

No disclosures

Introduction

- Pediatric patients with numerous vascular pathologies are a significantly underrepresented population.
- Very few, if any comprehensive vascular surgery programs exist to provide care to these children, including within dedicated pediatric hospitals.
- \bullet The role of open vascular surgery has been defined in certain pathologies.
- Less is known about the utility and safety of endovascular interventions.

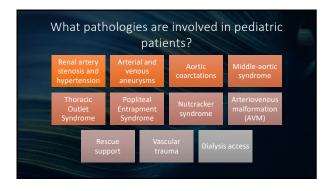


Introduction

 In 2022 we established one of the first comprehensive pediatric vascular surgery programs to date with a full-time call schedule and dedicated clinic and operating room block time





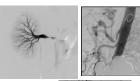


Role of endovascular therapy

- Diagnosis
- Interventions prior to open aortic/visceral arterial reconstructions
- Primary interventions
- Rescue procedures and secondary interventions
- Blunt aortic injuries

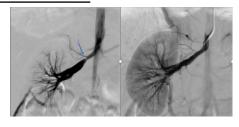
Diagnostic tool

- Renal artery stenosis
- Thoracic outlet syndrome • Nutcracker syndrome
- MALS
- Traumatic injuries





<u>Interventions prior to open renal artery</u> <u>revascularization</u>

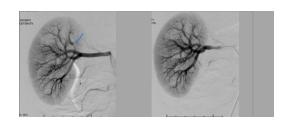


Primary interventions: distal renal artery disease



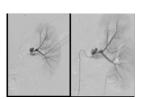


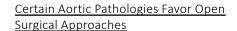
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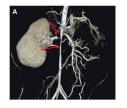


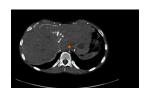
Complications



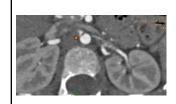








<u>Certain Aortic Pathologies Favor Open</u> <u>Surgical Approaches</u>





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Rescue Procedures and Secondary Interventions

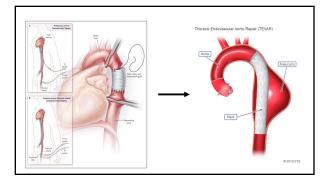


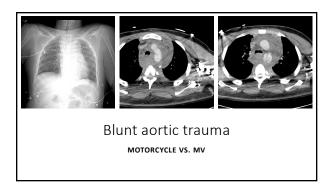


Rescue Procedures and Secondary Interventions



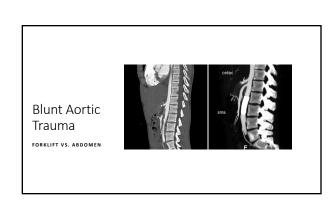






TEVAR in Young Patients - Aortic diameter - Aortic arch angulation - Long term follow up





Vascular surgeons provide a "patient first" approach in managing pediatric vascular pathologies Endovascular interventions have a role in diagnosing and treating numerous pathologies Most important is acknowledging the limitations and pitfalls of endovascular therapies Better define the role of endovascular therapies in children moving forward Understanding the role of endovascular interventions is clearly different in pediatric patients given the imperative allowing for durability and the growth of children.

