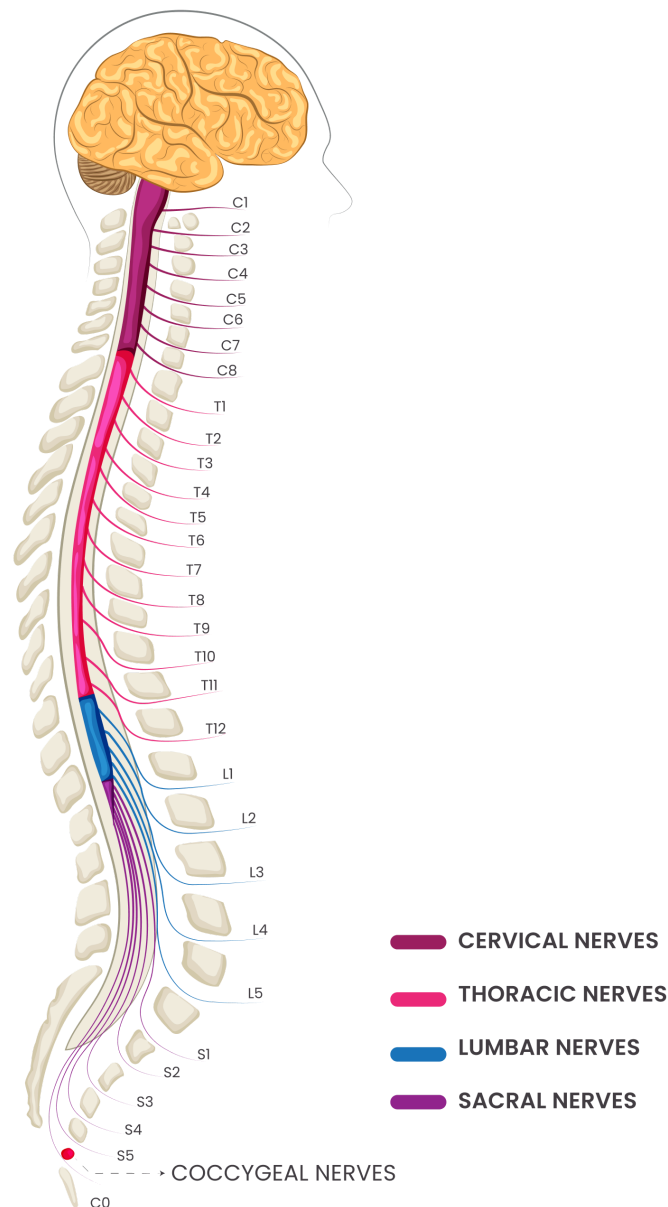


Spinal Nerve Diagram



Cervical nerves (C1–C8)

- **C1:** Supplies the head, scalp, and parts of the inner ear, but lacks a dermatome.
- **C2:** Provides sensation to the back of the head.
- **C3:** Responsible for sensory input to the scalp and sides of the face.
- **C4:** Controls the diaphragm and some shoulder movements, playing a vital role in breathing.
- **C5:** Innervates the shoulders and upper arms, especially impacting bicep function.
- **C6:** Governs wrist extension and sensation in the thumb.
- **C7:** Affects triceps function and sensation down to the middle finger.
- **C8:** Involved in hand movements and gripping, with sensory input to the side of the hand near the little finger.

Thoracic nerves (T1–T12)

- **T1–T2:** Provide nerve supply to the upper chest and arms.
- **T3–T5:** Primarily innervate the upper thoracic organs, with dermatomes covering the upper chest and back.
- **T6–T8:** Control parts of the chest and abdomen, creating a belt-like dermatome around the mid-abdomen.
- **T9–T12:** Govern lower abdominal sensations and functions, with dermatomes covering the mid-back and lower abdomen.

Lumbar nerves (L1–L5)

- **L1:** Responsible for sensation in the groin and genital areas and for controlling hip movement.
- **L2–L4:** Convey sensation from the front and inner thighs, extending to the lower legs.
- **L5:** Affects sensation on the outer thigh down to the top outer portion of the lower leg.

Sacral nerves (S1–S5)

- **S1–S2:** Provide sensory innervation to the genitals, anus, sacrum, buttocks, and back of the thighs, and play a role in pelvic organ control.
- **S3–S5:** Include fibers from the pudendal nerve, essential for functions in the perineal area.

Coccygeal nerves (Co)

- This single nerve pair innervates the skin around the coccyx, with limited sensory function compared to other spinal nerves.

Additional notes

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