



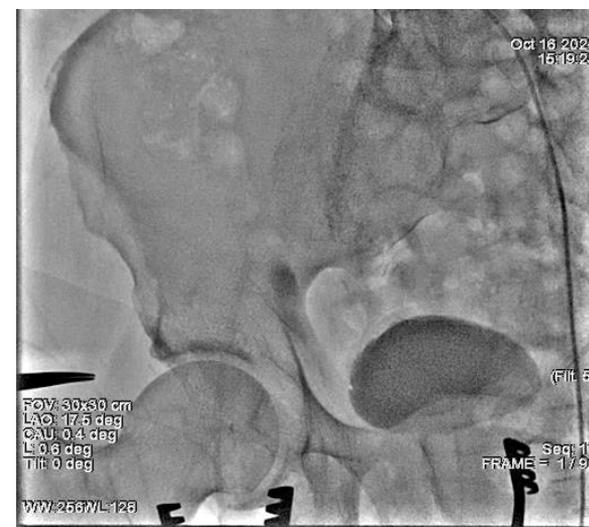
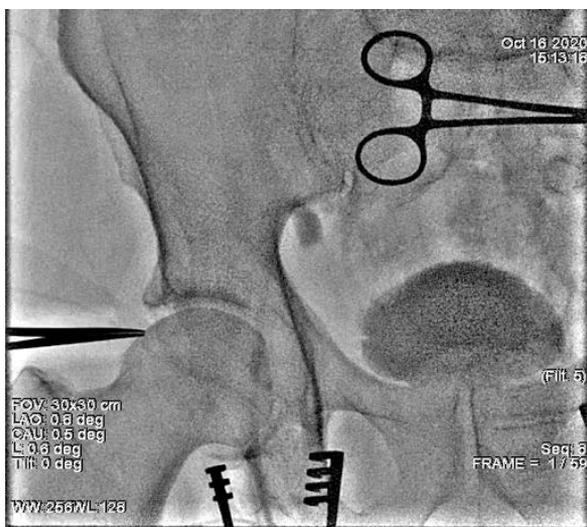
Endovascular Repair Of A Giant Right Common
Iliac Artery Aneurysm with Severely Tortuous
Arterial Access, Along With Coil Embolisation
Of The Right Internal Iliac Artery

Speaker: Dr H.K Bali, MD ; DM

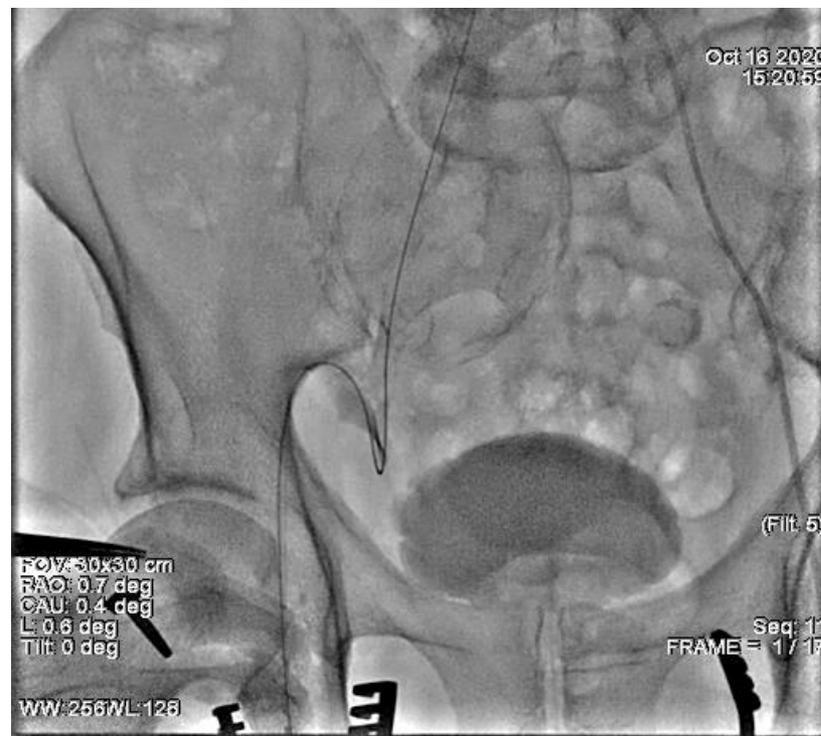
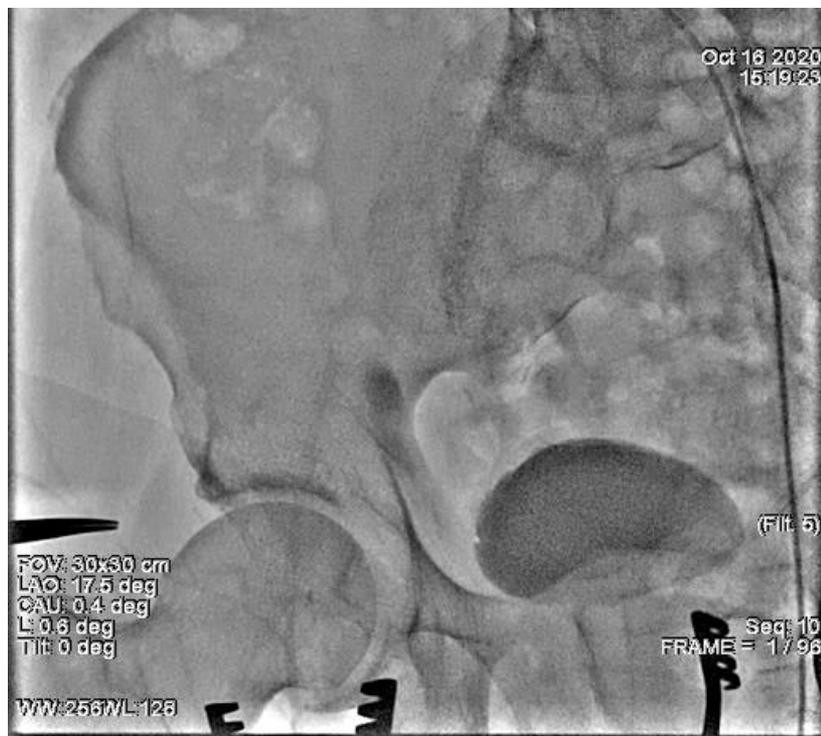
I do not have any potential conflict of interest to report

- 76 years old male patient
- K/C/O DM2, Essential Hypertension, CAD-Single vessel disease
- Admitted with C/O intermittent abdominal pain.
- On examination:
- Vitals normal, no abnormality seen on physical examination
- Underwent CT abdominal angiography which revealed:
 - Fusiform dilatation of almost entire length of right common iliac artery with maximum diameter of 6.6 cm antero-posteriorly.
 - Aneurysm approximate of 8.2 cm when measured cranio-caudally in length.
 - The cranial end of the aneurysm approximately 2.2 cm from aortic bifurcation.
 - The caudal end seen to reach up to bifurcation of common iliac artery.
 - The patent lumen measured approximately 1.6 cm in diameter.
 - Right external iliac artery extremely tortuous in course.

Diagnostic angiography confirming the presence of a giant right common iliac artery aneurysm and tortuous arterial access

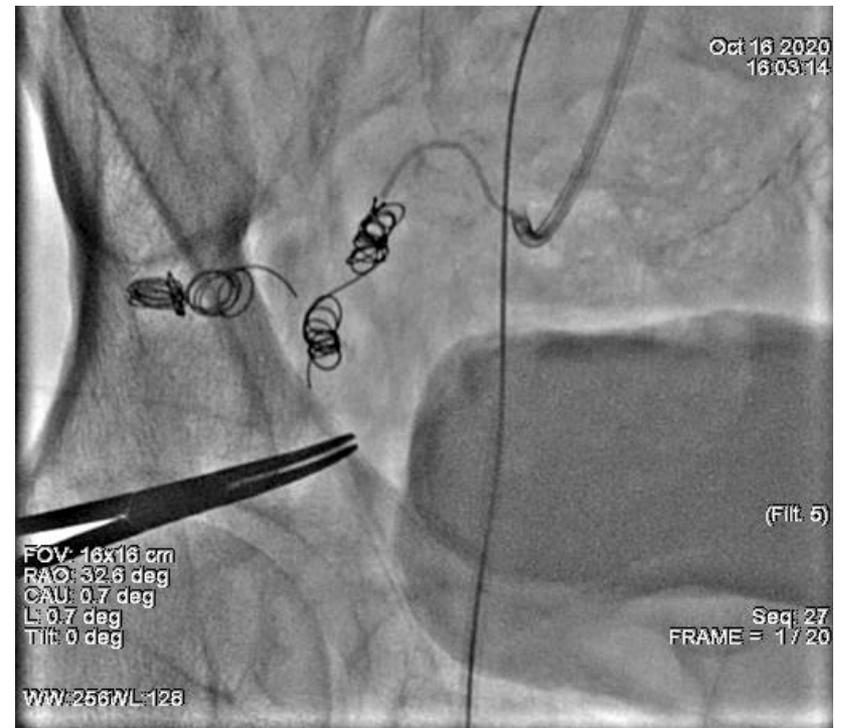
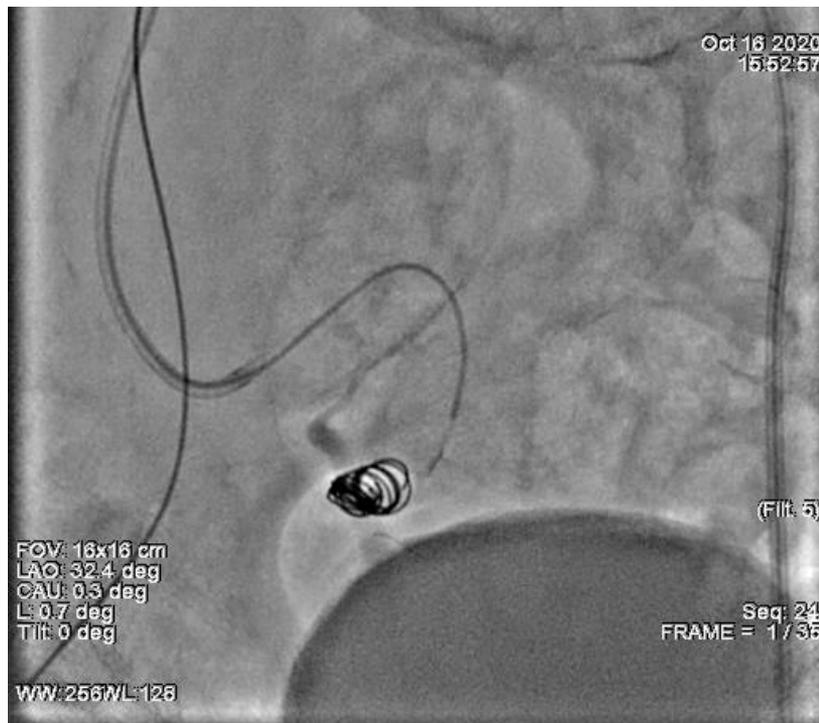


- Endovascular repair of giant right common iliac artery aneurysm done via bilateral femoral route.
- Guiding wire: Terumo 0.35-260 J Tip, Terumo 0.35-260 straight tip, Amplatz extra stiff wire 0.35-260 cm J tip, Lunderquist extra stiff DC wire 0.35-260 cm
- Catheter: 7F JR 3.5, 6F JR 3.5, 6F AL1, 5F Marker pigtail
- Coils: Right internal iliac (two branch artery embolization done with 4 Cook micro nester embolisation coils (2 coils 18-14-10, 2 coils 18-14-8)
- Stent Grafts: ENDURANT II Stent graft 25x13x166 mm deployed in abdominal aorta and right iliac artery extended with ENDURANT II stent graft (16x13x156 mm), ENDURANT II stent graft 16x20x124 mm deployed in left side up to common iliac artery
- Balloon: Post stent dilatation done with Reliant AB46 balloon
- Additional hardware used: Sheath 18F X12 cm, 16F X 12 cm, Cross over sheath 7F, Progreat microcatheter 2.7 F.



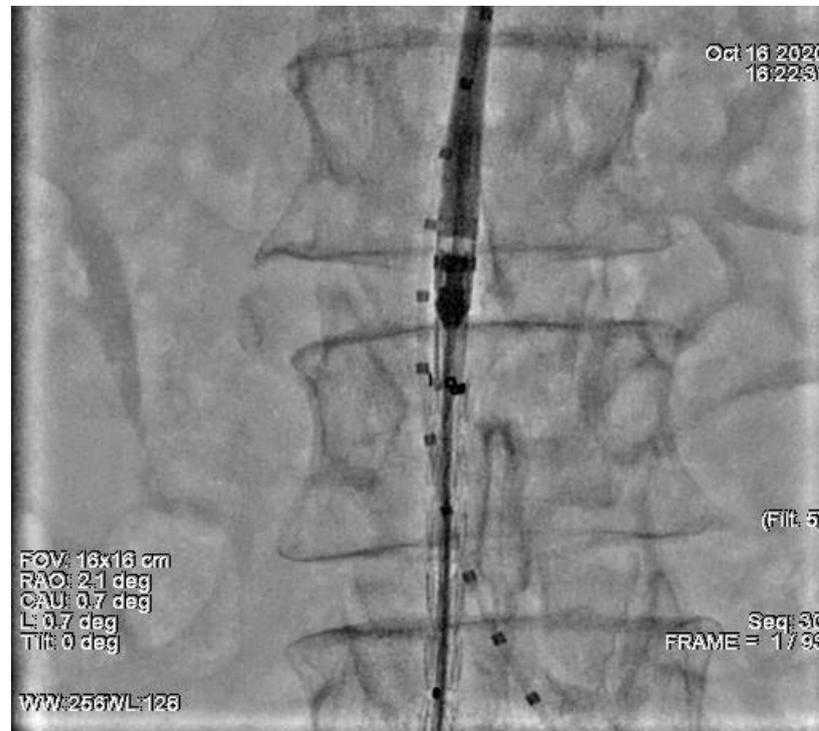
Right Internal Iliac Artery Coil Embolisation

Coil embolisation of the right internal iliac artery using the Cook micro nester embolisation coils (2 coils 18-14-10, 2 coils 18-14-8)



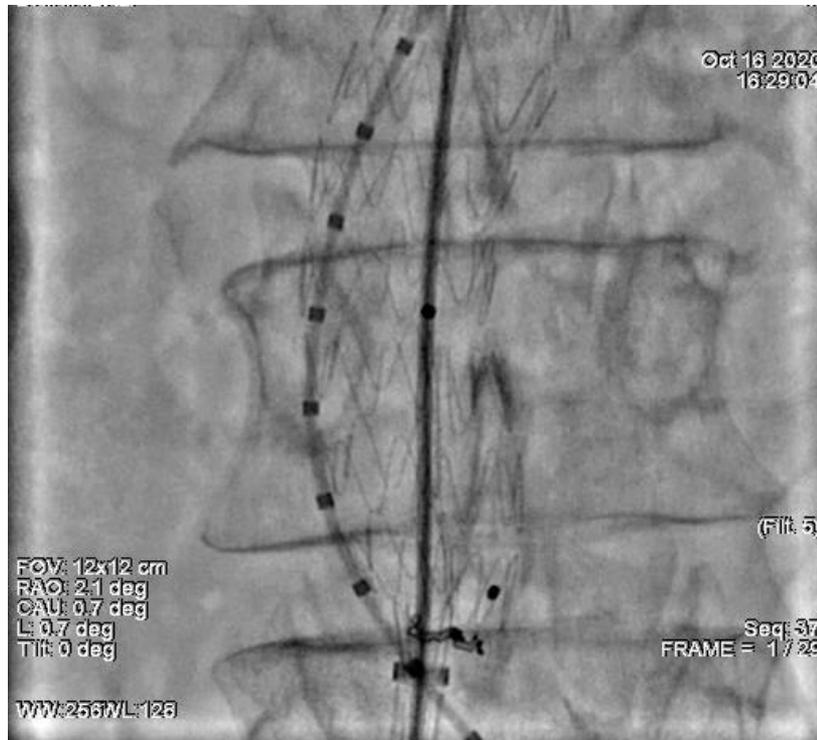
Infrarenal Stent Graft Deployment (Endurant II)

A Lunderquist wire advanced over the 7F sheath through the right femoral arterial access, and 5F marker pigtail advanced into the right aorto iliac system.



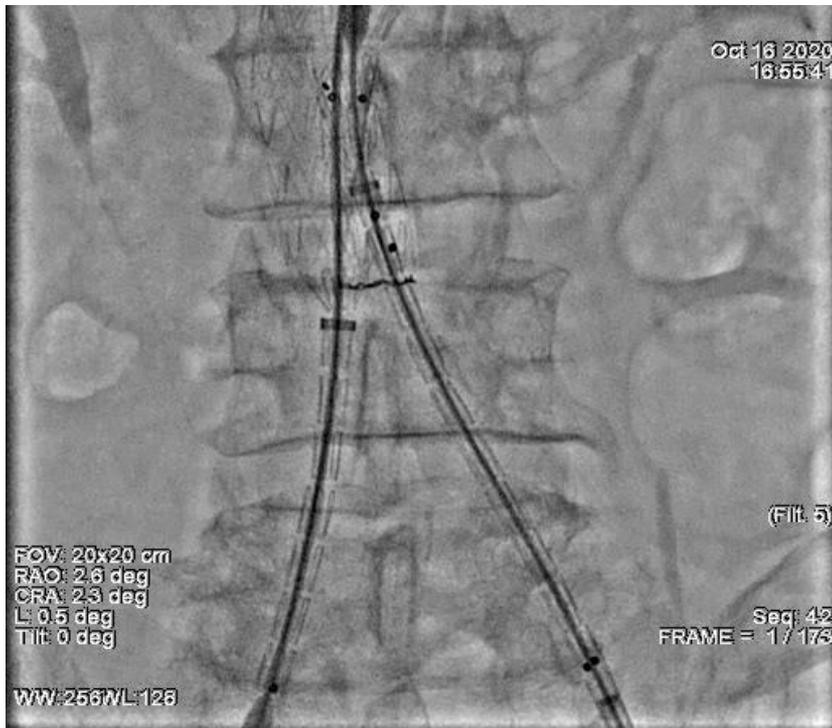
Endurant II Stent Graft Deployment

Repair of the right common iliac artery aneurysm performed using Endurant II Stent graft 25x13x166 mm, deployed in abdominal aorta and right common iliac artery

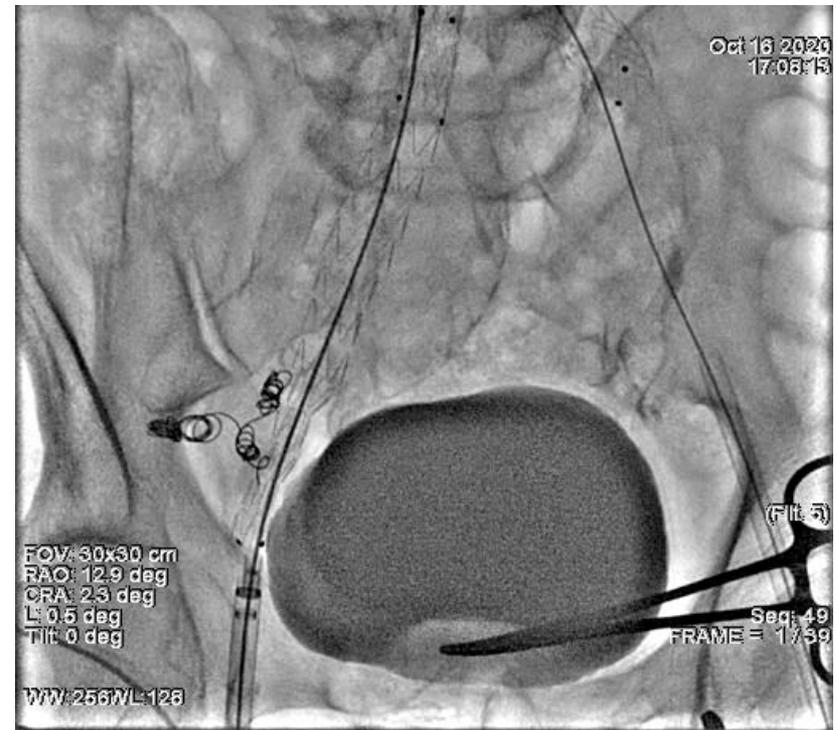


Deployment of Right Iliac Limb

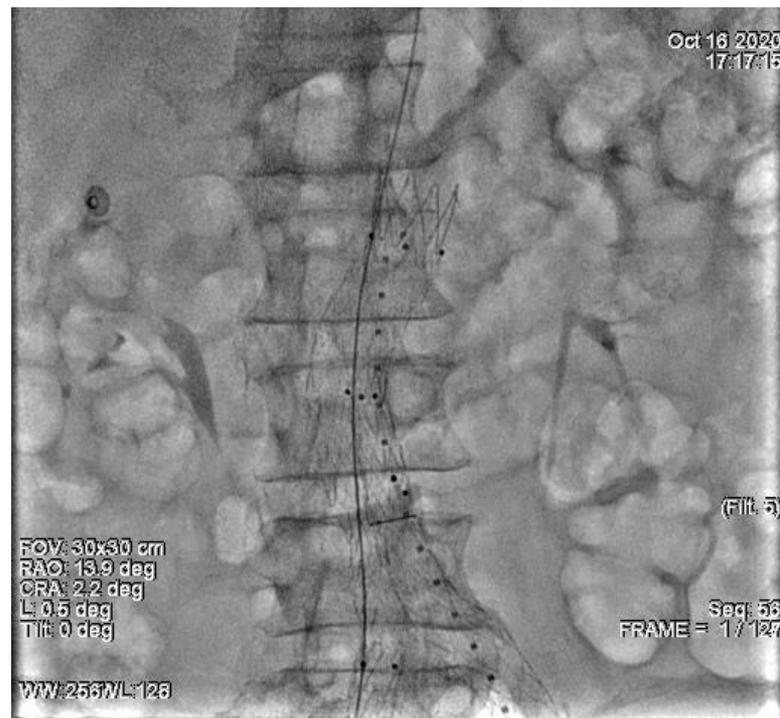
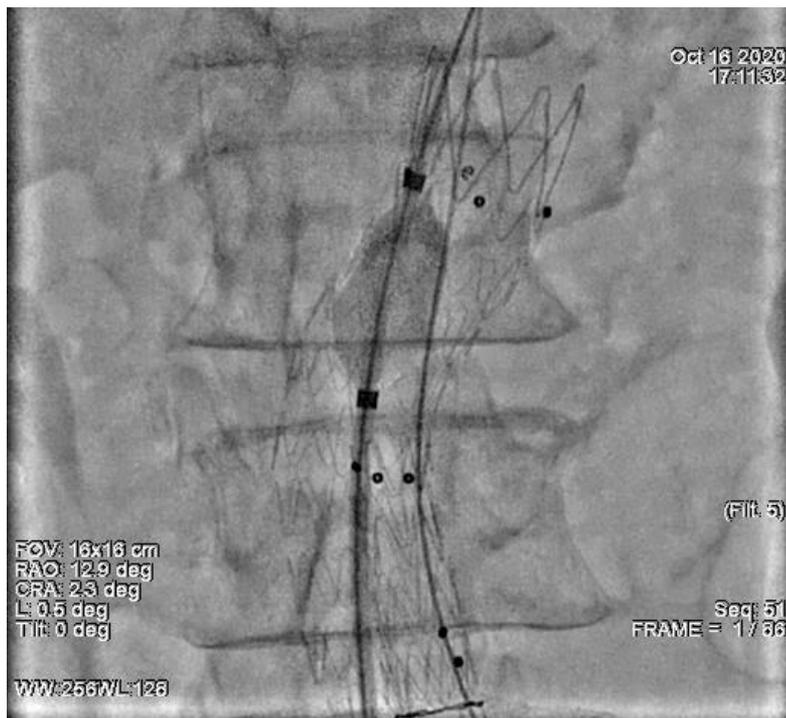
This was followed by deployment of Endurant II stent graft 16x20x124 mm on the left side up to the common iliac artery



Right external iliac stent graft extended with Endurant II stent graft
(16x13x156 mm)



Optimisation with Reliant Balloon



- Endovascular repair in giant aneurysms with tortuous arteries is technically very challenging.
- In this case, Endovascular repair of a giant right common iliac artery aneurysm with a severely tortuous vascular access, in the form of hairpin tortuosities of 180 degrees, was successfully done.
- Coil embolisation of the right internal iliac artery also done.