

Section III – Musculoskeletal System

The musculoskeletal system is composed of bones, joints and muscles. Bones are the framework of the body and they support and protect the internal organs. Joints along with the muscles, ligaments and tendons allow 2 bones to articulate or connect and move.

<u>Medical Word</u>	<u>Meaning</u>
<u>Combining Form</u>	
calc/o	calcium
chondr/o	cartilage
crani/o	skull or cranium
cephal/o	head
carp/o	carpal bones
metacarp/o	metacarpals
phalang/o	fingers and toes
dactyl/o	digits – fingers and toes
humer/o	humerus
uln/o	ulna
radi/o	radius
vertebr/o	vertebrae
spin/o	spine
spondyl/o	vertebrae, backbone
cost/o	ribs
stern/o	sterum
pelv/i, pelv/o	pelvis
femor/o	femur
patell/o	patella – knee cap
tibi/o	tibia
fibul/o	fibula
calcane/o	calcaneum or heel
synov/o	synovial membrane
oste/o	bone
myel/o	spinal cord, bone marrow
my/o	muscle
ten/o, tend/o, tendin/o	tendon
cervic/o	cervical vertebrae, neck
thorac/o	thoracic vertebrae, chest
lumb/o	lumbar vertebrae, loin
sacr/o	sacral vertebrae, lower back
radi/o	x-rays
arthr/o	joint
ton/o	tone
ped/i	foot

Suffix

-genesis	forming, producing
-gram	record
-plegia	paralysis
-algia, dynia	pain
-itis	inflammation
-sclerosis	abnormal hardening
-oma	tumor
-clasis	break, fracture, refracture
-desis	binding, fixation of a bone or joint
-malacia	softening
-porosis	porous
-osis	abnormal condition
-pathy	disease
-plasty	surgical repair
-tome	instrument to cut
-ectomy	excision, removal
-kinesia	movement
-trophy	development
-scopy	visual examination
-centesis	puncture to withdraw fluid
-cele	hernia, swelling

Prefix

hemi-	half
quadri-	4
para-	2 or near, around, bedsides
bi-	2, double
tri-	3
inter-	between
sub-	under, beneath
peri-	around
a-, an-	without, not
anti-	against
en-	in
epi-	above, upon
pre-	before
dia-	through

Medical Terms

Bones (oste/o)

oste/o/dynia	pain in the bone
oste/o/cytes	bone cells
oste/o/pathy	disease of the bones
oste/o/gensis	formation or production of bone

Cartilage (chondr/o)	
chondr/o/gensis	forming cartilage
chondr/o/cyte	cartilage cells
Head (cephal/o)	
cephal/o/dynia	head pain
encephal/o/pathy	disease in the head
Ribs (cost/o)	
inter/cost/al	pertaining to between the ribs
sub/cost/al	pertaining to under the ribs
cost/algia	rib pain
Vertebra (vertebr/o)	
vertebr/al	pertaining to the vertebrae
spondyl/o/dynia	painful condition of the vertebrae
spondyl/itis	inflammation of the backbone
spondyl/o/pathy	disease of the backbone
inter/vertebr/al	pertaining to between the vertebrae
cervic/al	pertaining to the neck area
thorac/ic	pertaining to the chest area
lumb/ar	pertaining to the loin
sacr/al	pertaining to the lower back
Muscles (my/o)	
my/o/plasty	surgical repair of the muscle
my/algia	pain in the muscle
my/o/pathy	disease of the muscle
my/o/genesis	formation of the muscle
my/o/sclerosis	hardening of the muscle
Tendon (tend/o)	
tend/o/tome	instrument to cut the tendon
tend/o/plasty	surgical repair of the tendon
Joint (arthr/o)	
arthr/o/centesis	puncture to withdraw fluid from the joint
arthr/o/scopy	visual examination of the joint
arthr/o/graphy	process of recording visualization of the joint
arthr/o/plasty	surgical repair of the joint
Paralysis (-plegia)	
quadri/plegia	paralysis of 4 limbs
hemi/plegia	paralysis of one side of the body
para/plegia	paralysis of 2 limbs
tri/plegia	paralysis of 3 limbs

Abbreviations

ABD	abduction
ADD	adduction
AROM	active range of motion
AAROM	active assistive range of motion
PROM	passive range of motion
A/E	above elbow
AEA	above elbow amputation
A/K	above knee
AFO	ankle foot orthosis
AKA	above the knee amputation
B	bilateral
BLE	bilateral lower extremity
BUE	bilateral upper extremity
B/K	below knee
BKA	below knee amputation
B/E	below elbow
BEA	below elbow amputation
CPM	continuous passive motion
DTR	deep tendon reflex
Ex	exercise
Ext	extension
Flex	flexion
SLB	short leg brace
SLR	straight leg raises
WB	weight bearing
TDWB	touch down weight bearing
PWB	partial weight bearing
WBAT	weight bearing as tolerated
THA	total hip arthroplasty
THR	total hip replacement
TKR	total knee replacement

Worksheet – Section III – Musculoskeletal System

Match the following.

- | | | | |
|-----------|--------------------------|----|------------|
| _____ 1. | between | A. | calc/o |
| _____ 2. | brain | B. | chondr/o |
| _____ 3. | bone | C. | oste/o |
| _____ 4. | cartilage | D. | mening/o |
| _____ 5. | calcium | E. | encephal/o |
| _____ 6. | chest | F. | hemi- |
| _____ 7. | far, farthest | G. | cost/o |
| _____ 8. | half | H. | -genesis |
| _____ 9. | four | I. | -cele |
| _____ 10. | head | J. | -graphy |
| _____ 11. | hernia, swelling | K. | cervic/o |
| _____ 12. | joint | L. | hypo- |
| _____ 13. | loin | M. | cephal/o |
| _____ 14. | meninges | N. | sacr/o |
| _____ 15. | muscle | O. | -plegia |
| _____ 16. | neck | P. | -oma |
| _____ 17. | paralysis | Q. | myel/o |
| _____ 18. | process of recording | R. | inter- |
| _____ 19. | producing, forming | S. | thorac/o |
| _____ 20. | ribs | T. | spondyl/o |
| _____ 21. | record | U. | quadri- |
| _____ 22. | sacrum | V. | -gram |
| _____ 23. | tumor | W. | my/o |
| _____ 24. | spinal cord, bone marrow | X. | dist/o |
| _____ 25. | under, below | Y. | arth/o |
| _____ 26. | vertebrae | Z. | lumb/o |

Define the following suffixes.

27. -genesis –
28. -centesis –
29. -pathy –
30. -dynia –
31. -osis –
32. -al –
33. -ic –
34. -sclerosis –
35. -desis –
36. -malacia –

Define the following prefixes.

- 37. anti- -
- 38. hemi- -
- 39. hyper- -
- 40. inter- -
- 41. peri- -
- 42. quadri- -
- 43. bi- -
- 44. a- -

Define the following medical words.

- 45. arthritis –
- 46. chondroma –
- 47. arthrosclerosis –
- 48. spondylitis –
- 49. ostealgia –
- 50. tendonitis –
- 51. myoectomy –
- 52. myoplasty –
- 53. myalgia –
- 54. osteomalacia –
- 55. hypertonia –
- 56. dystonia –
- 57. arthroscope -

Vocabulary

- 58. articulation –
- 59. adhesion –
- 60. contracture –
- 61. foramen –
- 62. bursa –
- 63. epiphysis –
- 64. diaphysis –
- 65. hernia –