

The seventh thoracic dorsal nerve roots contain afferent somatic and visceral nerve fibers corresponding to the seventh thoracic spinal cord segment. They emerge as two or three rows of rootlets from the postero-lateral sulci of the spinal cord. Rootlets of adjacent dorsal roots may communicate via thin branches.

The roots pass infero-laterally to their exit through the intervertebral foramina between the pedicles of T7 and T8. They are slightly larger in diameter than their corresponding ventral roots and larger in obliquity and length than the dorsal roots above. They pass over the superior surface of the transverse processes of T8 to join with the seventh thoracic ventral roots to form the seventh thoracic spinal nerves. Each of the seventh thoracic dorsal roots possesses an ovoid spinal ganglion (dorsal root ganglion) proximal to where it joins the seventh thoracic ventral nerve roots.

The roots are covered by a sleeve of pia mater, which is continuous with that of the spinal cord, and loosely invested by a prolongation of dura and arachnoid mater (the dural sleeve) almost as far as the spinal nerves.