Section VI – Nervous System

The nervous system controls intricate activities in the body. The brain controls and coordinates bodily activities by transmitting electrical impulses to specific locations. The nervous system consists of the central nervous systems (brain and spinal cord) and the peripheral nervous system.

Medical Words

<table>
<thead>
<tr>
<th>Combining Forms</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>mening/o</td>
<td>meninges</td>
</tr>
<tr>
<td>myel/o</td>
<td>spinal cord, bone marrow</td>
</tr>
<tr>
<td>encephal/o</td>
<td>brain</td>
</tr>
<tr>
<td>neur/o</td>
<td>nerve, nervous system</td>
</tr>
<tr>
<td>crani/o</td>
<td>cranium, skull</td>
</tr>
<tr>
<td>cerebr/o</td>
<td>cerebrum</td>
</tr>
<tr>
<td>cerebell/o</td>
<td>cerebellum</td>
</tr>
<tr>
<td>comat/o</td>
<td>deep sleep (coma)</td>
</tr>
<tr>
<td>spondyl/o</td>
<td>vertebrae</td>
</tr>
<tr>
<td>kinesi/o</td>
<td>movement</td>
</tr>
<tr>
<td>lob/o</td>
<td>lobe</td>
</tr>
<tr>
<td>electr/o</td>
<td>electric</td>
</tr>
<tr>
<td>ton/o</td>
<td>tone, tension</td>
</tr>
<tr>
<td>thromb/o</td>
<td>blood clot</td>
</tr>
<tr>
<td>spin/o</td>
<td>spine</td>
</tr>
</tbody>
</table>

Suffixes

-rrhage, rrhagia  bursting forth
-phasia  speech
-algia  pain
-esthesia  sensation
-kinesia  movement
-paresis  weakness
-plegia  paralysis
-taxia  muscular coordination
-trophy  development, nourishment

Prefixes

brady-  slow
hemi-  half
contra-  against
uni-, mono-  one
quadri-  four
bi-  two
dys-  difficult
Medical Terms

Brain (encephal/o)
encephal/oma - tumor of the brain
encephal/itis – inflammation of the brain
electr/o/encephal/o/gram – record of brain’s electricity
encephal/o/sclerosis – hardening of the brain

Spinal cord
myel/itis – inflammation of the spinal cord
myel/oma – tumor of the spinal cord
myel/o/malacia – softening of the spinal cord
spin/al – pertaining to the spine

Blood clot (thromb/o)
thromb/o/cyte - blood clotting cell
thromb/o/genesis – producing or forming a blood clot

Meninges (mening/o, meningi/o)
mening/itis – inflammation of the meninges
mening/o/pathy – disease of the meninges
meningi/oma – tumor of the meninges
neur/alga – pain in a nerve
neur/o/cyte – nerve cell
neur/o/myel/itis – inflammation of the nerve and spinal cord

Stroke (cerebr/o/vascul/ar accident)
cerebr/o/vascul/ar – pertaining to the cerebrum and blood vessels
cerebr/o/scler/osis – abnormal condition of hardening of the cerebrum
cerebr/al – pertaining to the cerebrum
a/phasia – without speech
dys/phagia – difficult speech
hem/o/rrhage – bursting forth of blood
hemi/plegia – paralysis of half
quadri/plegia – paralysis of four

Abbreviations
CNS central nervous system
PNS peripheral nervous system
CVA cerebral vascular accident
TIA transient ischemic attack
PMH past medical history
CSF cerebral spinal fluid
EEG electroencephalogram
EMG electromyogram
ICP intracranial pressure
Worksheet – Section VI – Nervous System

Complete the following matching.

1. blood  A. encephal/o
2. blood clot  B. -phasia
3. without  C. myel/o
4. brain  D. scler/o
5. bursting forth  E. a-
6. hardening  F. -rrhage
7. meninges  G. neur/o
8. nerve  H. thromb/o
9. softening  I. lob/o
10. lobe  J. -malacia
11. speech  K. meningi/o
12. spinal cord  L. hem/o

Complete the following matching.

13. meningorrhagia  A. paralysis of three
14. neuromalacia  B. disease of the brain
15. encephalopathy  C. nerve pain
16. neuralgia  D. softening of the nerve
17. triplegia  E. a hemorrhage of the spinal membrane
18. myelogram  F. excision of the nerve
19. meningocele  G. study of the nerves
20. hemiparesis  H. paralysis of two
21. neurology  I. record of the spinal cord
22. neurectomy  J. herniation of the spinal membrane
23. craniotomy  K. without muscle coordination
24. ataxia  L. surgical procedure of the skull

Vocabulary

25. syncope –
26. amnesia –
27. concussion –
28. lethargy –
29. coma –
30. dementia –
31. sciatica –
32. analgesics –