

# Cortical lesions

## Frontal lobe

Cortical area	Anatomic location	Lesion effect	Youtube link
Primary Motor Area 4	Pre central gyrus	Upper Motor Neuron (UMN) syndrome (contra lateral hemiplegia)	<a href="https://youtu.be/osfv-R8VR20">https://youtu.be/osfv-R8VR20</a> 6:20-7:40
Premotor Area 6	Front of area 4	motor apraxia, spasticity, loss of postural stability	<b>Apraxia</b> <a href="https://youtu.be/cEOy3APLA-g">https://youtu.be/cEOy3APLA-g</a>
Supplementary Motor Area (SMA)	medial frontal gyrus	not definite	
Frontal Eye Field 8	in front of premotor area mainly middle frontal gyrus	deviation of both eyes to same side of lesion	<a href="https://youtu.be/WP7_B84t6BY">https://youtu.be/WP7_B84t6BY</a>
Motor (Broca's) area of speech 44	inferior frontal gyrus	motor aphasia) non-fluent aphasia	<a href="https://youtu.be/RMa9BVpJkYQ">https://youtu.be/RMa9BVpJkYQ</a>
Prefrontal Association Area (9, 10, 11, 12)	the greater part of the frontal cortex	(Alzheimer) amyloid degeneration and schizophrenia (low dopamine)	<a href="https://youtu.be/iYCcjHBuNwU">https://youtu.be/iYCcjHBuNwU</a>

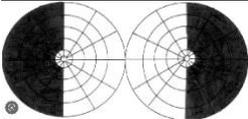
## Parietal lobe

Primary sensory area (3,1,2)	postcentral gyrus	Contralateral hemianesthesia	<a href="https://youtu.be/7PqwZaUUDJQ">https://youtu.be/7PqwZaUUDJQ</a>
Secondary sensory area	The lowermost part of the postcentral gyrus (depth of lateral sulcus)	Loss of minimal transient sensation	
Superior parietal lobule		Tactile agnosia, Asterognosis	<a href="https://youtu.be/SZONL_pOcXA">https://youtu.be/SZONL_pOcXA</a>
Wernicke's area (39,40,22)	angular gyrus (39) and supramarginal gyrus (40)	Sensory aphasia	<a href="https://youtu.be/3oef68YabD0">https://youtu.be/3oef68YabD0</a>

## Temporal lobe

primary auditory 41, 42	SUPERIOR TEMPORAL GYRUS	reduction of hearing acuity on both ears mainly on opposite side.	
auditory association 22	back of superior temporal gyrus	auditory agnosia	<a href="https://youtu.be/T5iELuILLKA">https://youtu.be/T5iELuILLKA</a>

## Occipital lobe

Primary visual area 17	round calcarine sulcus lips (cuneus above and lingual below)	contralateral homonymous hemianopia with macular sparing	<a href="https://youtu.be/5ji0ZwcP4vs">https://youtu.be/5ji0ZwcP4vs</a> 
visual association area 18-19	remainder of cuneus and lingual gyri	visual agnosia and colour blindness	<a href="https://youtu.be/6dvN4OOogIEauditory">https://youtu.be/6dvN4OOogIEauditory</a>
Occipital eye field area	rest of occipital lobe	Loss of reflex conjugate movement of both eyes to opposite side	