CN	Examples of Injury	Clinical Features
I	 Shearing of olfactory nerve filaments Fracture of cribriform plate Frontal lobe lesion causing compression of olfactory bulb/tract 	Anosmia or altered sense of smell and taste
II	 Possible SARS-CoV-2 infection⁷ Direct nerve trauma 	→ Immediate visual loss ⁵
11	Ischemia, edema, compression of the nerve	→ Delayed visual loss ⁵
	Optic chiasm insults	→ Bitemporal hemianopsia
III	 Basilar skull fracture Uncal herniation or compression Posterior communicating artery aneurysm 	 Binocular diplopia⁵ Ptosis Mydriasis (with involvement of parasympathetic fibers) Upward and downward gaze palsy⁵
IV	Fracture of the sphenoid wing Trochlear schwannoma ¹⁰	 Patients report seeing double images that are vertically or obliquely oriented to each other⁵ Improved diplopia with head tilted to contralateral side
V	Cavernous sinus	Asymmetry of jaw on openingWeakness with mastication
VI	Cavernous sinus or skull base injury	 Extraocular palsy resulting by medial deviation of ipsilateral eye Improved diplopia when the contralateral eye is abducted
VII	Temporal bone fracture Direct intra-temporal trauma from gunshot wounds ¹¹ Pregnancy ⁸ HSV	 Paralysis of facial expression Peripheral lesion involves muscles of both the upper and lower face and can involve loss of taste from the anterior 2/3 of the tongue. Central lesion results in sparing of upper and frontal orbicularis oculi due to crossed innervation.
	Note: Spared ability to raise eyebrows, palsy from a central process	wrinkle forehead helps differentiate a peripheral
VIII	Temporal bone fracture	Hearing loss, vertigo and nystagmus
IX	Posterior fossa or jugular foramen	Numbness of ipsilateral pharynxDysphagia with absent gag reflex
X	Skull base injury ¹¹	 Ipsilateral drooping of soft-palate with uvular deviation towards the affected side Dysphagia, dysphonia, epiglottic paralysis and decreased gag reflex
XI	Skull base injury ¹¹	Ipsilateral paralysis of sternocleidomastoid and trapezius
XII	Skull base injury Nasopharyngeal neoplasms Carotid endarterectomy	Tongue protrusion AWAY from side of lesion