



Malaysia Responds : How Would I Treat the Case in Malaysia

Dr. Amin Ariff Nuruddin National Heart Institute Kuala Lumpur, Malaysia



Aortic Dissection with Flow Cessation to the Entire Lower Limb Circulation: How Can we Fix it?



Case Illustration

- 37 Year-old Police Officer
- Uncontrolled Hypertension, Smoker
- Back Pain, immediately followed by bilateral leg pain and numbness
- Referred to our Hospital

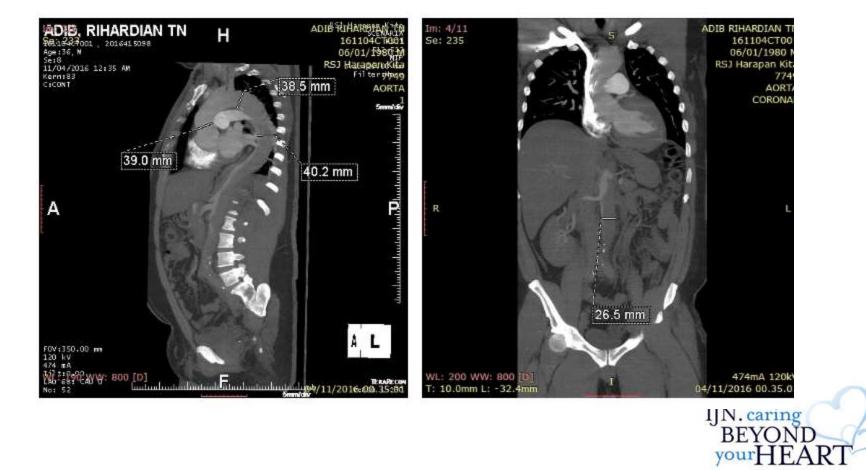


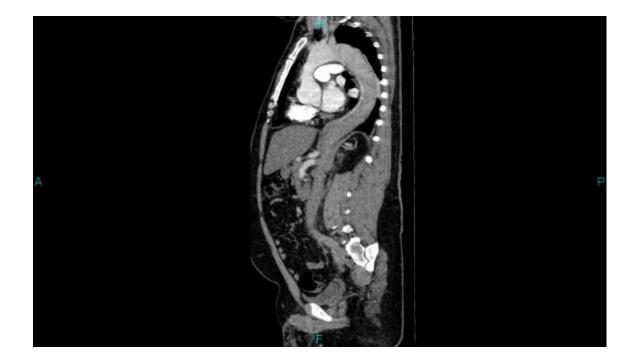
On Admission

- Back pain and Leg pain persisted
- Femoral /popliteal pulse (-/-)
- D-dimer 3259 ng/mL, Ur: 36 mg/dL, Cr 1.13 mg/dL
- Dupplex Ultrasound:
 - No Iliac/femoral arterial flow
- Immediate CT

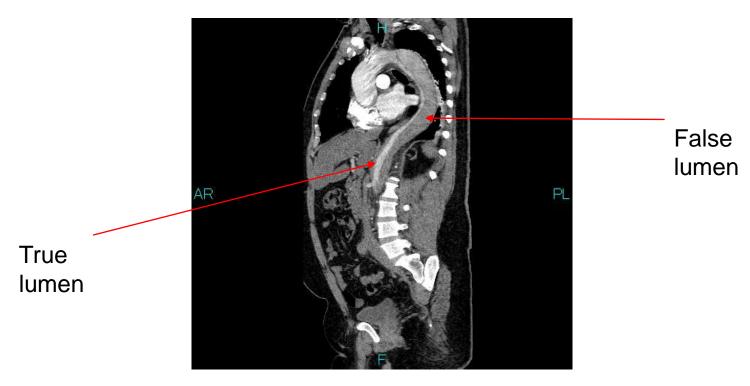


Aortic CT Angiography



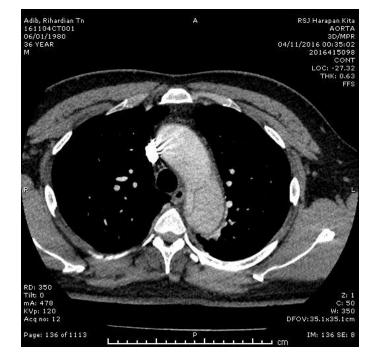






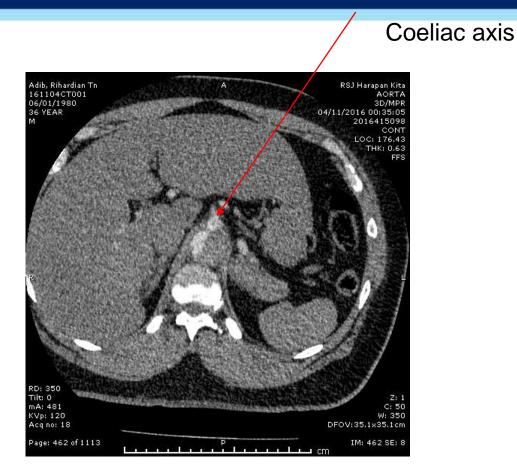


Entry point



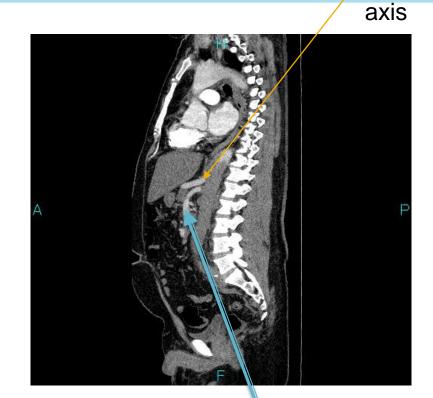


Celiac axis



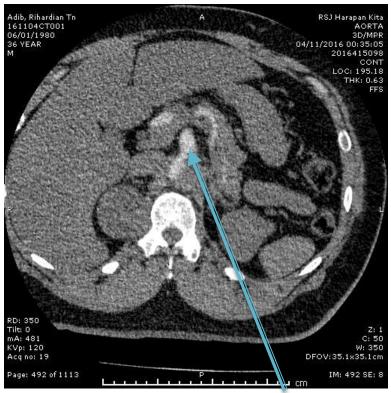






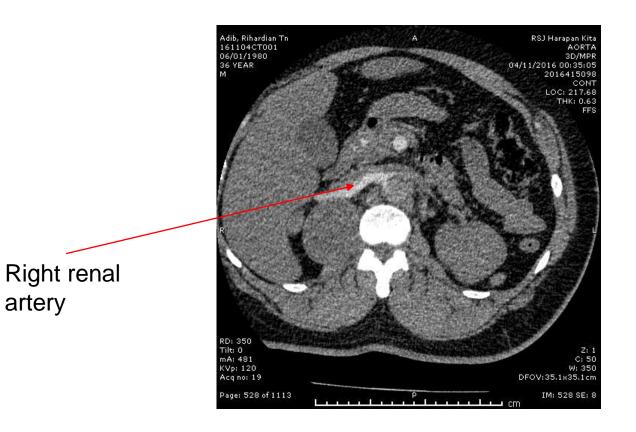


Coeliac



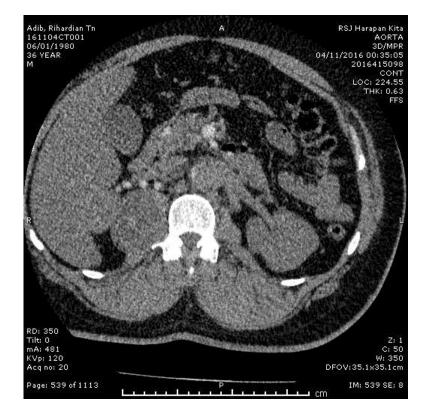
SMA

RRA

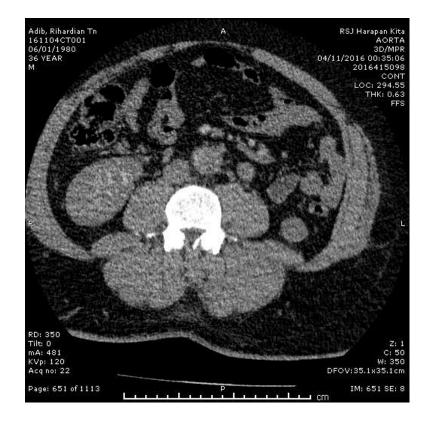




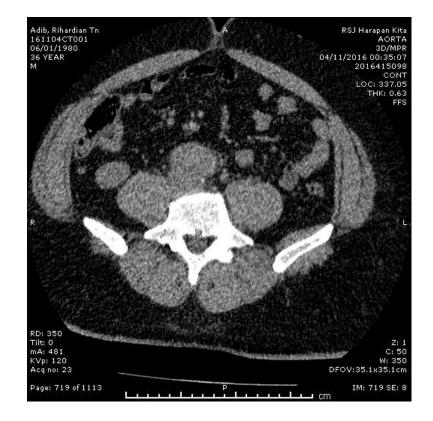




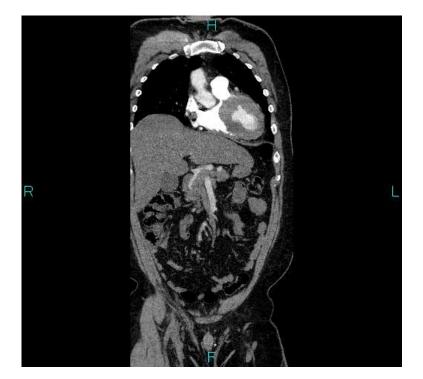




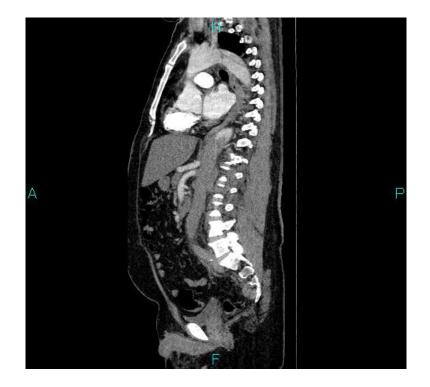


















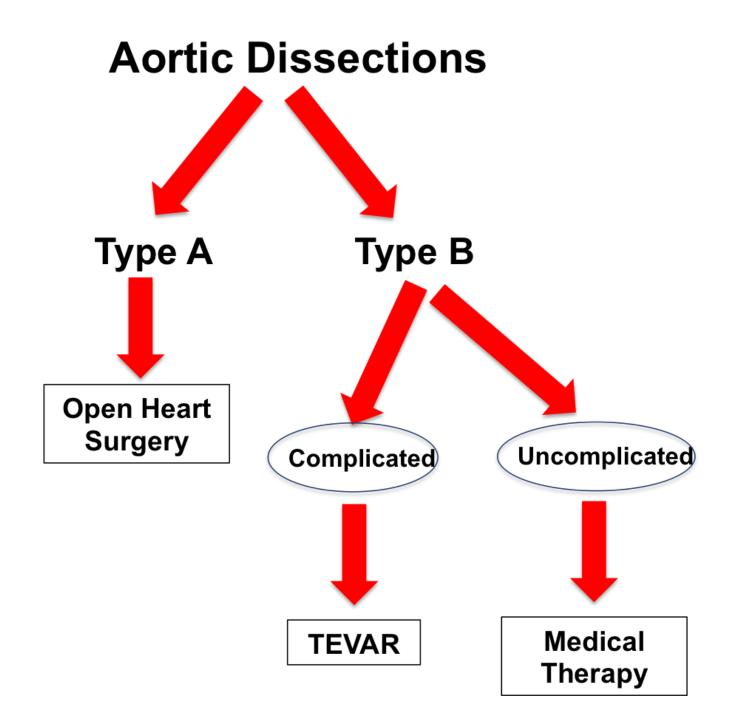
"Higher d-dimer levels correlate with more segments of the aorta involved, with false lumen type dissections, and with higher mortality rates"

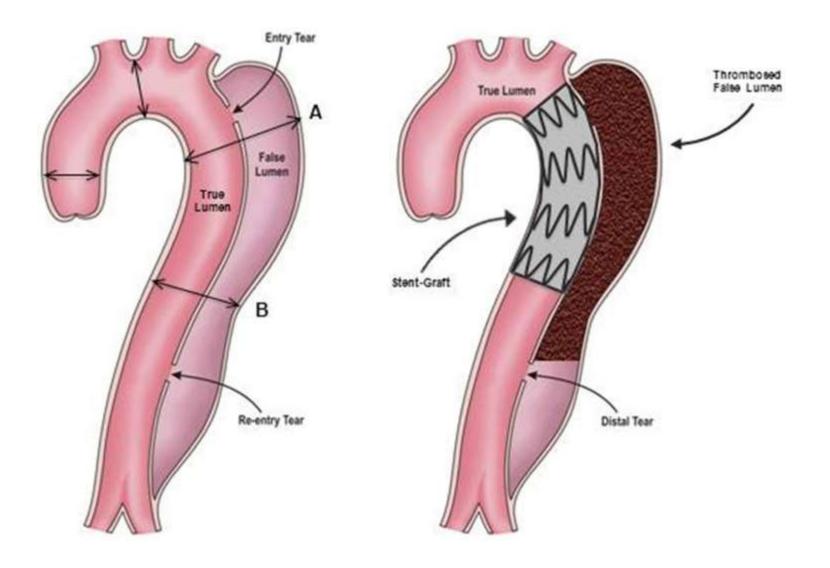


DISCUSSION

- Initial Management
 - Blood Pressure: Systolic BP < 100 mmHg
 - Heart Rate: < 60 beats per minute
 - Pain Management: Morphine







INDICATIONS FOR SURGERY

- Stanford type A (DeBakey type I and II) ascending aortic dissection
- Complicated Stanford type B (DeBakey type III) aortic dissections with clinical or radiological evidence of the following conditions:
 - Propagation (increasing aortic diameter)
 - Increasing size of hematoma
 - Compromise of major branches of the aorta
 - Impending rupture



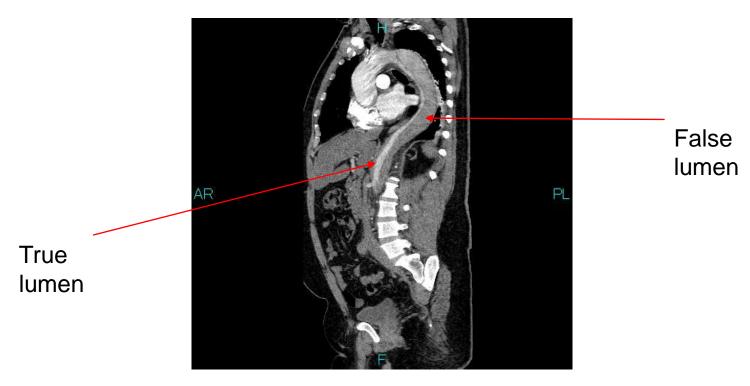
Vascular Access

TEVAR

Percutaneous

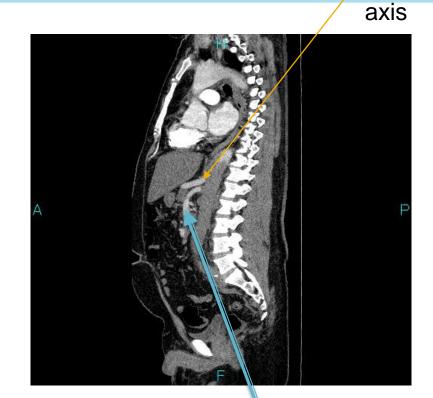
Surgical





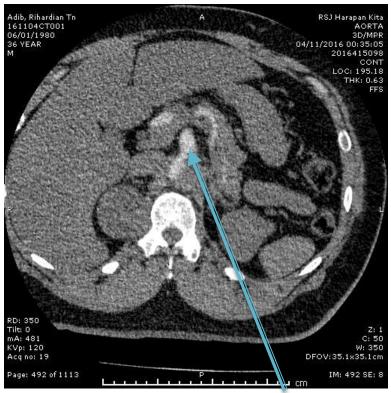








Coeliac



SMA





Long Term Prognosis

- Data from IRAD
 1 in 4 patients with type B dissections died at
 3-year mark, regardless of mode of therapy
- Survival rates
 Medically 77.6%
 Surgically 82.8%
 Endovascular therapy 76.2%



Actuarial Survival for all patients, regardless of medical or surgical therapy:

- ≻ 1 year : 71 %
- > 5 years: 60 %
- ≻ 10 years: 35 %
- ≻ 15 years: 17 %

Independent Predictors:

- Diameter > 4 cm
- Patent false lumen
- Partially thrombosed false lumen



Thank you

Special thanks to

Dato Dr Abdul Samad Sakijan Dr Shaiful Azmi Yahya Miss Norizan Omar

