

## Syllabus Laboratorium Anatomi

### CENTRAL NERVE SYSTEM

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#### A Sequence

- I. Introduction : 30 min
- II. Pre Test :
- III. Activity Lab : 120 min
  - Discussion 30 min
  - Identify 90 min
- IV. Post Test :

#### B Topic

1. General part of cerebrum, cerebellum, diencephalon, brainstem
2. Blood supply of the brain
3. Anatomy of spinal cord

#### C Venue

Biomedical Laboratory Faculty of Medicine, Bandung Islamic University

#### D Equipment

1. Brain model
2. Spinal cord model
3. Poster

#### E Pre-requisite

- **The assignment :**
  1. Explain about scalp and layers of meningen!
  2. Explain about anatomy of cerebrum:
    - gyrus,
    - fissure
    - sulcus
    - longitudinal fissure
    - hemisphere
    - corpus callosum
    - lobes (location of frontal, temporal, parietal, occipital and insula lobes)
    - cerebral cortex (gray matter) & white matter
  3. Explain about anatomy of cerebellum :
    - lobes ( anterior, posterior, flocculonodular lobes)
    - vermis
    - hemisphere

- folia
  - arbor vitae
  - cerebellar peduncle
4. Explain about anatomy diencephalon :  
Location of thalamus, subthalamus, epithalamus, hypothalamus
  5. Explain about anatomy Brainstem :  
Location of midbrain, pons medulla oblongata
  6. Explain about anatomy of spinal cord:  
-Location of spinal cord  
-Enlargement of spinal cord  
-Structure&location of medullary cone  
-Structure&location of terminal filament  
-Structure&location of cauda equina
6. Explain about vascularization of brain (circle of willis)
- Bring your text book, reference book e.g Anatomy atlas, e-book etc. ( minimum 1 group 1 atlas ).

<b>F</b>	<b>Activity Lab</b>
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1. Students will be divided into groups
2. Discussion in 30 minute
3. **LIST ANATOMICAL REVIEW ( give the checklist ✓ if you have already known)**

SCALP & MENINGEN	CHECKLIST
<ul style="list-style-type: none"> <li>- Structure of scalp</li> <li>- Layers of meningen</li> <li>- Space between layers of meningen</li> </ul>	
CEREBRUM	CHECKLIST
<ul style="list-style-type: none"> <li>- gyrus,</li> <li>- fissure</li> <li>- sulcus</li> <li>- longitudinal fissure</li> <li>- hemisphere</li> <li>- corpus callosum</li> <li>- lobes (location of frontal, temporal, parietal, occipital and insula lobes)</li> <li>- cerebral cortex (gray matter) &amp; white matter</li> </ul>	
CEREBELLUM	CHECKLIST
<ul style="list-style-type: none"> <li>- lobes ( anterior, posterior, flocculonodular lobes)</li> <li>- vermis</li> <li>- hemisphere</li> <li>- folia</li> <li>- arbor vitae</li> <li>- cerebellar peduncle</li> </ul>	

DIENCEPHALON	CHECKLIST
-Thalamus - Subthalamus - Epithalamus -Hipothalamus	
BRAINSTEM	CHECKLIST
-Medulla oblongata -Pons -Midbrain	
BLOOD SUPPLY OF THE BRAIN	CHECKLIST
- Internal carotid artery - Anterior cerebral artery - Middle cerebral artery - Vertebral artery - Basillar artery - Posterior cerebral artery - Anterior communicating artery - Posterior communicating artery	
MEDULLA SPINALIS/SPINAL CORD	CHECKLIST
- Location of spinal cord - Enlargement of spinal cord - Structure&location of medullary cone - Structure&location of terminal fillum - Structure&location of cauda equina	

#### **G Reference**

1. Moore, Keith L.; Dalley, Arthur F. Clinical oriented anatomy
2. Richard S.Snell ; Clinically neuroanatomy



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