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Group B - 430
CNS-block

الجدول لا يغنى عن المحاضرة

	Accessory (XI)		Hypoglossal (XII)
	Cranial (SVE)	Spinal (SVE)	GSE
Origin	Nucleus ambiguus	Spinal nucleus (ventral grey horn, upper 5 cervical)	Hypoglossal nucleus (4th ventricle)
Course	<ol style="list-style-type: none"> Unites with its other compartment & exit the skull through jugular foramen Separates from its other compartment (again) & joins the Vagus nerve 	<ol style="list-style-type: none"> Ascends & enters skull through foramen magnum Unites with its other compartment & exit the skull through jugular foramen Separates from its other compartment (again) & runs downwards to supply sternomastoid & trapezius (muscles of neck) 	<ul style="list-style-type: none"> Descends downward & Curves behind mandible Carries C1 fibers to take part in the formation of Ansa cervicalis Exits from skull via Hypoglossal canal
Supplies	<ul style="list-style-type: none"> Pharynx Larynx Soft palate Esophagus 	<ul style="list-style-type: none"> Sternomastoid Trapezius 	<ul style="list-style-type: none"> All muscles of the tongue (except palatoglossus by Vagus) proprioceptive afferents from the tongue muscles
Receives	Bilateral Corticospinal fibers (afferent) from both cerebral hemispheres		<ul style="list-style-type: none"> Corticospinal fibers (afferent) from both cerebral hemispheres Afferent fibers from nucleus solitarius and trigeminal sensory nucleus
Symptoms (when injured)	<ul style="list-style-type: none"> Dysphonia Dysphagia (<i>revise Glossopharyngeal</i>) 	<ul style="list-style-type: none"> Inability to turn the head and raise the shoulder Winging of scapula 	<ul style="list-style-type: none"> Loss of tongue movements Difficulty in chewing and speech Tongue atrophy Unilateral lesion: Deviates to the affected side Bilateral lesion: can't protrude the tongue

****The Course is not that important****

*Notice:

- XI & XII CNs are totally motors (may carry sensory fibers, but not from their origins)
- XI arises between olive & **inferior cerebellar peduncle** (revise IX & X)
- XII arises between olive & **pyramid** (the only CN which arises in this area)
- Nucleus ambiguus: supplies almost all muscles in oral cavity & neck (revise IX & X)