

Pacinian corpuscles in a cervical chondrocutaneous remnant: A case report and update of pacinian corpuscles

Feito J.

Ramos-García J.L.

Gago Á.

Cobo J.L.

García-Suárez O.

Junquera L.M.

Vega J.A.

Cervical chondrocutaneous remnants are congenital, benign, and rare neck masses. We present here for the first time the immunohistochemical profile of Pacinian corpuscles present in cervical chondrocutaneous remnants, removed, and localized in the territory of the second branchial arch from a 5-year-old girl. We have performed immunohistochemistry to analyze these sensory corpuscles using a battery of antibodies including markers for each corpuscle constituent. The central axon was immunoreactive for neurofilaments, neuron-specific enolase, and neural cell adhesion molecule; the Schwann-related cells forming the inner core displayed immunoreactivity for S100 protein, vimentin, and neural cell adhesion molecule; the outer core and the capsule were positive for vimentin, epithelial membrane antigen, and glucose transporter 1. These results are discussed in topographical differences. Moreover, a brief update about the structure, protein composition, and development of Pacinian corpuscles was performed. © 2015 Wolters Kluwer Health, Inc.

cervical chondrocutaneous remnant

embryonic neck malformations

immunohistochemistry

Pacinian sensory corpuscles

epithelial membrane antigen

glucose transporter 1

nerve cell adhesion molecule

neuron specific enolase

protein S 100

vimentin

biological marker

Article

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Pacinian Corpuscles