

## BACKGROUND

30yo G2P0010 BMI17

Hiatus Hernia Repair @ 2yo, Breast Cancer (27yo), MTHFR Heterozygous, NK Cells

**Thoracic Scoliosis** – Cobb 30° no Surgery

**Renal Artery Stenosis** – **Bilateral Autotransplanted Kidneys**

## PROBLEM ONE

14/40 Thoracic back **pain**

17/40 Progressive Lower Limb **weakness** + **Sensory level** to umbilicus

Extensive **Intrathecal AVM** T1 to conus

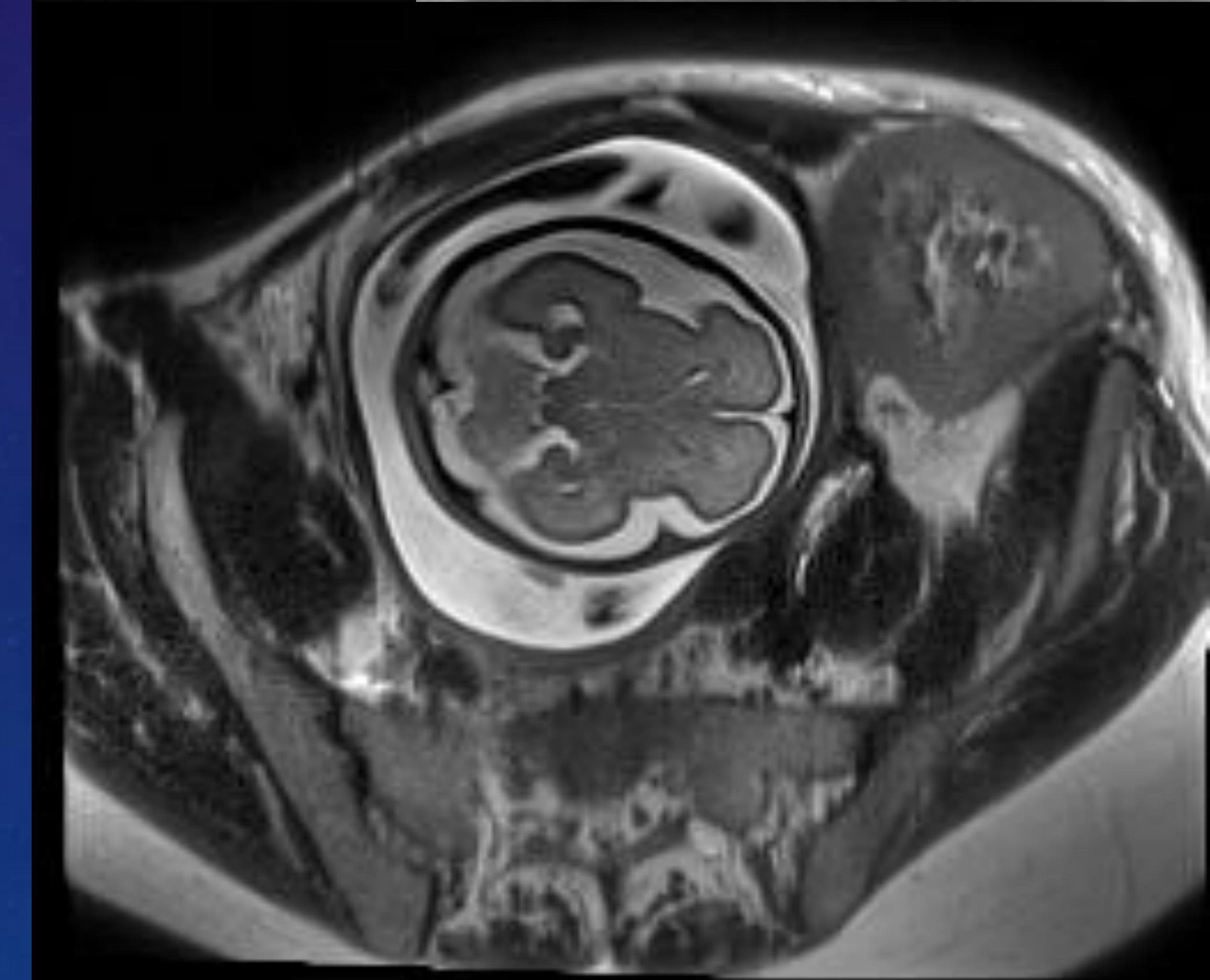
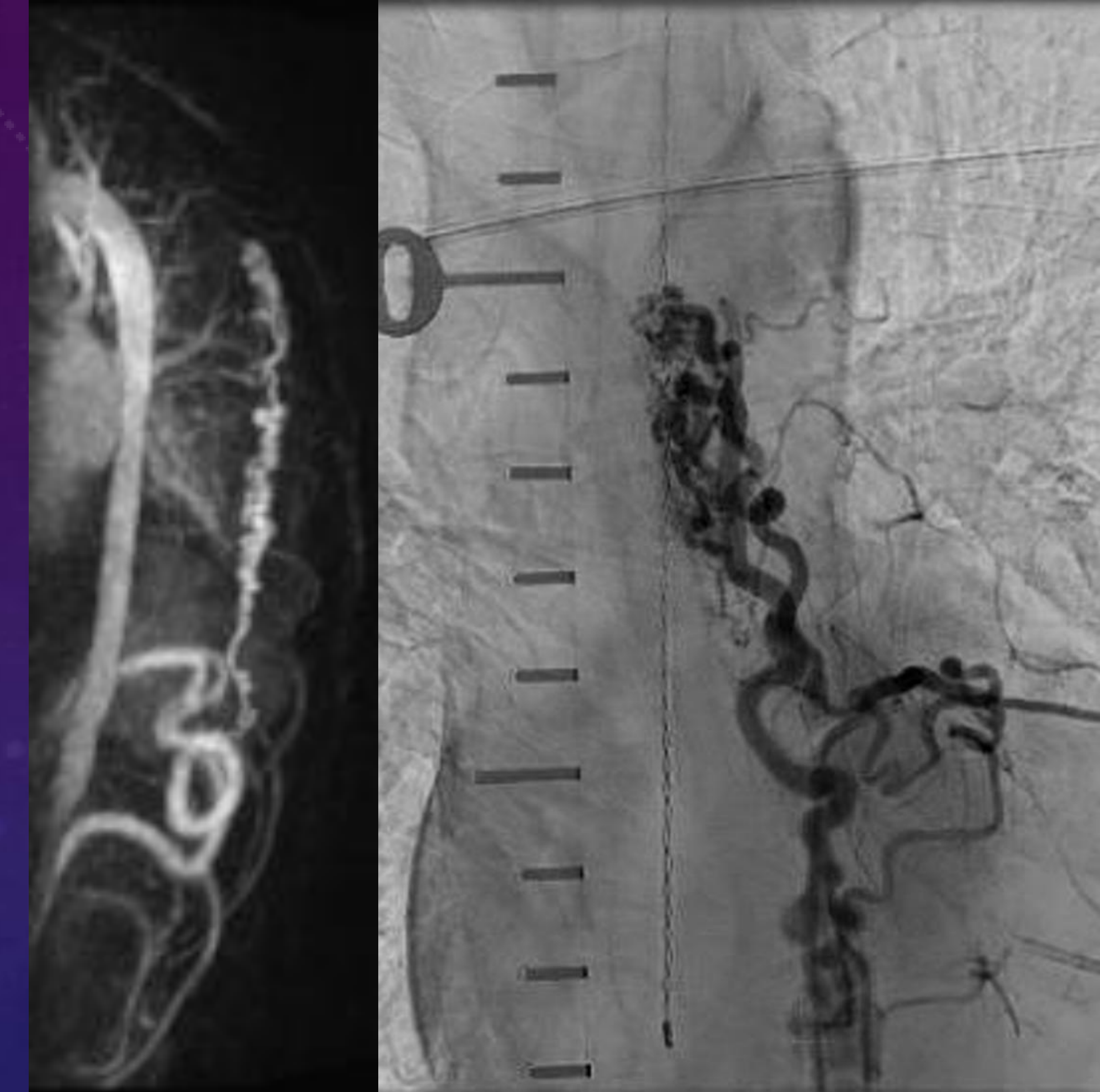
**Intramedullary lipomas** at T3, T7, T11

Cord enhancement at T5-T6

## PROBLEM TWO

**Kidneys and Gravid Uterus**

Hypertension and Renal Function



## MANAGEMENT AVM

Emergency Surgery

5mGy DSA – 4 hours

Prone - **Surgical AVM Excision** – 8 hours

T1-T12 Laminectomy. CSF Leak and Infection

Rehabilitation post discharge

## MANAGEMENT AUTOTRANSPLANTED KIDNEYS

**Renal Pregnancy Care Team** throughout pregnancy

Creatinine and BP Monitoring

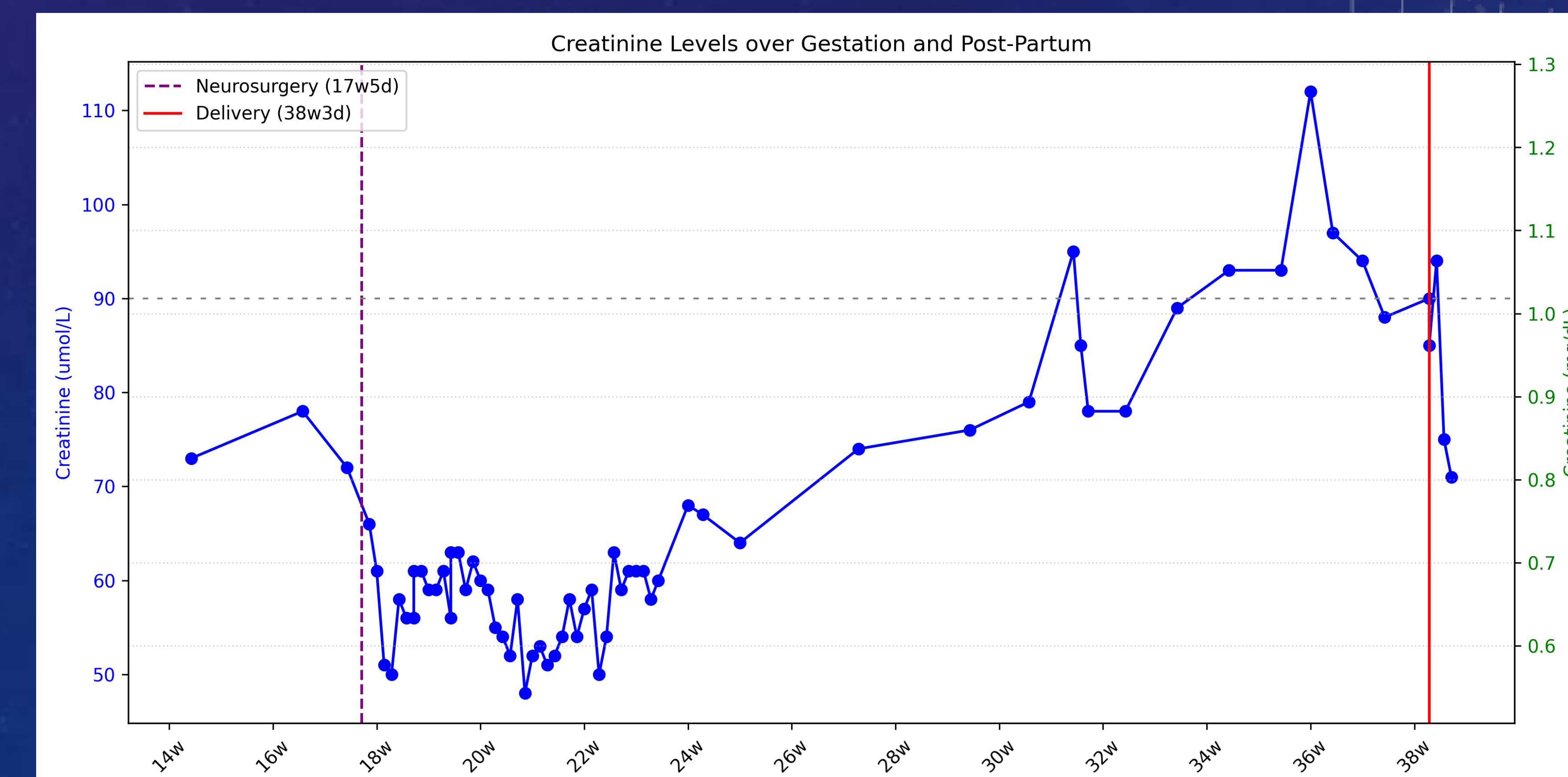
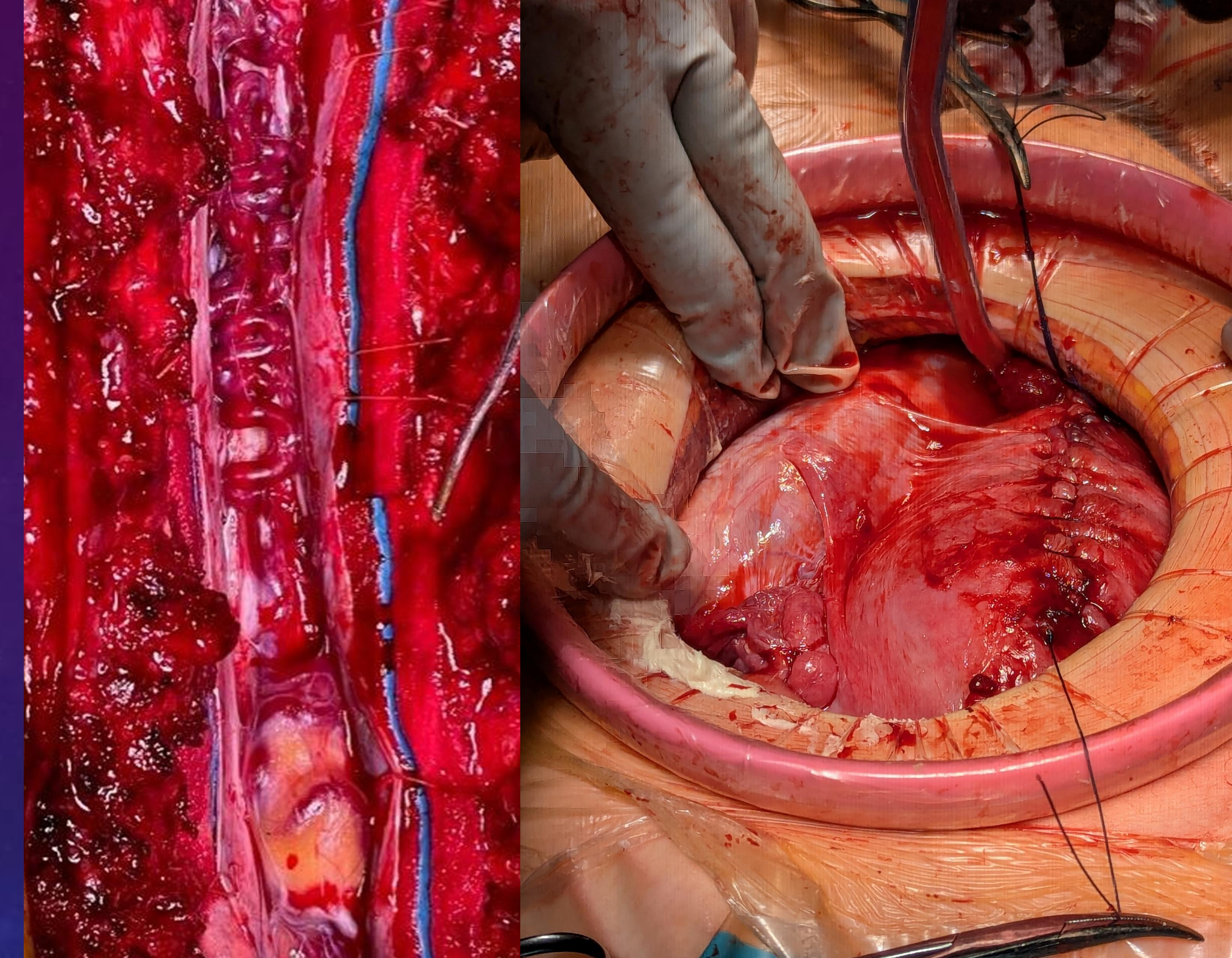
Escalating Antihypertensive Therapy

37+5 planned delivery - GA LSCS – A-line

Obstetrics and Transplant Surgery Consulted

**Midline incision, Classical Uterine Entry**

**Midline Wound Catheters + PCA**



**Against All Odds: Successful Pregnancy in a Patient with Autotransplanted Kidneys and Spinal Arteriovenous Malformation**

Dr Alison Williams, Department of Anaesthesia and Perioperative Medicine, Westmead Hospital, Sydney, Australia

# AVM in Pregnancy

Spinal AVM's are rare

**Mass effect of AVM in spine** is more common presentation

Haemodynamic vs Hormonal

Venous hypertension

Delivery alone can lead to resolution of neurology

Spinal vs Intracranial AVM

**Intracranial** AVM's in pregnancy – **haemorrhage more common**

Higher bleeding rates in the **second trimester (4.5%)** and **third trimester (2.9%)**

The Lancet. Neurology. 2024. Ali M, van Etten ES, Akoudad S, et al.

Prone surgery with Transplanted Kidneys unlikely to cause compromise but should be considered

# Transplanted Kidneys in Pregnancy

Can Renal Transplants be physically compromised?

In allografted kidney transplant recipients 20-48% of patients reported decline in kidney function at delivery compared to pre-pregnancy values

Know the vessel anastomosis, intra vs extra peritoneal

Consider risk of peritoneal entry and uterine incisions

Acute haemorrhage from direct injury or shearing forces has been reported

Multidisciplinary team including transplant surgeons

