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Multiple Renal Arteries and its Surgical and Radiological Importance

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Abstract

Context: Congenital anomalies of vasculatures of kidneys are very common. Among them incidence of multiple renal arteries are very common and ranges between 25 to 30%. **Objective:** To describe and analyze the surgical and radiological significance of the multiple renal arteries. **Design:** The presence of aberrant and accessory right renal arteries was seen as an incidental finding during dissection of an adult female cadaver aged 60 years. **Outcome:** The present era with use of invasive, non-invasive, diagnostic and interventional procedures in cardiovascular and renal diseases makes it important that the type and frequency of vascular variations are well documented and understood. With the advent of laparoscopic renal surgeries and donor nephrectomies and radiological procedures it becomes mandatory for the surgeons and radiologist to understand the abnormality or variations in the renal vasculature. Otherwise renal transplant may be jeopardized by the presence of aberrant renal vessels. **Conclusion:** Knowledge of multiple renal arteries in renal vasculature is important in renal surgeries particularly segmental resection and renal transplantation. The arterial variations of renal vasculature are also important for surgeons and radiologist to plan for surgical as well as for radiological procedures.