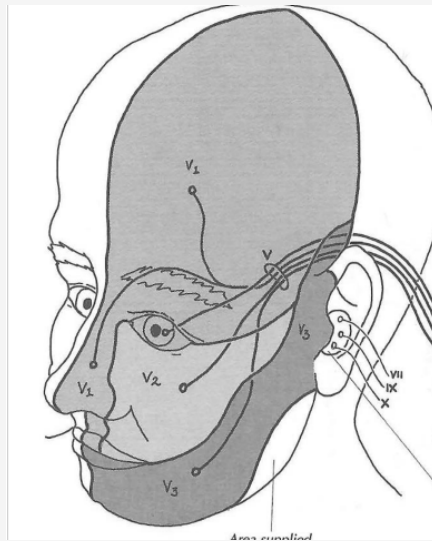


Sensation of V



Pattern of sensory loss -

1 division = peripheral nerve lesion

>1 division = Root/BS lesion

"onion skin" = BS lesion

Type of sensory loss

Dissociated sensory loss (pain + temperature affected, touch preserved) = BS lesion

Presence of limb motor &/or sensory signs? =

Yes + with cranial nerve palsies = intrinsic BS lesion

Yes + without CN palsies = supratentorial/upper cx lesion

Conditions

Vascular - ischaemia (dorsal/lateral area)

Neoplastic - benign/malignant

Demyelination - MS

Syringobulbia

Acoustic Neuroma

Trigeminal neuroma

Meningitis

Petrositis (inflammation of petrous part of temporal bone)- otitis media, osteitis/meningitis - VI affected too

Skull base Nasopharyngeal cancer/Mets

Cavernous sinus Involvement of IV, VI, + V1

- Tumour, intracavernous aneurysm, cavernous sinus thrombosis (oedema + pain in the eye +ICP), Tolosa Hunt syndrome

Conditions affecting VII

Bells Palsy: at stylomastoid foramen

Ramsay Hunt at geniculate ganglion

Hemifacial Spasm at exit from BS

Localising Concepts

Unilateral involvement of the lower face Contralateral supranuclear lesion (UMNL) - Vascular, Tumour, Demyelination, Infection

Unilateral involvement of the upper and lower face + contralateral eye closure Ipsilateral nuclear/infranuclear lesion

Peripheral Nerve Lesion

S&S	Causes
Unilateral weakness	Parotid gland lesion
Usually localised to specific muscle group	Parotid operations
	Facial Trauma
	Haematoma

Facial Canal

S&S	Causes
Unilateral, complete facial weakness	F# of skull base
Loss of taste +salivation	Spread of middle ear infection
	Bell's palsy - most common
	Leukaemic deposits

Internal Auditory Meatus

S&S	Causes
Ramsey Hunt Syndrome:	Herpes Zoster of CN VII + Chorda Tympani
Vesicular rash on external ear	
LMNL paralysis of facial nerve	
Loss of taste sensation over anterior 2/3 of tongue	

Acoustic tumours/meningioma

S&S
V, VIII (IX, X, XI) palsy
Loss of taste, salivation & lacrimation
Hyperacusis



Wallenberg syndrome

S&S	Causes
Long tract signs	Dorsal BS lesion @ level of pons - Vascular/ischaemic in origin (PICA)
Ipsilateral LMNL to face	Demyelination
Ipsilateral VI palsy	MND
Ipsilateral loss of pain & Temp of face	Syringobulbia
Contralateral decrease in touch, position and vibration	Tumour
Contralateral decrease in pain and temperature in limbs	

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