

Clinical-Medical Image

Scarcely Seen Carotid Body Tumor Feeding by both External and Internal Carotid System

Cheng-Che Tseng^{1,2*}, Huai-Min Chena^{1,2}, and Ying-Fu Chena^{1,2}

¹Division of Cardiovascular Surgery, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan

²Graduate Institute of Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan



Figure 1: The early (A) and later (B) phase of carotid angiography demonstrated individual feeding artery (♠) of tumor arising from internal and external carotid arteries.

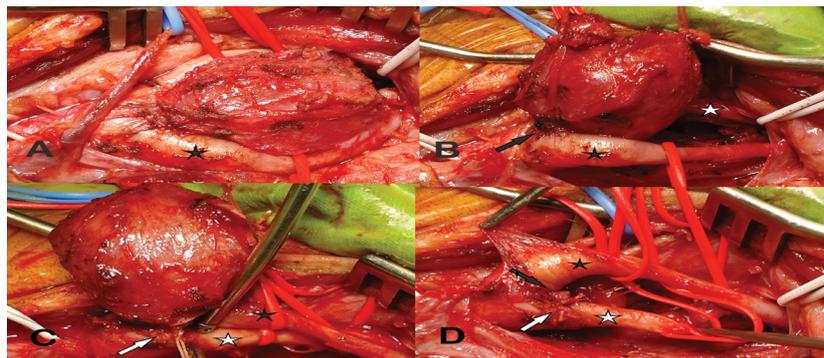


Figure 2: The operative images revealed: (A) the just exposure of tumor and internal carotid artery (ICA: ★); (B) with isolation the tumor's feeding artery (♠) arising from the ICA; (C) flip the ICA and tumor to expose the external carotid (ECA: ★) and the feeding artery (♠) arising from the ECA; (D) after removal the tumor, both feeding arteries from ICA and ECA are easily seen.

Clinical Image

The 36-year-old woman presented with a palpable mass over the left neck for a number of years. Sonography revealed a tumor located within the left carotid bifurcation with significant vascularity, and the carotid body tumor was impressed. The selective angiography showed blood supply of the tumor from both internal and external carotid system (Figure 1). During surgery, both feeding arteries from proximal of internal (ICA) and external carotid artery (ECA) were found (Figure 2). A review of the literature showed that the feeding arteries of carotid body tumor are usually from the ECA, some from the ICA and even from the vertebral artery, but feeding from both the external and internal system has never been reported. Several procedures have been introduced to reduce the risk of bleeding in operation, but acquiring detailed information concerning feeding artery is most important, including the source, size, location, and the impact on interrupting the blood flow of carotid artery.

Keywords: Sonography; Carotid artery

Declaration of Interests

The authors declare that they have no competing interests.

*Corresponding author: Cheng-Che Tseng, MD, Division of Cardiovascular Surgery, Department of Surgery, Kaohsiung Medical University Hospital, 100, Shih-Chuan 1st Road, Kaohsiung, Taiwan, Tel: + 886-7-3121101; E-mail: tttzeng@gmail.com

Citation: Tsenga CC, Chena HM, Chena YF (2021) Scarcely Seen Carotid Body Tumor Feeding by both External and Internal Carotid System. *Int J Clin Med Imaging* 8:745.

Copyright: © 2021 Tsenga CC, et al. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.