ISSN: 2475-3181

Vol.0 No.0



Renal Endovascular Stenting of a Non-atherosclerotic Renal Artery Stenosis secondary to Takayasu Arteritis: A Case Report

Elrey P. Inocian, Perpetual Succour Hospital Clinic, Philippines



## Abstract

Background: Takayasu arteritis (TA) is a rare inflammatory and stenotic diseases of medium- and large-sized arteries with an incidence rate of 1.2-2.6 per million. It has a strong predilection to the aortic arch and its branches but may cause renal artery stenosis (RAS) in few cases. The symptoms of TA are often alleviated with glucocorticoids. However, in case of impending renal insufficiency, angioplasty or stenting is usually indicated. Stenting has been well-described in atherosclerotic RAS but not in non-atherosclerotic RAS secondary to Takayasu arteritis. Hence, it is imperative to report this uncommonly performed procedure in a rare case of non-atherosclerotic RAS secondary to Takayasu arteritis and its outcomes.

Case Presentation: A 38-year old, female, Filipino Descent, had an incidental finding of small left kidney on ultrasound. Blood pressure and pulse discrepancies were noted on both extremities. Renal artery duplex scan showed a totally occluded left renal artery and hemodynamically significant right renal artery stenosis. Invasive renal angiography and aortogram confirmed these findings, which also revealed stenosis of the subclavian arteries and the celiac artery and its branches, consistent with Type V Takayasu

arteritis. Patient underwent stenting of the right renal artery, which resulted to a remarkable improvement in the blood pressure and right renal artery velocity. Six months after the procedure, invasive angiography was performed, which demonstrated the still widely patent right renal artery stent.

**Conclusion:** The use of renal endovascular stenting is an effective treatment option with good clinical outcomes in non-atherosclerotic renal artery stenosis secondary to Takayasu arteritis.

16th World Nephrology Conference August 20-21, 2020 Webinar

## **Biography**

- 1. Dr. Elrey P. Inocian is a second year Internal Medicine Resident Physician in Perpetual Succour Hospital in Cebu City, Philippines. He graduated Cumlaude during in his Medical School.
  - 1. Dr. Brett Batoctoy is a Cardiologist in Perpetual Succour Hospital.

ISSN: 2475-3181 Journal of Hepatology and Gastrointestinal disorders Volume 00, Issue 0

ISSN: 2475-3181

Vol.0 No.0



- 2. Dr. Francisco Chio Jr. is an Interventional Cardiologist who is active in both research and clinical practice.
- 3. Dr. Erastothenes Polito is a Nephrology Fellow who has published numerous studies in the Philippine Journal of Nephrology.
- 4. Dr. Hariett Porsuello-Torres is a Nephrologist and an active consultant in the residency and fellowship training in Nephrology in Perpetual Succour Hospital.

multispecialty hospitals like Ruby Hall Clinic, Pune and Jahangir Nursing Home, Pune. For the last 35 plus years he has been working at his own hospital at Chinchwad, Pune Maharashtra India.

## References:

- 5. Modest Static Pressure Suppresses Columnar Epithelial Cell Growth in Association with Cell Shape and Cytoskeletal Modifications, Man Hagiyama, Norikazu Yabuta, Daisuke Okuzaki, Takao Inoue, Yasutoshi Takashima, Ryuichiro Kimura, Aritoshi Ri and Akihiko It
- 6. Devitalisation of human cartilage by high hydrostatic pressure treatment: Subsequent cultivation of chondrocytes and mesenchymal stem cells on the devitalised tissue