

## CRANIAL NERVES

12 pairs

Denoted by Roman numerals or verbally  
description:

- Nuclei,
- the output from the brain,
- the output from the skull,
- course
- innervated structure

CN I and II are different from the description: no nucleus, CNII is part of the CNS

Spectrum fibers:

fibers motor - somatomotor, parasympathetic - visceromotor, sensory - somatosensory, viscerosensory

- **N. I - NN. OLFACTORII: S**
- **N. II - N. OPTICUS: S**
- **N. III - N. OCULOMOTORIUS: SM, VM**
- **N. IV - N. TROCHLEARIS: SM**
- **N. VI - N. ABDUCENS: SM**  
N. III, IV, VI =oculomotor nerves
- **N. V - N. TRIGEMINUS: SS,SM,**
- **N. VII - N. FACIALIS: SM, VM, SS, S**
- **N. VIII - N. VESTIBULOCOCHLEARIS: S**
- **N. IX - N. GLOSSOPHARYNGEUS: SS, S, SM, VM**
- **N. X - N. VAGUS: SS, S, SM, VM**
- **N. XI - N. ACCESSORIUS: SM**  
N. IX-XI = nerves of lateral mixed system
- **N. XII - N. HYPOGLOSSUS: SM**

## OUTPUT OF THE CRANIAL NERVES FROM THE BASE OF THE BRAIN

n. III

fossa interpeduncularis

n. IV

under twins

n. V

from pons, near peduncully cerebellares medii

n.VI.

sulcus bulbopontinus

n. VII +VIII

sulcus bulbopontinus

n. IX-XI

Dorsally from olive

n. XII

Ventrally from olive

## CRANIAL NERVES AT THE SKULL BASE

**n. I**

Lamina cribrosa

**n.II**

Canalis opticus

**nn.III,IV,VI**

Fissura orbitalis superior to orbita

**n. V/1**

Fissura orbitalis superior to orbita

**n. V/2**

Foramen rotundum to fossa pterygopalatina

**n. V/3**

Foramen ovale to fossa infratemporalis

**N: VII,VIII**

Meatus acusticus internus

N. VII – canalis n. facialis, foramen stylomastoideum

**N. IX-XI**

Foramen jugulare

**N.XI**

Foramen magnum

**n. XII**

canalis n. hypoglossi