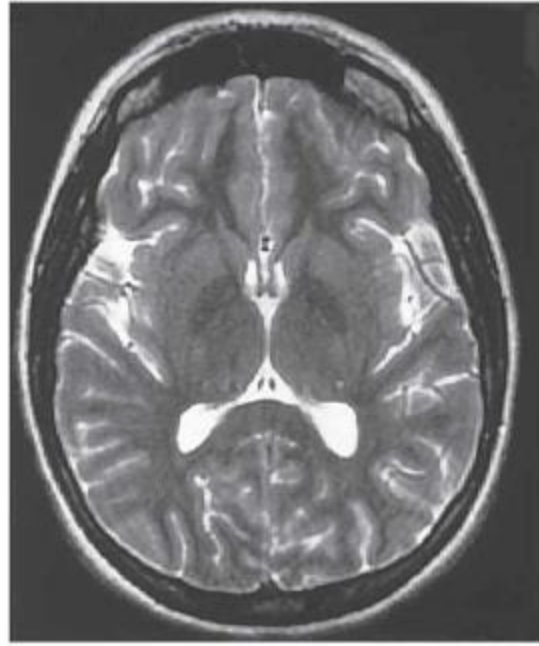
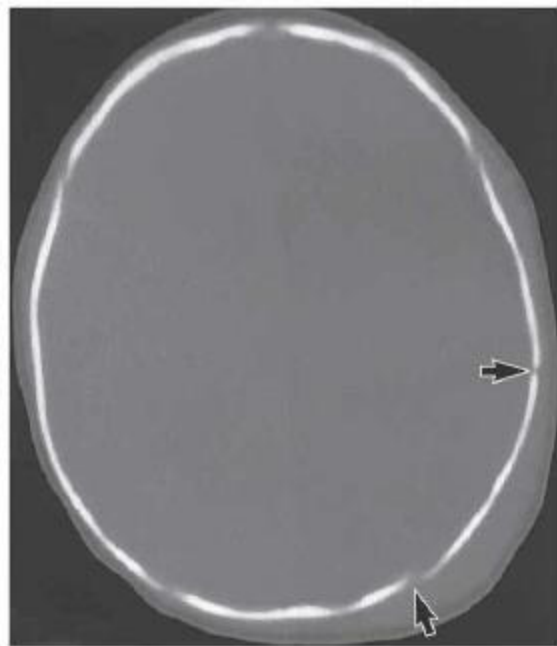


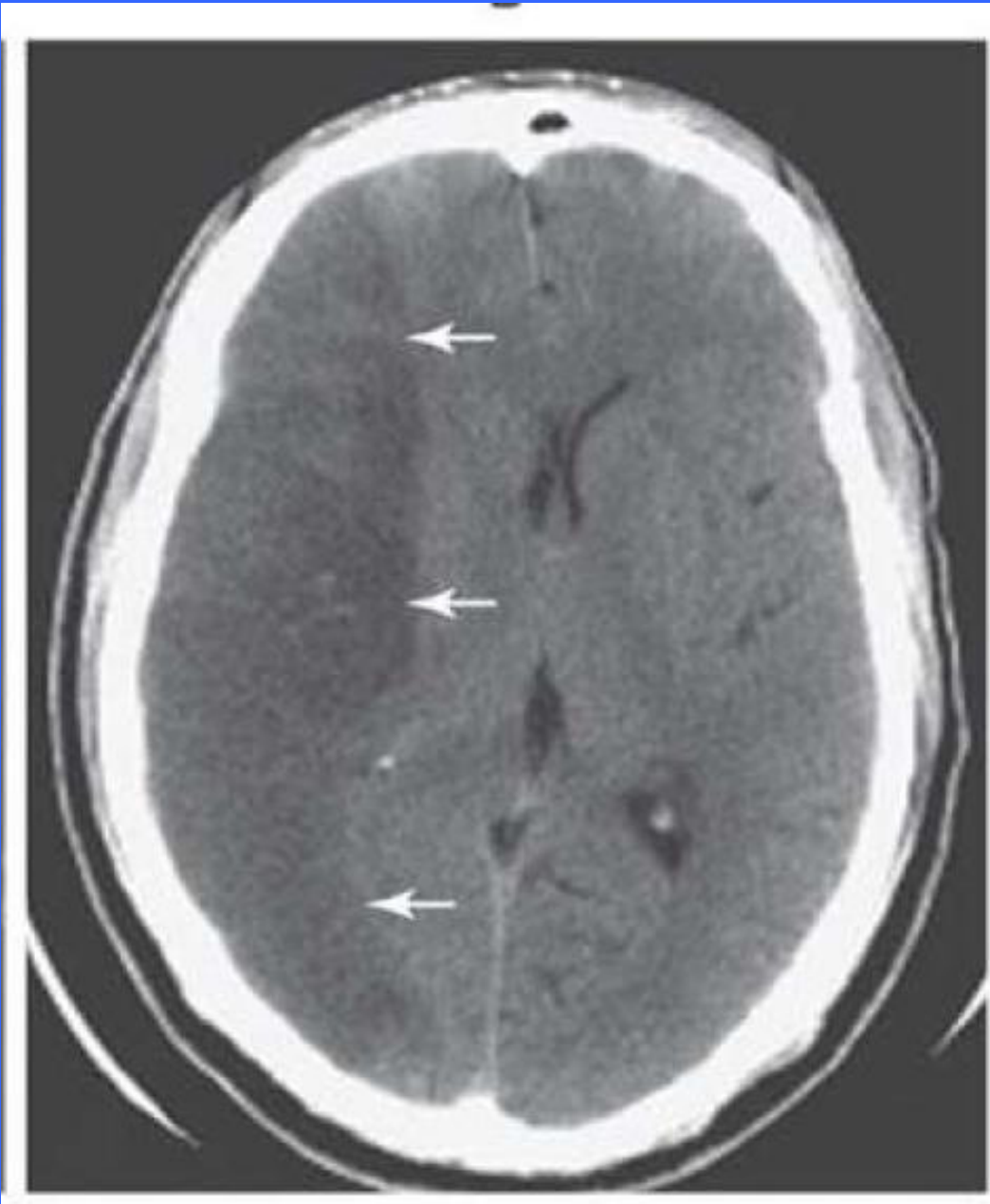
Remember, Your Right is the Patient's Left



Remember, Your Right is the Patient's Left



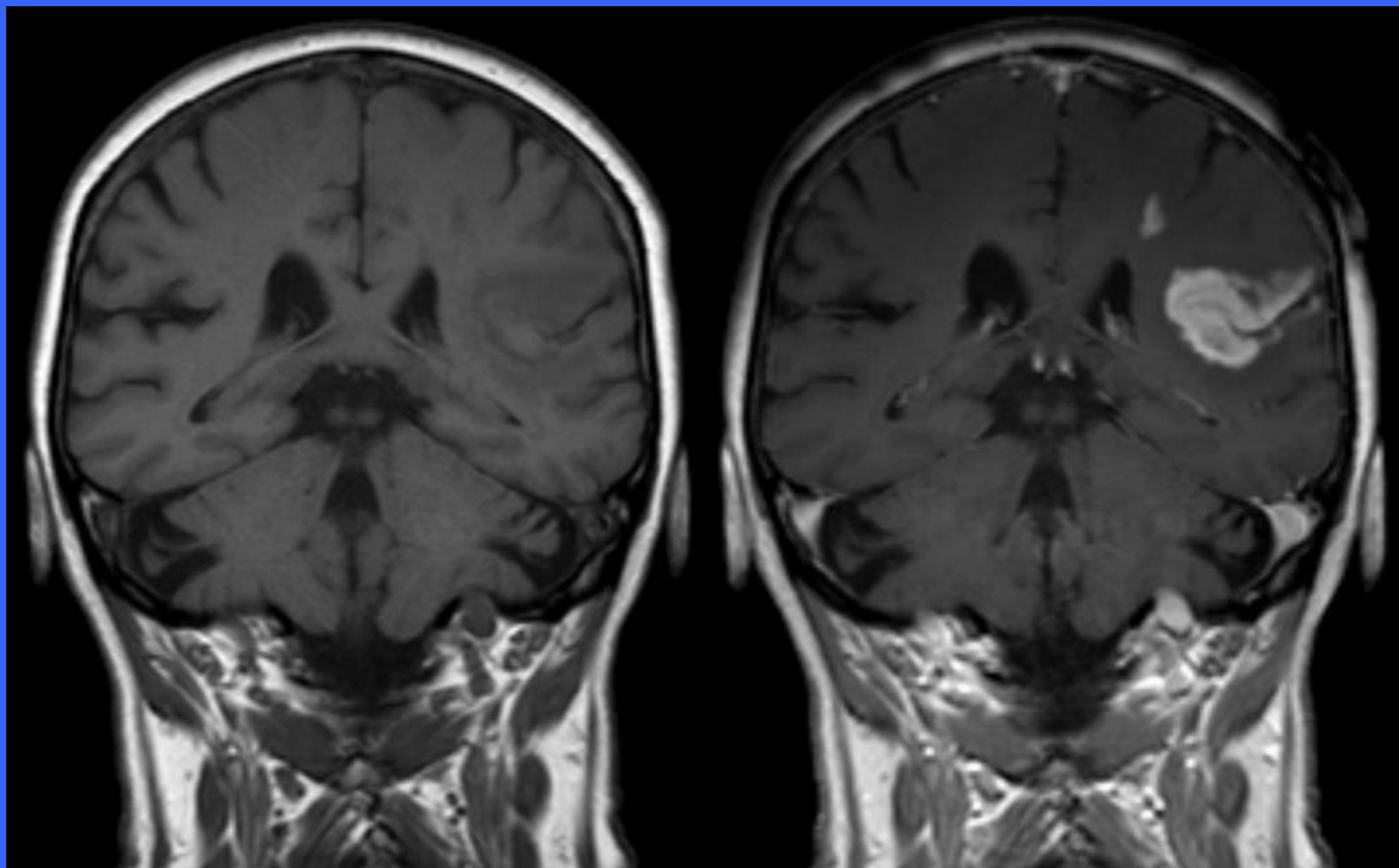


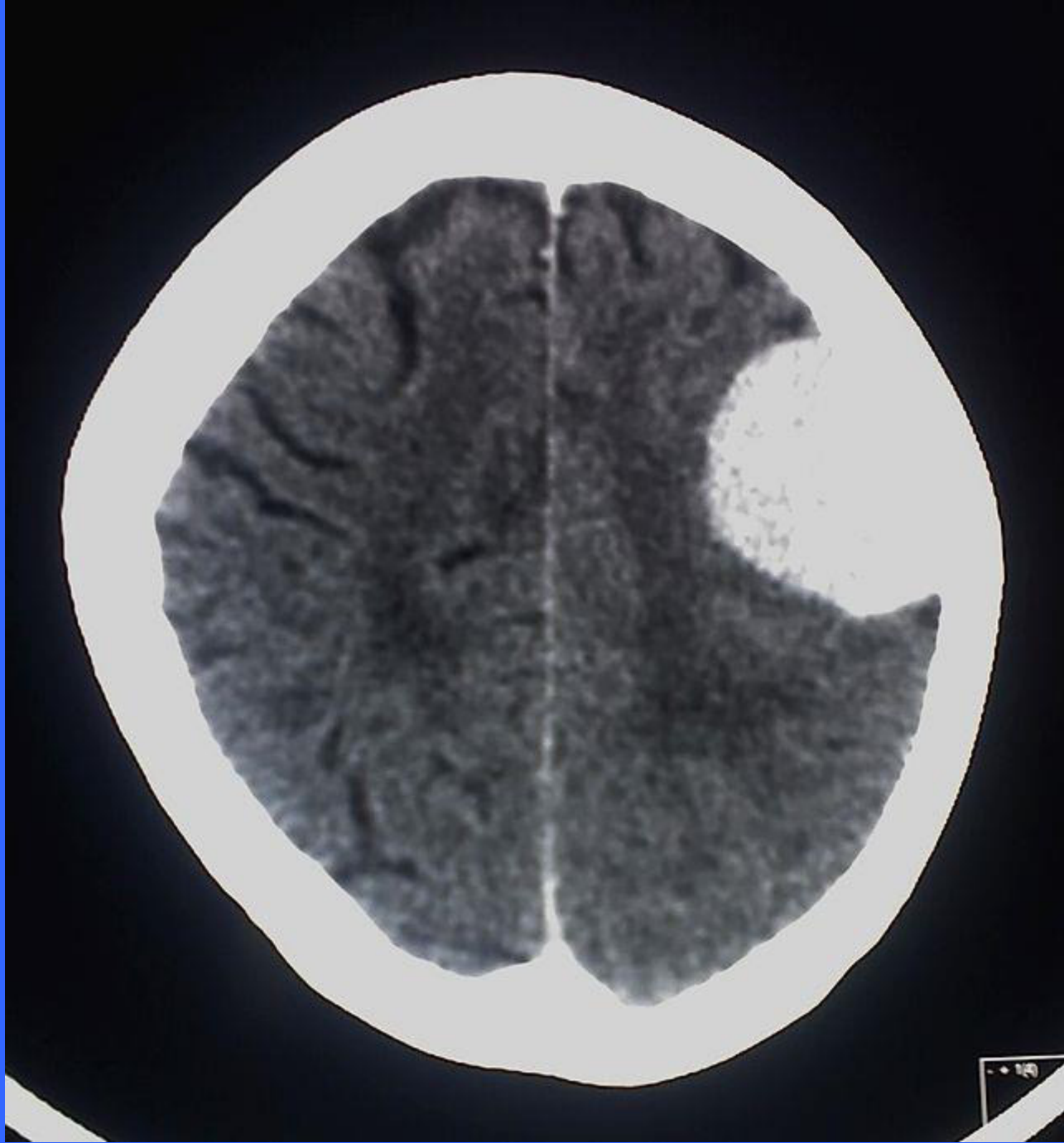


infarction



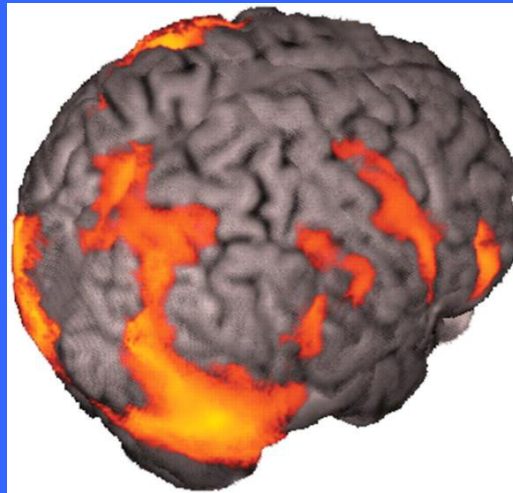
tumor



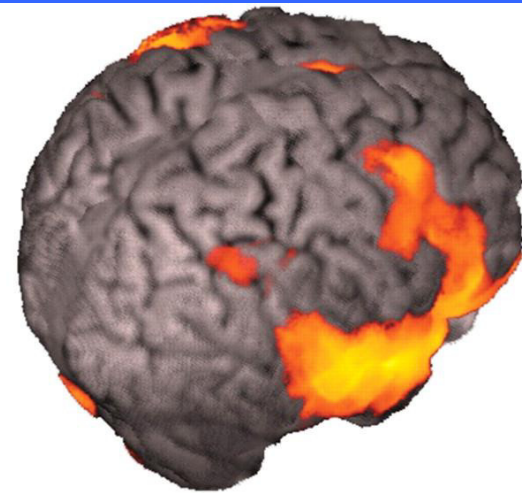




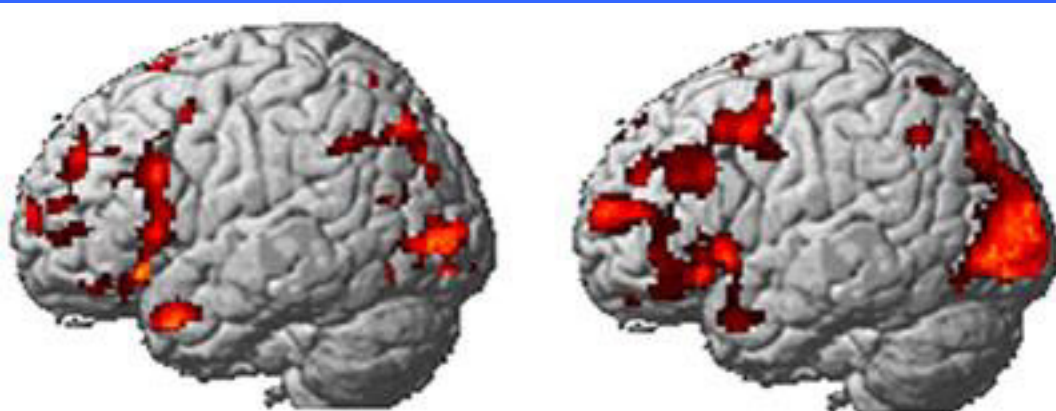
Functional MRI



Pictures



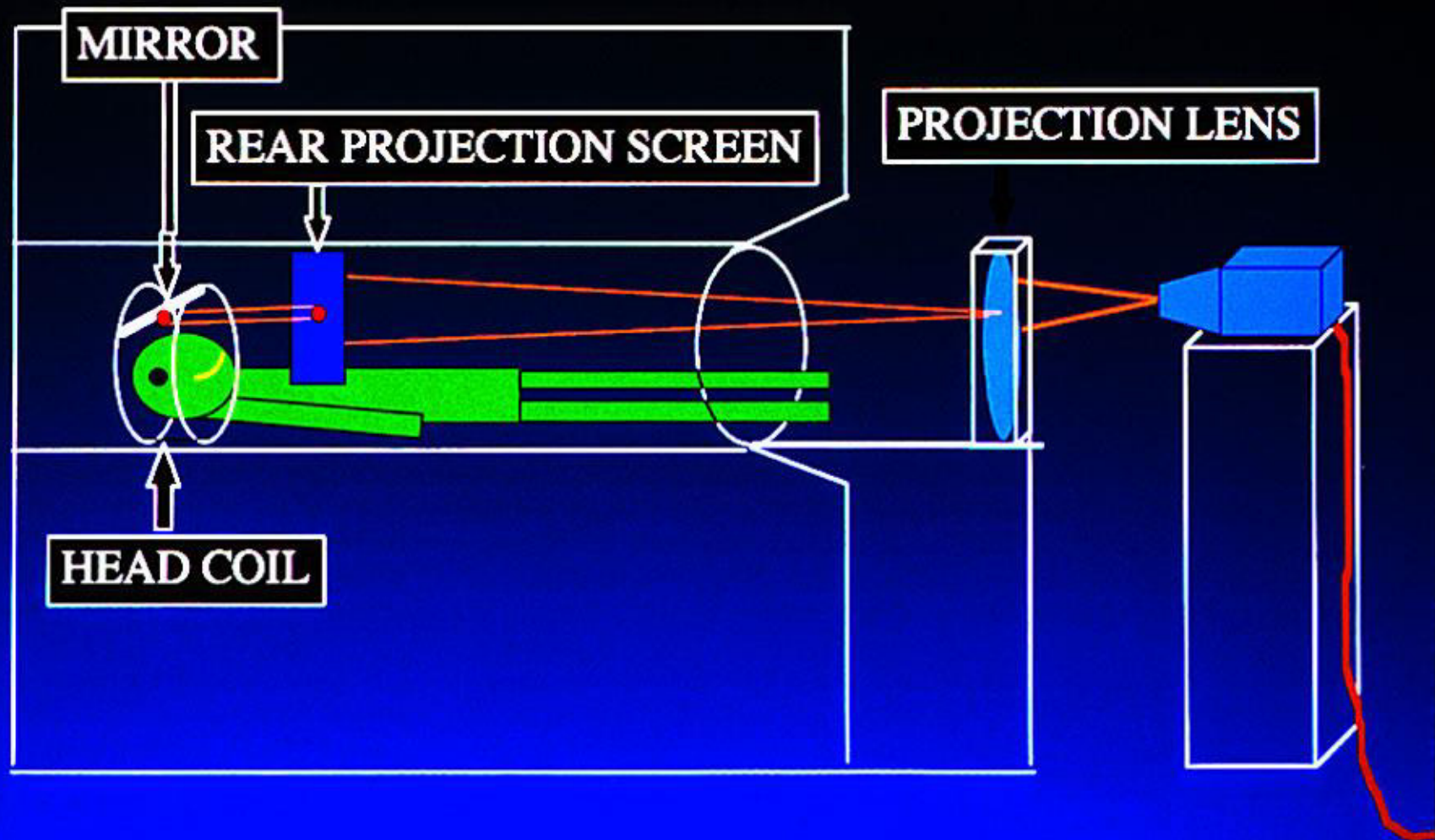
Voices



HAPPY

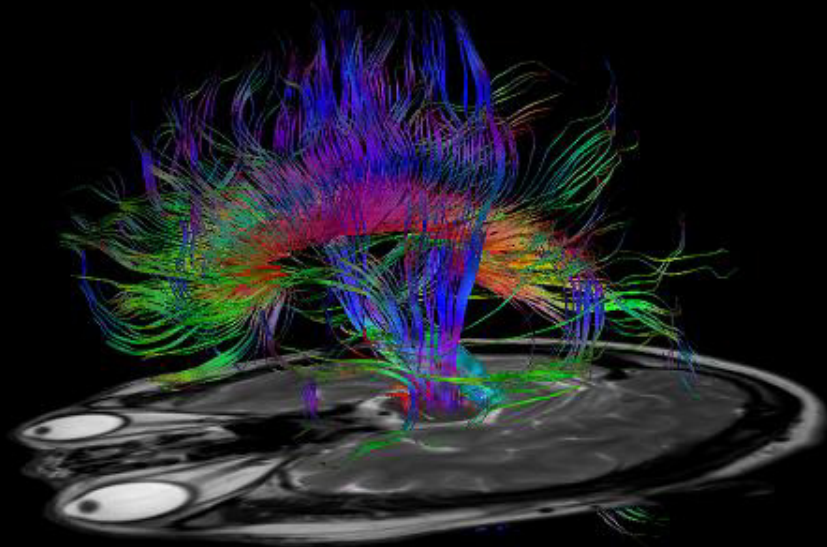
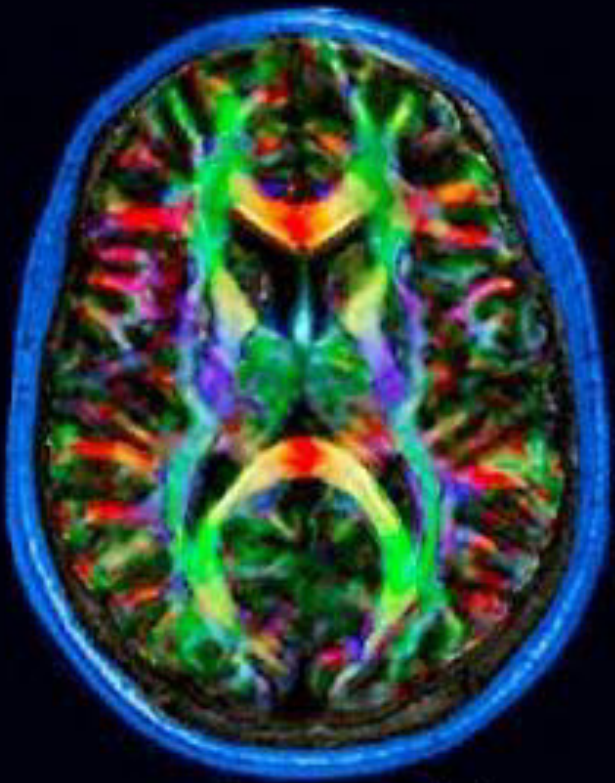
SAD

Methods: fMRI Testing Environment



Diffusion MRI

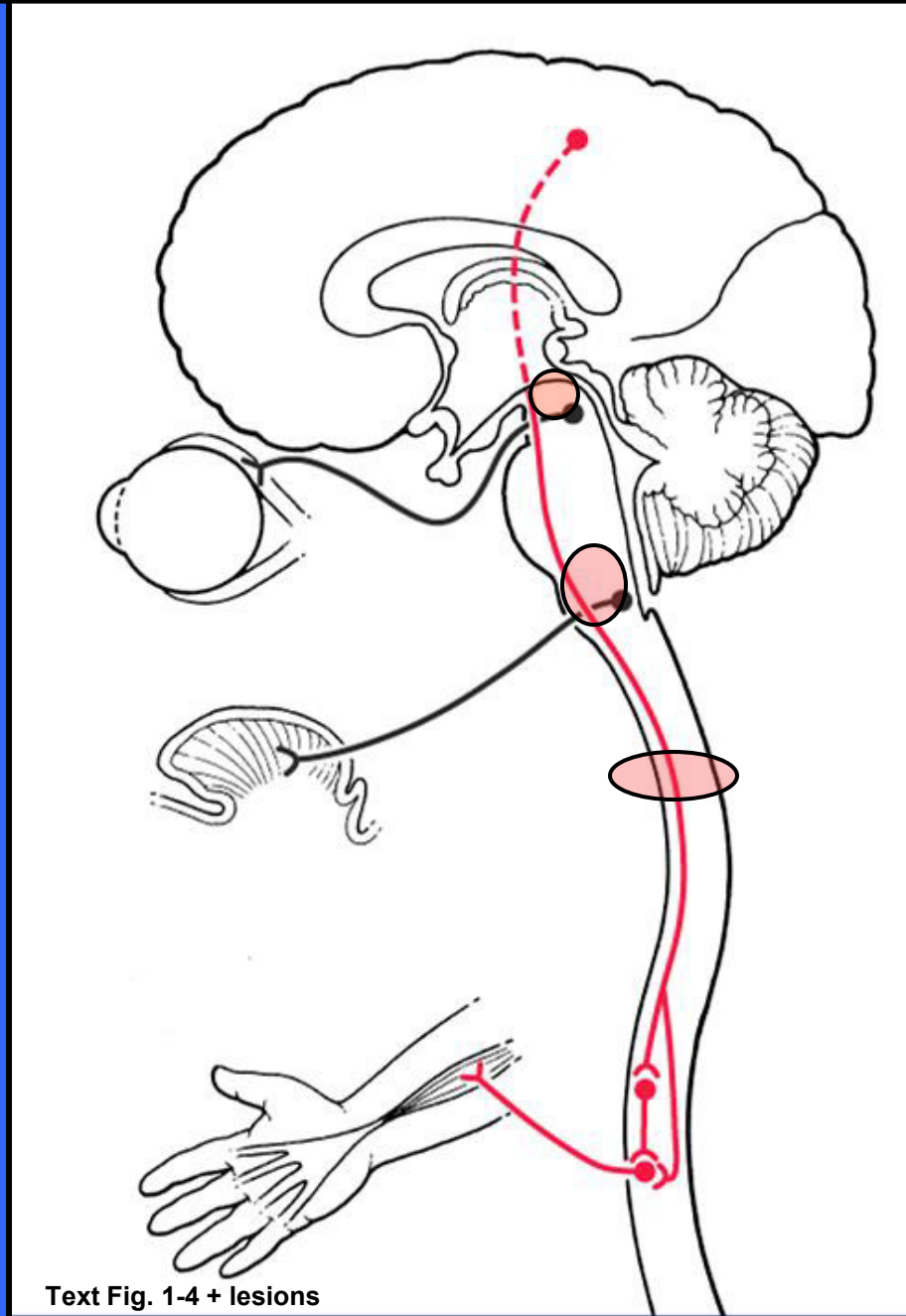
Sc 3, 3
DwiSE/Anatomic
Opacity: 100
Threshold B0: 300.2



SCIENCEPHOTOLIBRARY

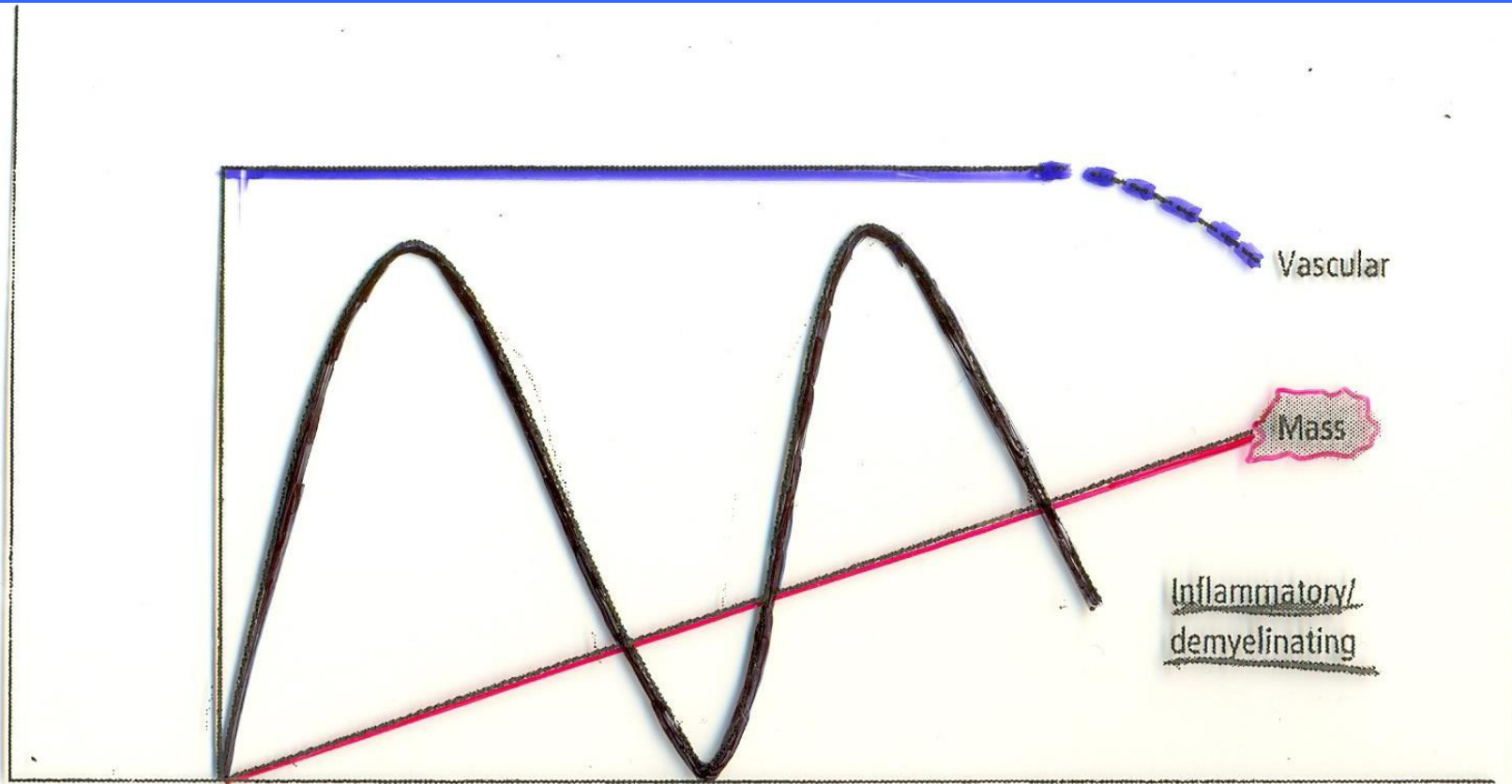


Lesions: localization and types in nervous system



Text Fig. 1-4 + lesions

Symptoms

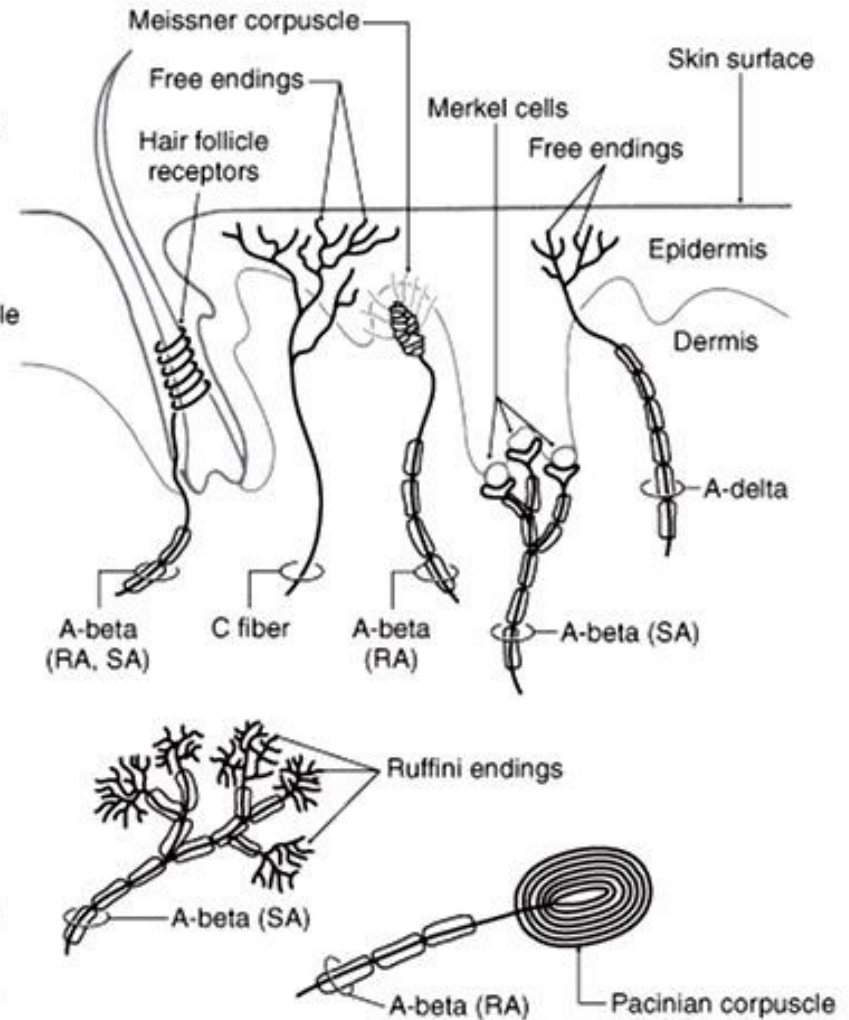
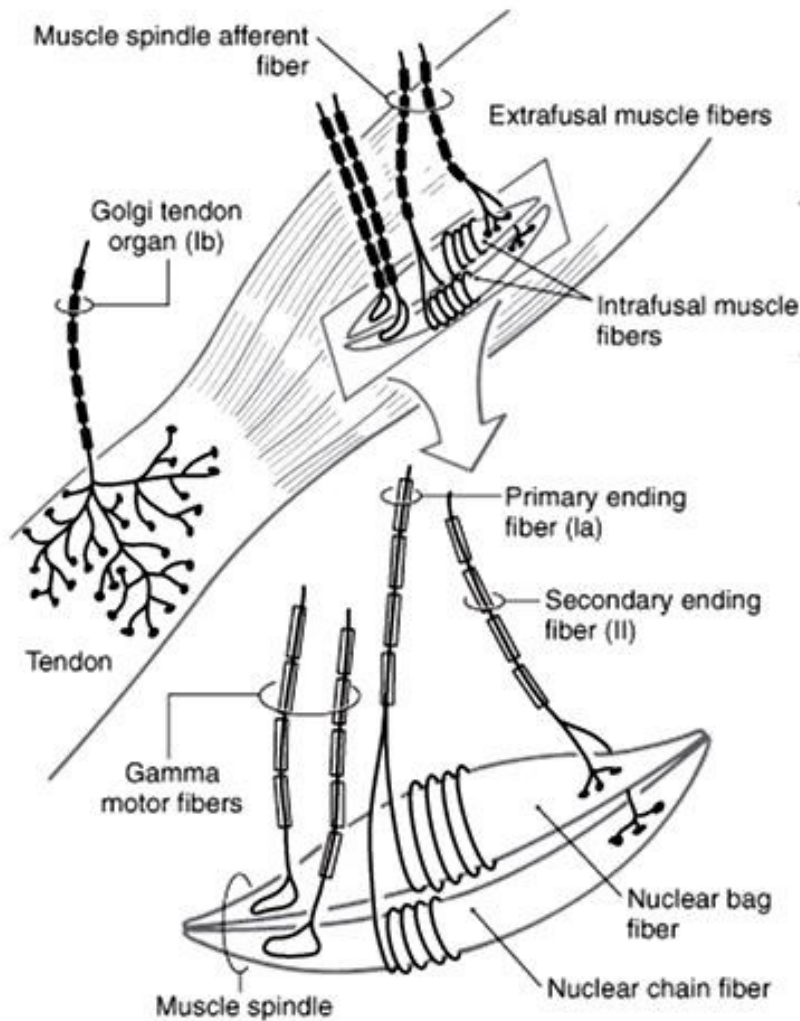


Time

Types of sensation

- types of sensations
 - General sensation
 - Somatic
 - visceral
 - Special senses
 - Smell, taste, vision etc

Sensations receptors



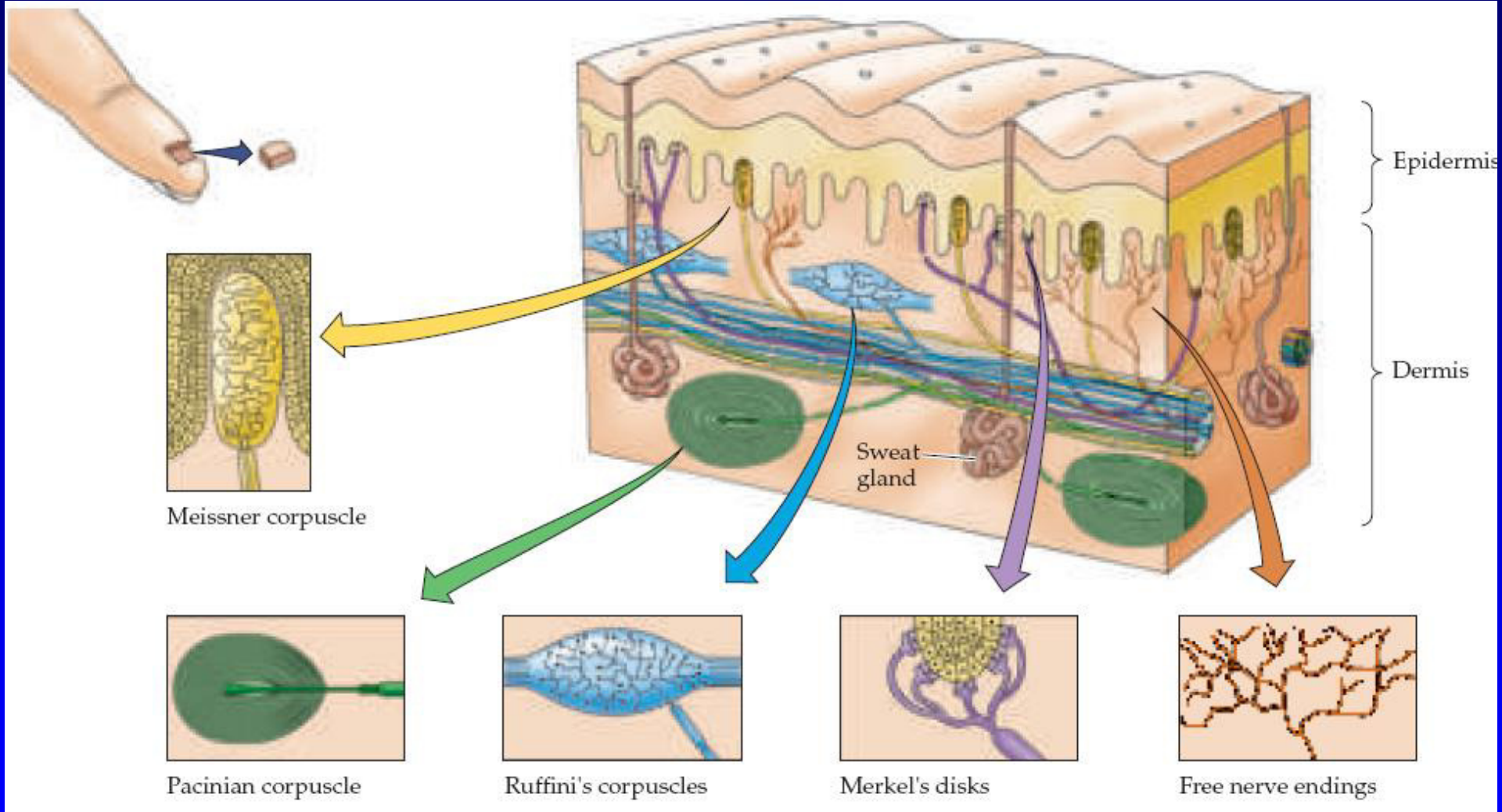


TABLE 8.1
The Major Classes of Somatic Sensory Receptors

<i>Receptor type</i>	<i>Anatomical characteristics</i>	<i>Associated axons^a (and diameters)</i>	<i>Axonal conduction velocities</i>	<i>Location</i>	<i>Function</i>	<i>Rate of adaptation</i>	<i>Threshold of activation</i>
Free nerve endings	Minimally specialized nerve endings	C, A δ	2–20 m/s	All skin	Pain, temperature, crude touch	Slow	High
Meissner's corpuscles	Encapsulated; between dermal papillae	A β 6–12 μ m		Principally glabrous skin	Touch, pressure (dynamic)	Rapid	Low
Pacinian corpuscles	Encapsulated; onionlike covering	A β 6–12 μ m		Subcutaneous tissue, interosseous membranes, viscera	Deep pressure, vibration (dynamic)	Rapid	Low
Merkel's disks	Encapsulated; associated with peptide-releasing cells	A β		All skin, hair follicles	Touch, pressure (static)	Slow	Low
Ruffini's corpuscles	Encapsulated; oriented along stretch lines	A β 6–12 μ m		All skin	Stretching of skin	Slow	Low
Muscle spindles	Highly specialized (see Figure 8.5 and Chapter 15)	Ia and II		Muscles	Muscle length	Both slow and rapid	Low
Golgi tendon organs	Highly specialized (see Chapter 15)	Ib		Tendons	Muscle tension	Slow	Low
Joint receptors	Minimally specialized	—		Joints	Joint position	Rapid	Low