Ann Surg Oncol (2021) 28:S553–S554
https://doi.org/10.1245/s10434-021-10421-3

Annals of
SURGICAL ONCOLOGY
OFFICIAL JOURNAL OF THE SOCIETY OF SURGICAL ONCOLOGY

ASO VISUAL ABSTRACT

ASO Visual Abstract: Relevance of Preoperative Identification of Adamkiewicz Artery in Posterior Mediastinal Pediatric Tumors

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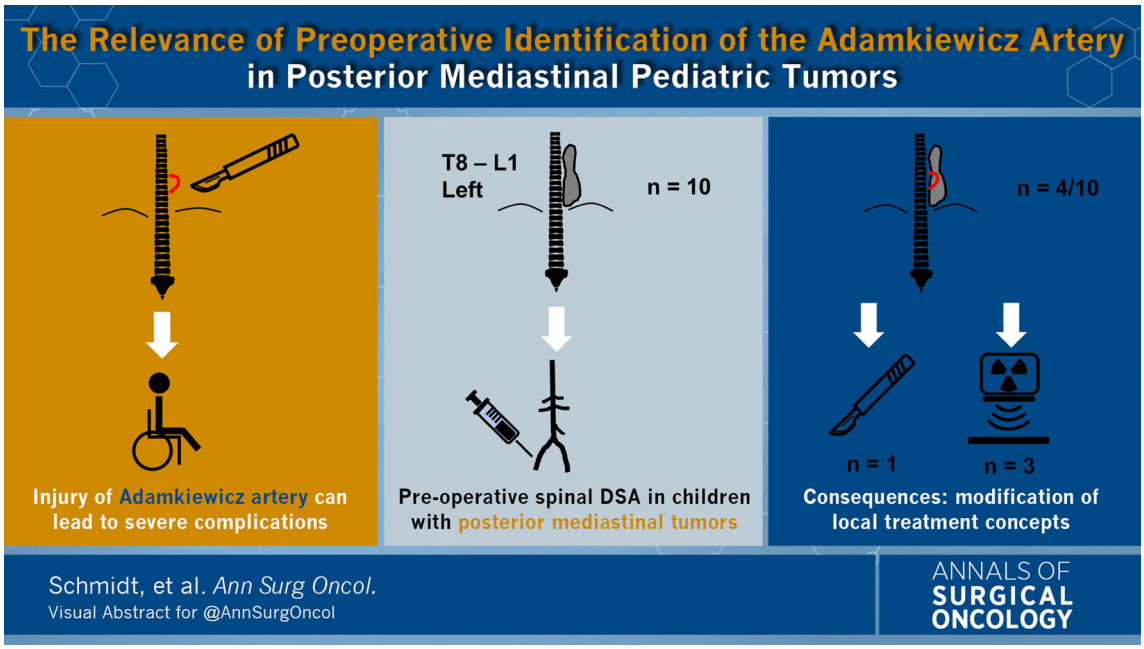
Injury of the artery of Adamkiewicz (AKA) may lead to spinal cord ischemia and severe neurologic complications. We analyzed the importance of preoperative identification of the AKA by spinal digital subtraction angiography (DSA) for the therapeutic procedure in children with posterior mediastinal tumors (https://doi.org/10.1245/s10434-021-10381-8). Thirty-six children with posterior mediastinal tumors were evaluated for surgery at our clinic. In ten children with left-sided or bilateral tumor localized at vertebral level T8 to L1, the most probable location of the artery, spinal DSA was performed during preoperative workup to assess AKA. The AKA was identified in all cases, and proximity to the tumor was detected in four patients, in three of whom the planned surgery was changed to irradiation. No complications occurred during spinal DSA or surgery.



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Published Online: 20 July 2021

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In posterior mediastinal pediatric tumors, spinal DSA is a safe and reliable method for preoperative visualization of the AKA. It can reveal proximity to the tumor and guide local therapy, thereby avoiding critical intra- or postoperative situations.

FUNDING This research did not receive any specific Grant from funding agencies in the public, commercial, or not-for-profit sectors.

DISCLOSURE The authors declared that they have no conflict of interest.