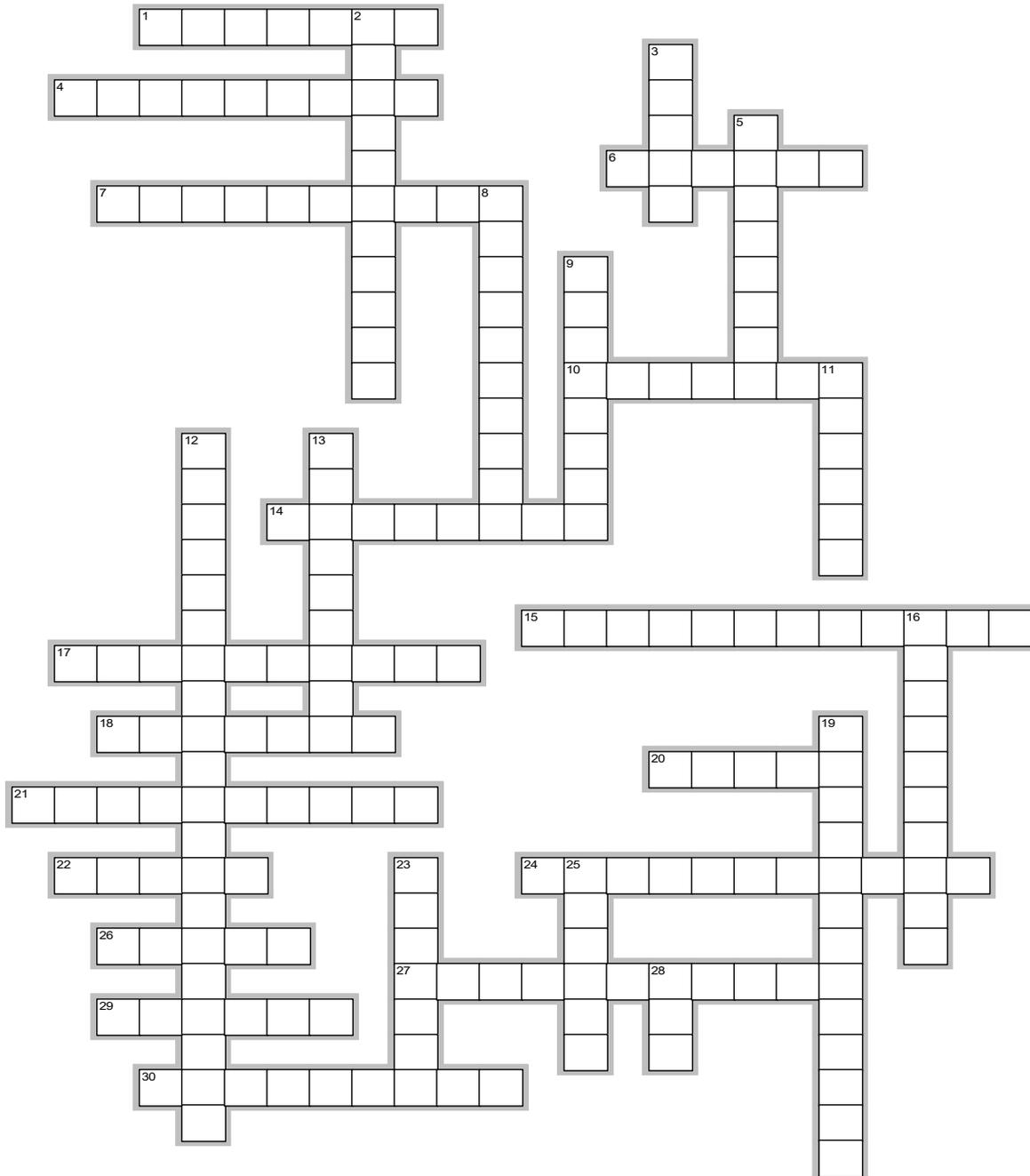


Chiropractic Essentials Part 1

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PHYSIOLOGY – Musculoskeletal

Across

1. Glycine is the neurotransmitter found in these cells.
4. Biceps lengthening during contracting.
6. Sustained contraction without relaxation.
7. Flexing the elbow with a weight in the hand is an example of this kind of contraction.
10. Ion that is actively pumped back into the sarcoplasmic reticulum during relaxation.
14. Calcium binding protein in muscles.
15. Fewer found in fast twitch fibers.
17. Cell membrane around sacromeres.
18. The H, I and Z bands do this during contraction.
20. Color of fast twitch fibers.
21. Speed of the contraction remains the same.
22. Number of Troponin types.
24. Troponin T binds to this.
26. Troponin 1 binds to this.
27. The action potential generated at the motor end plate does this to the T tubules.
29. Can result in the deep tendon reflex being hyperactive.
30. Contraction where the muscle fibers do not change in length.

Down

2. aka A band
3. Smooth muscle type found in the walls of blood vessels.
5. Stroking the sole of the foot with a sharp object.
8. In smooth muscle, calcium binds to this.
9. Slow twitch fibers use less of this than fast twitch fibers.
11. Found in thick myofibrils.
12. Enzyme found in the synaptic cleft.
13. Functional unit of skeletal muscle.
16. Occurs when phosphorylated myosin is dephosphorylated.
19. Junction where the ends of the axons of the a-motor neurons are connected to motor end plates of muscles fibrils.
23. Simple unit type of smooth muscles are found here and permit coordinated contraction.
25. Hammer used to strike a muscle tendon.
28. Color of slow twitch fibers.