

KEY OPINION LEADERS (KOL) FORUM

Case submission

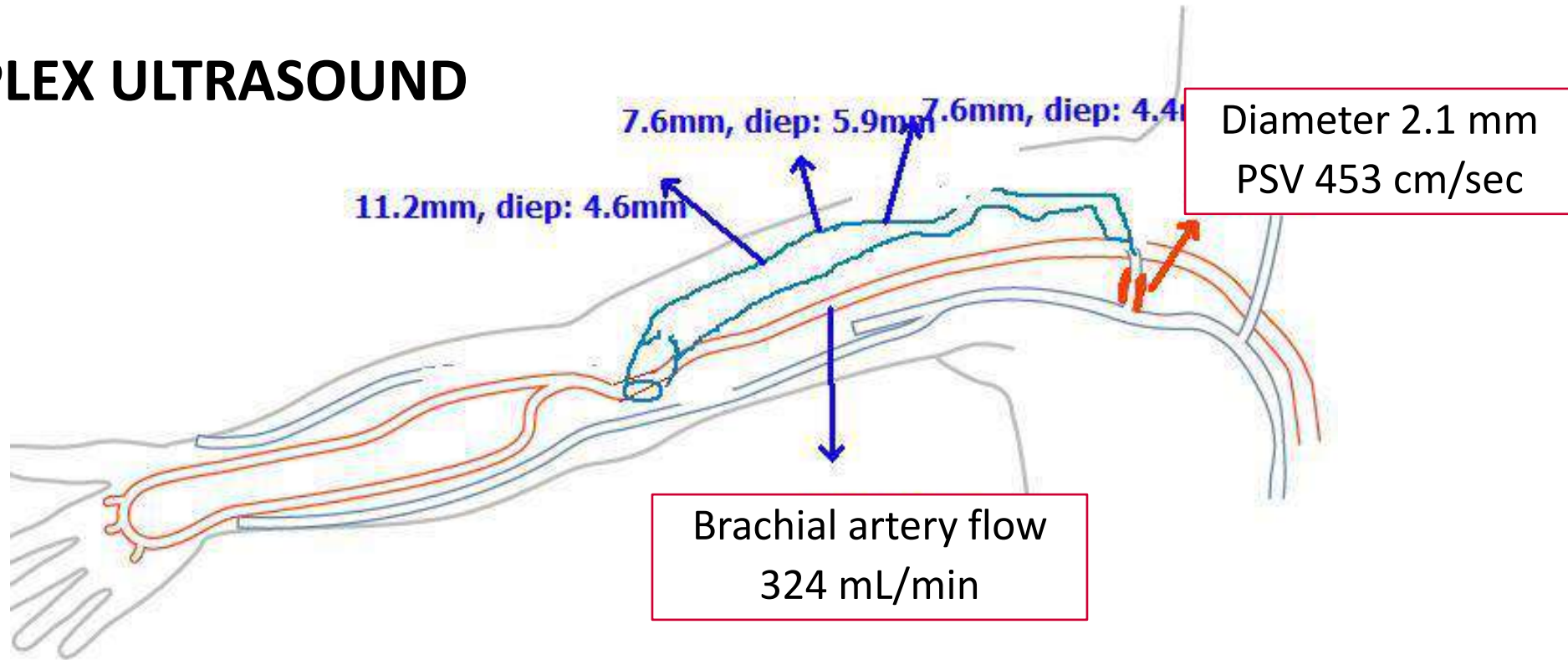
Maarten Snoeijs, MD PhD – 24-11-2023

1. ABOUT THE PATIENT

- 73-year old woman with end-stage renal disease due to diabetic nephropathy
- Medical history: BMI 43 (after gastric sleeve), hypertension, stroke, atrial fibrillation
- 2020 Right brachiocephalic fistula with vein elevation as second stage
- 07-2023 Percutaneous balloon angioplasty of cephalic arch (9mm)
- Hyperpulsatile fistula with discontinuous bruit and low dialysis efficiency (Kt/V 0.85)

Do we need more information before deciding on diagnosis and treatment?

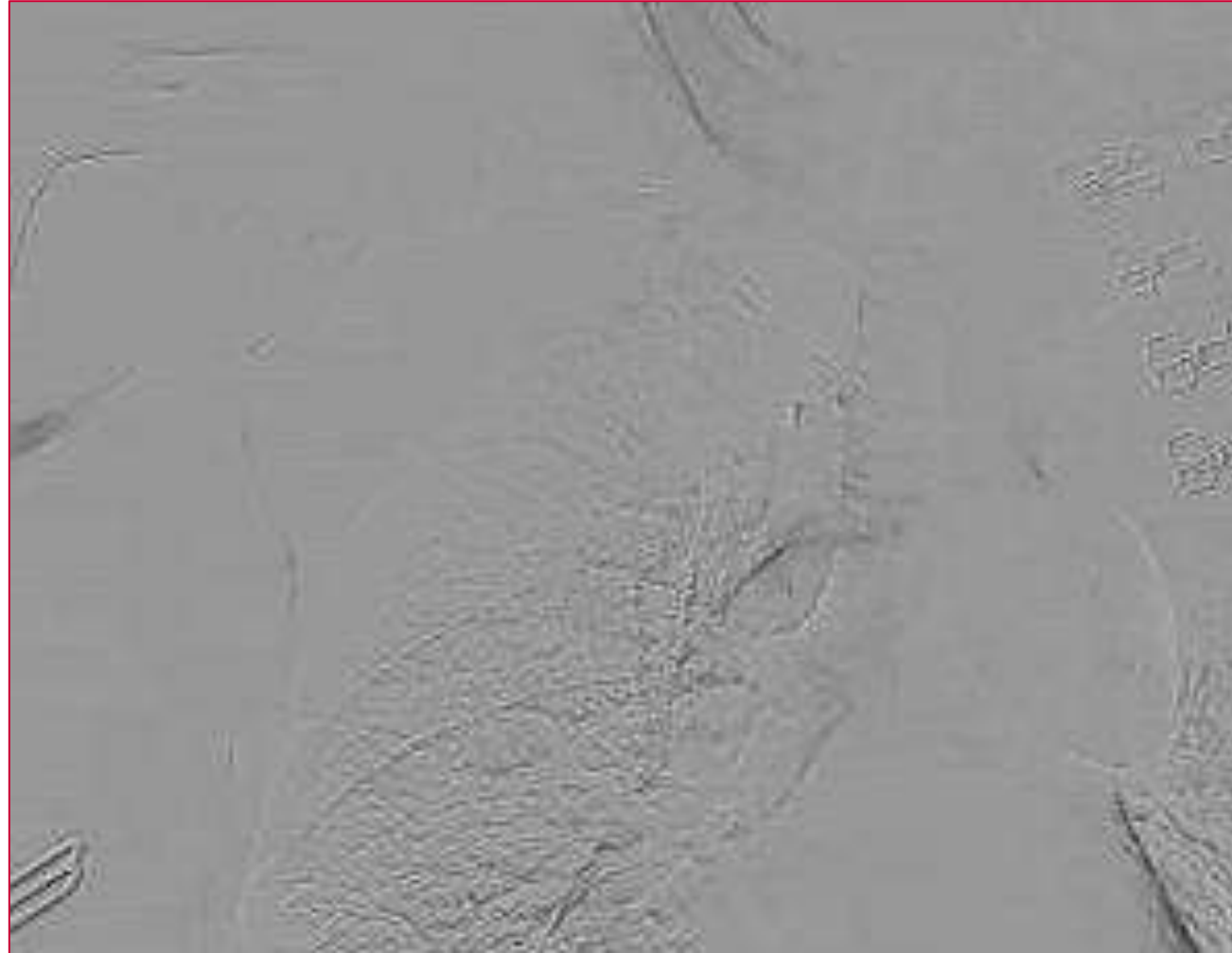
DUPLEX ULTRASOUND



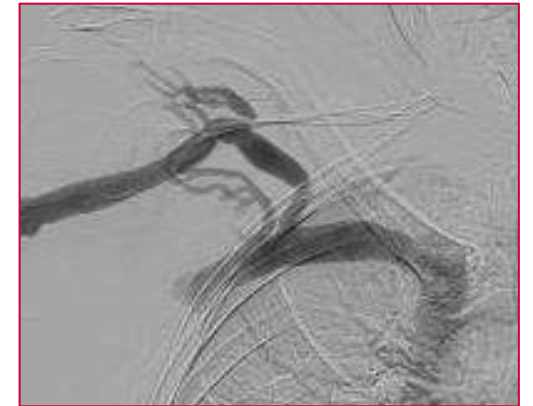
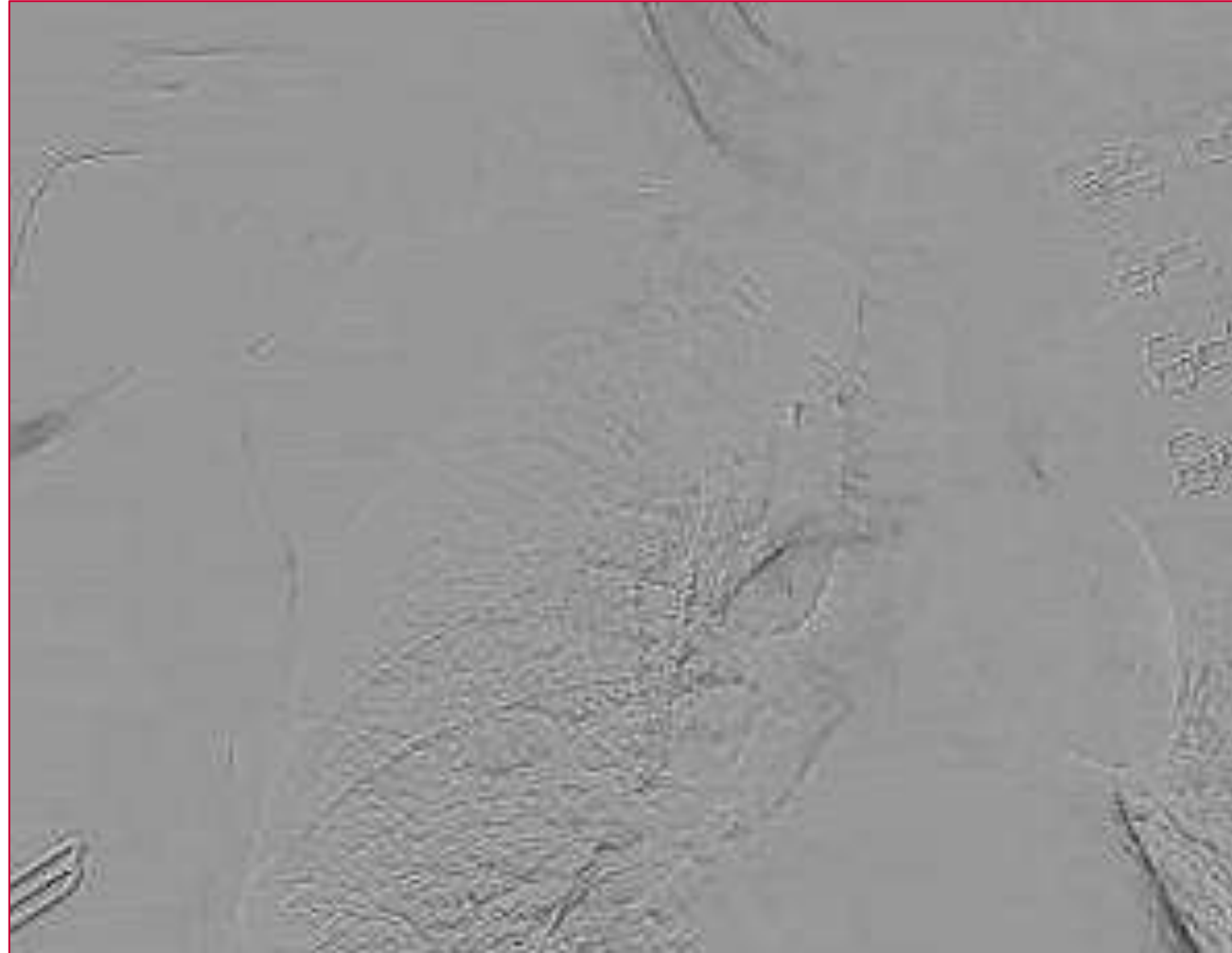
Vascular access flow dysfunction due to cephalic arch stenosis

4. DISCUSSION

What treatment options are available for this patient?

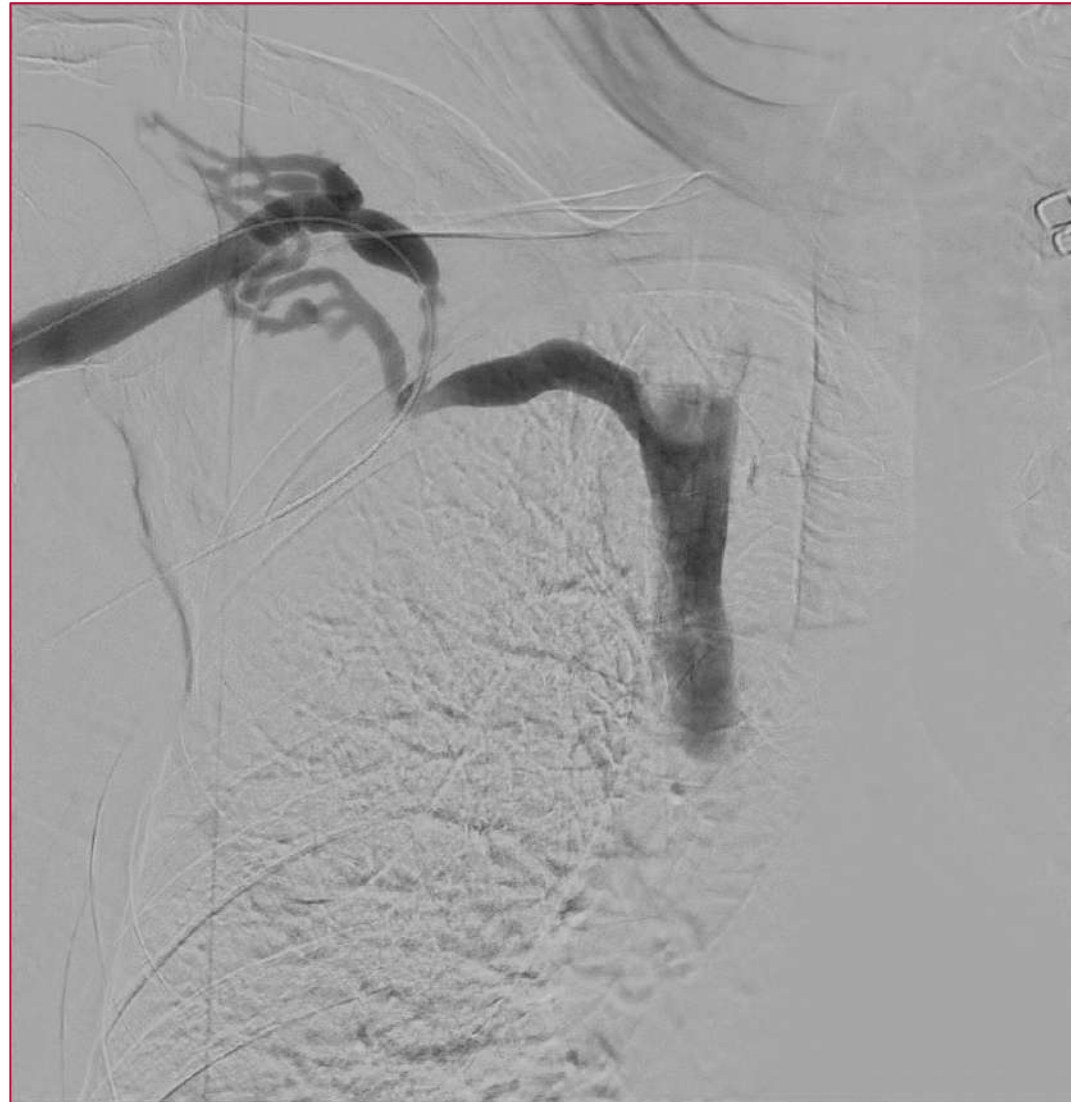


4. TREATMENT



**PREVIOUS
INTERVENTION**

RECANALISATION

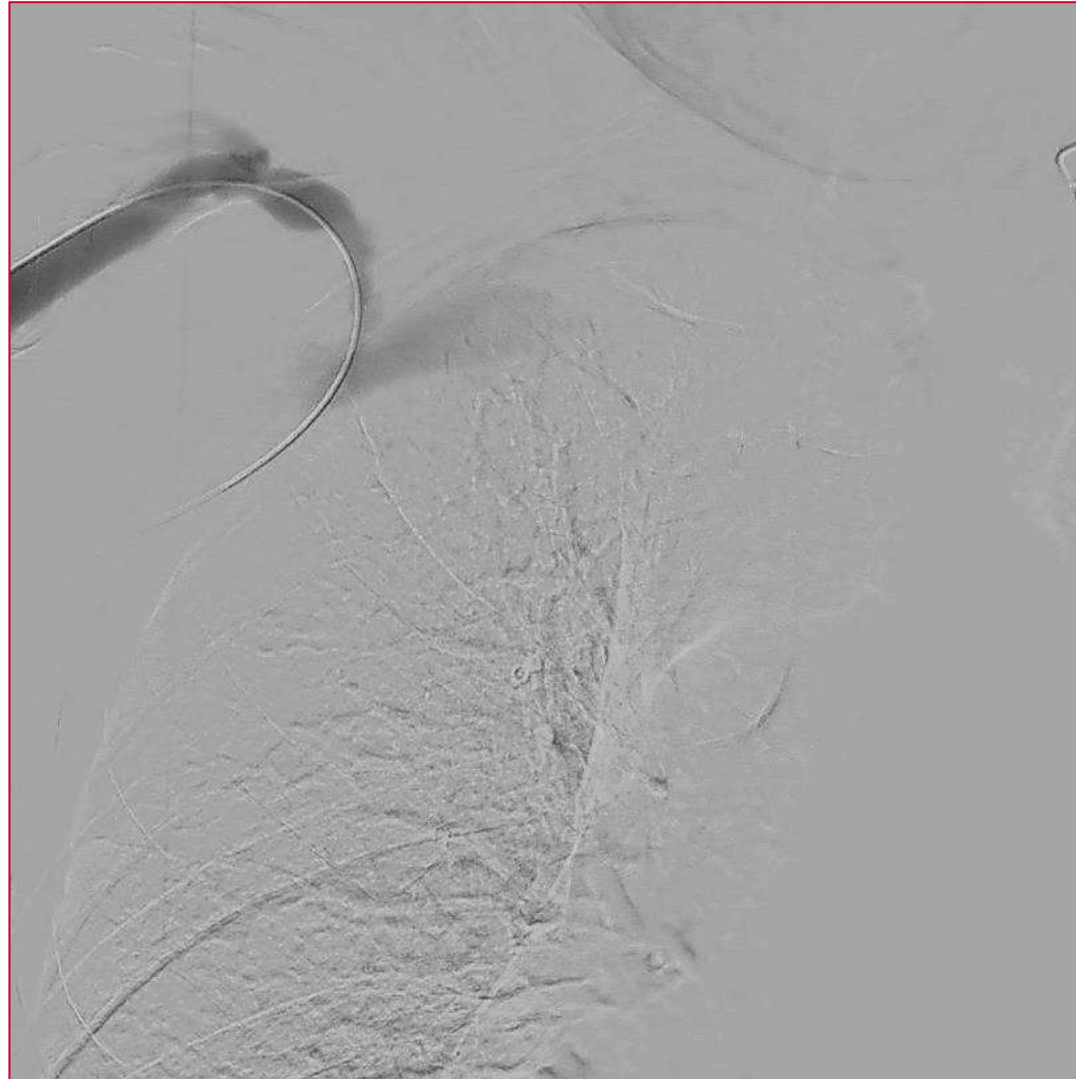


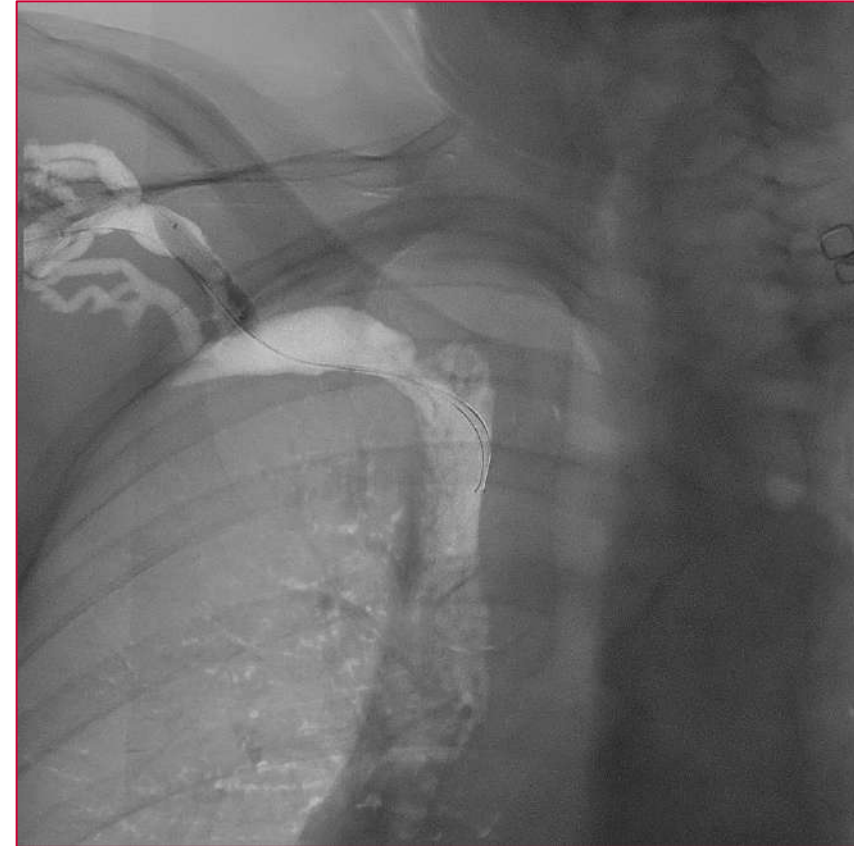
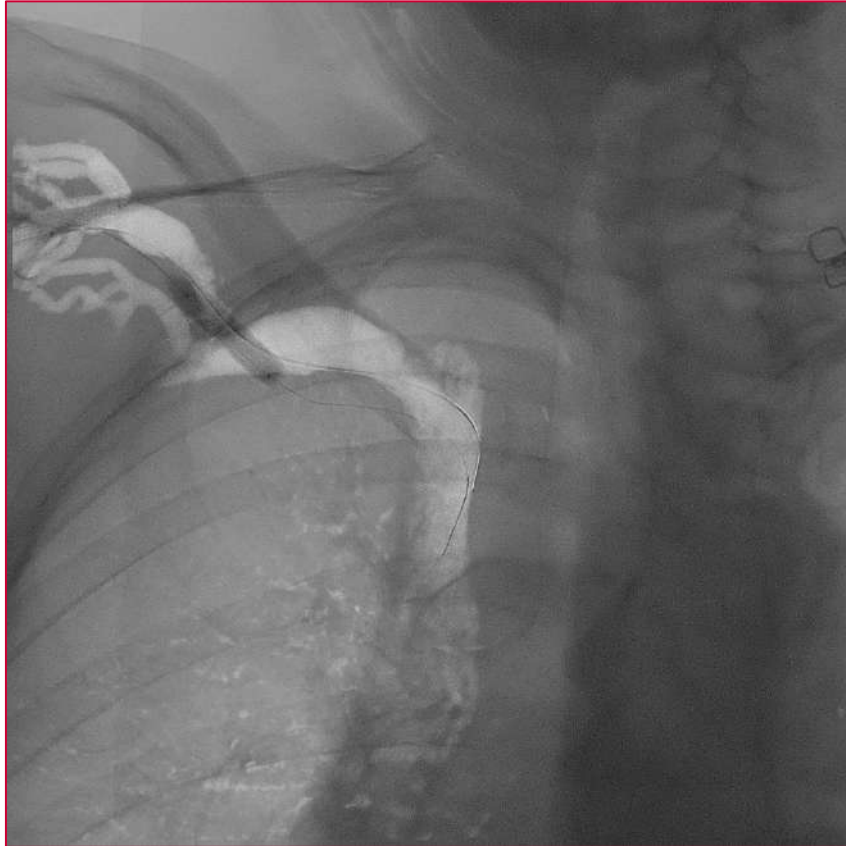
**6 MM
STANDARD
BALLOON**



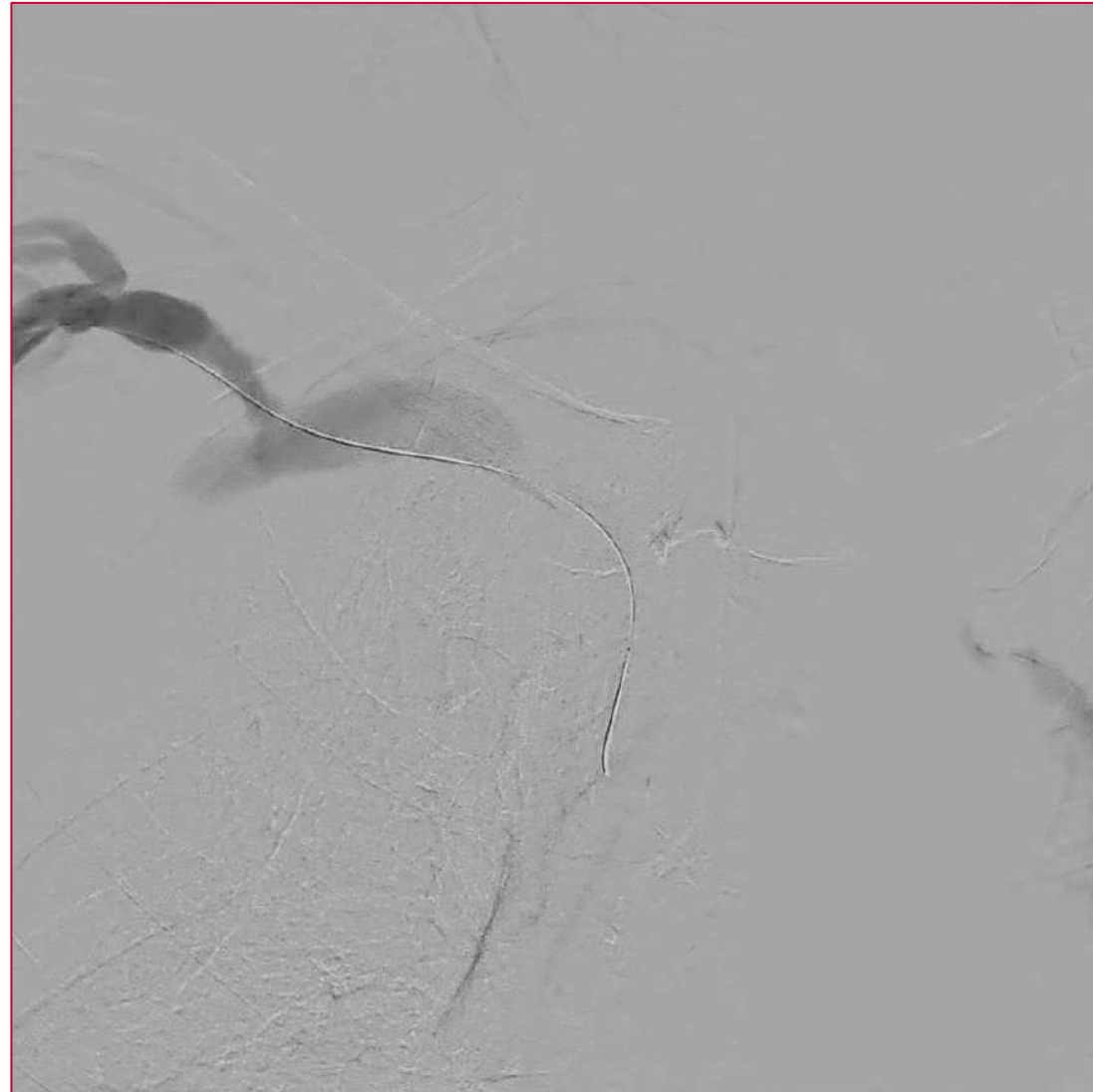
**6 MM
HIGH PRESSURE
BALLOON**



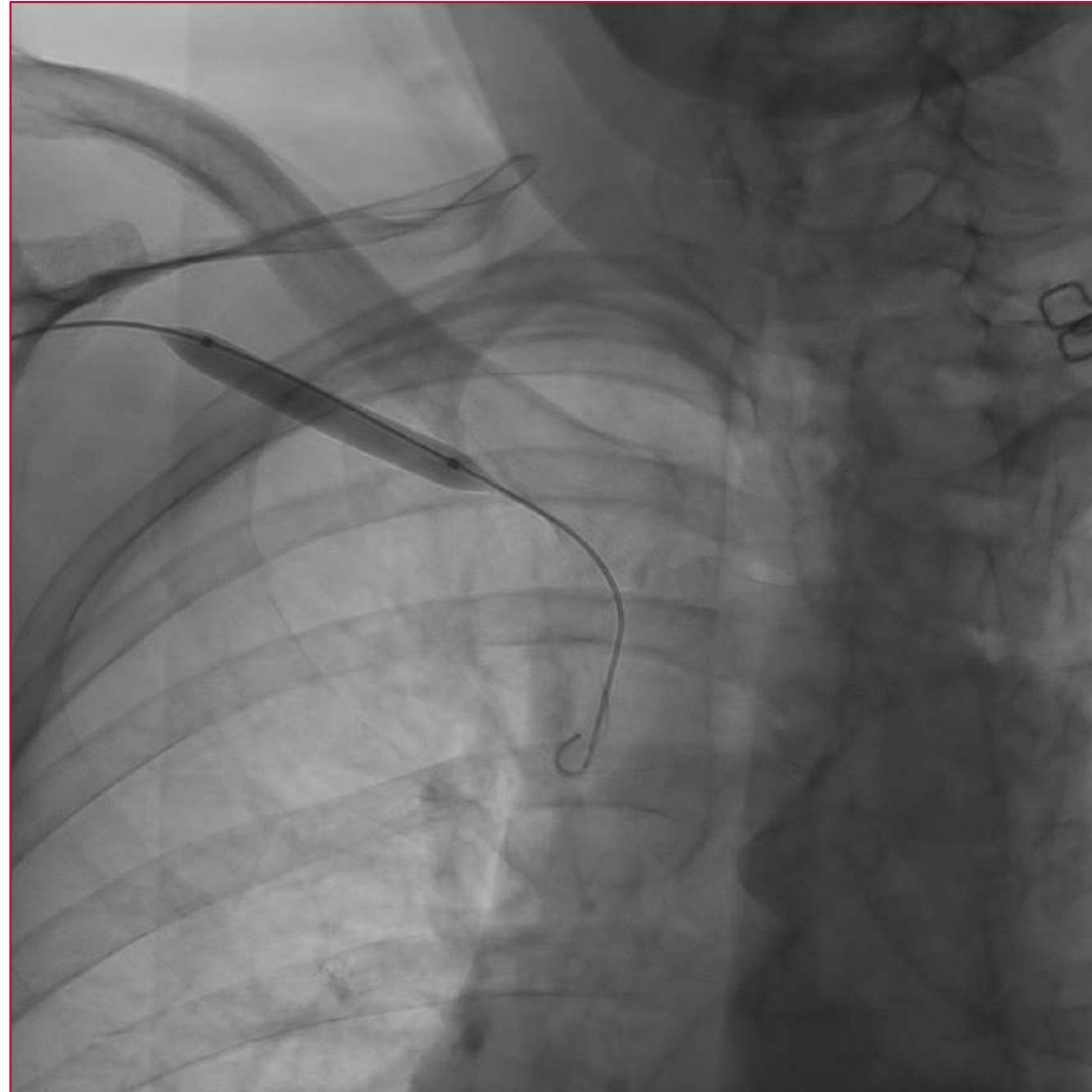


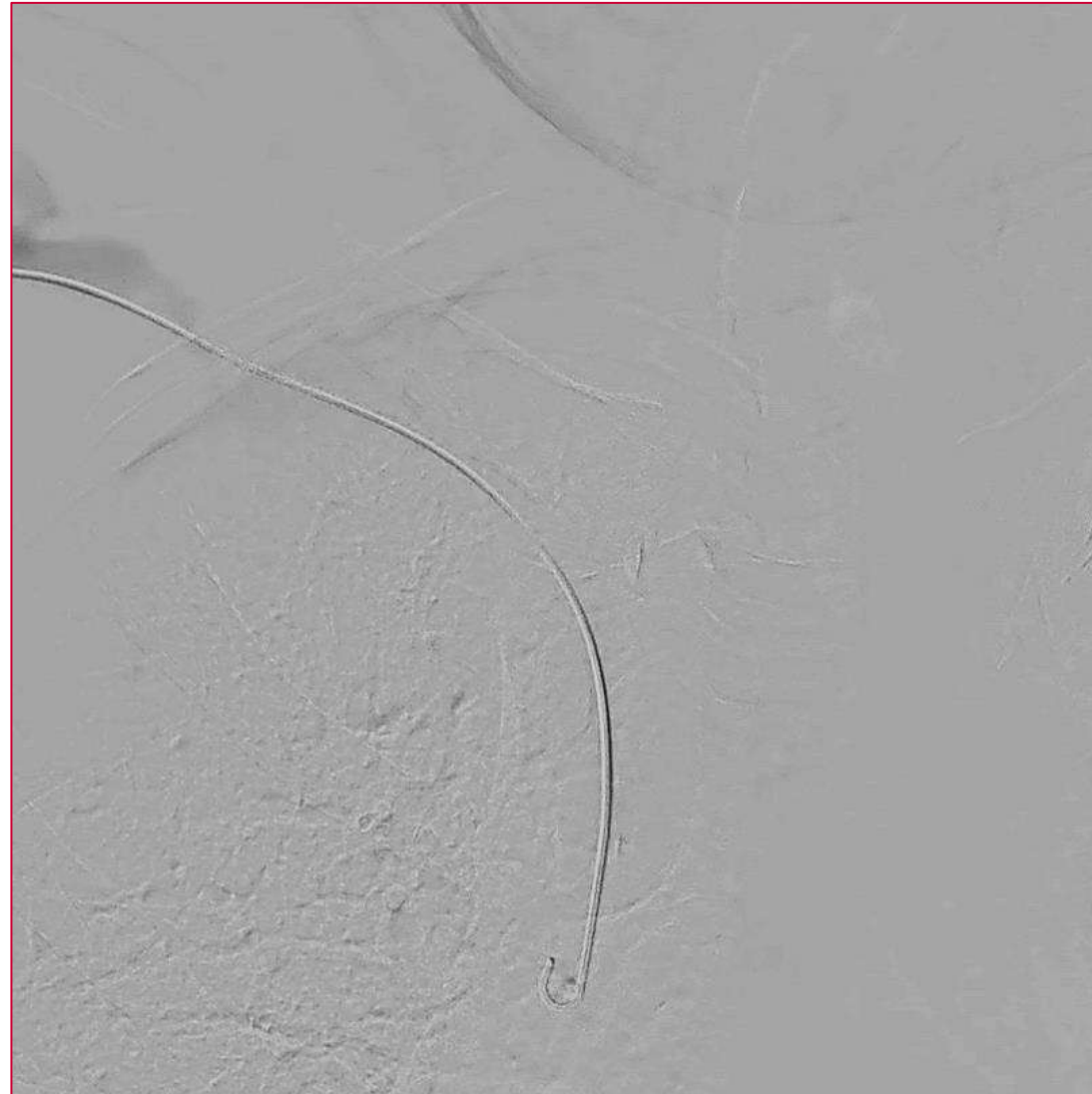


6 MM CUTTING BALLOON

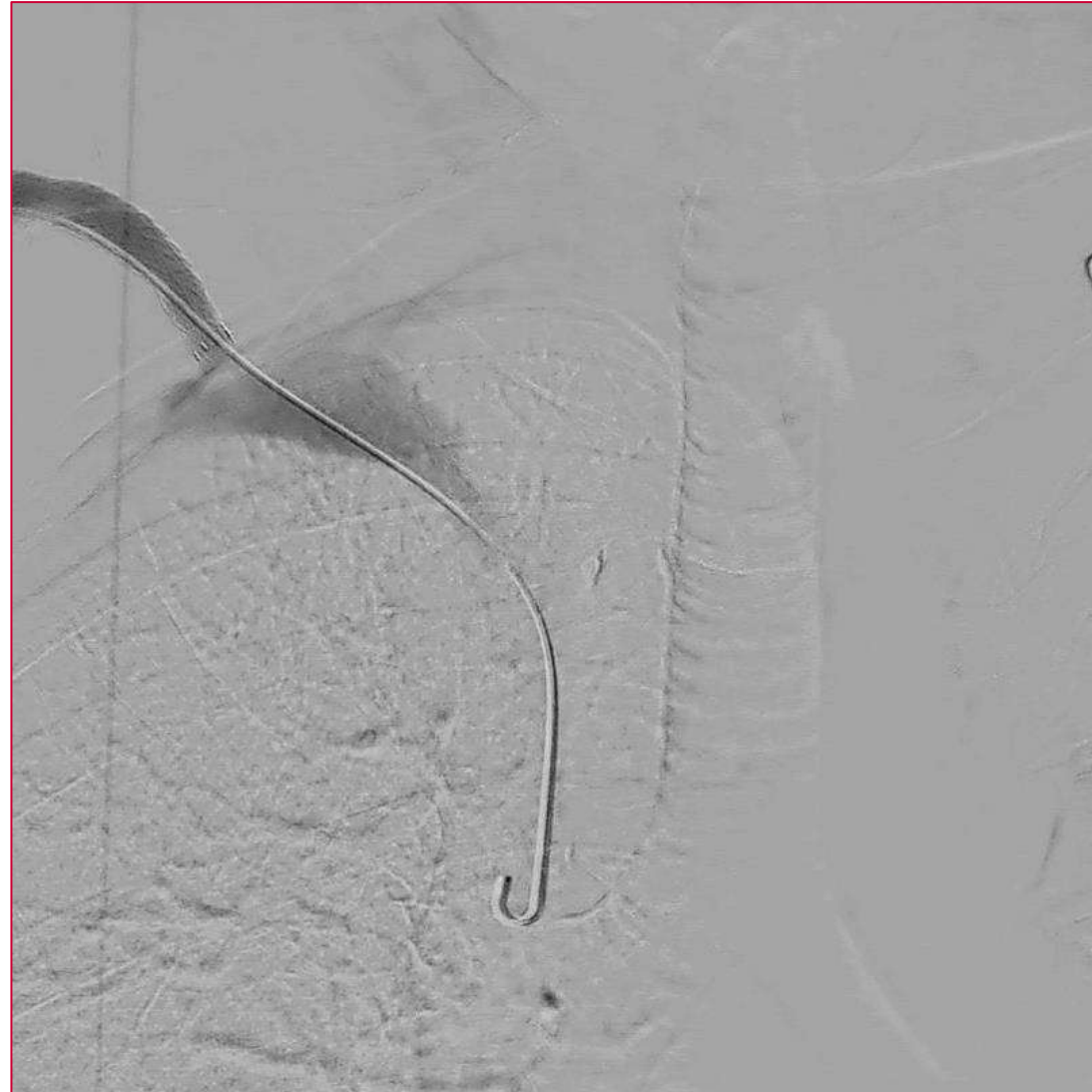


**6 MM
HIGH PRESSURE
BALLOON**





**7 x 50 MM
COVERED STENT**



**7 x 50 MM
COVERED STENT
EXTENSION**





ARM ADDUCTED



ARM ABDUCTED

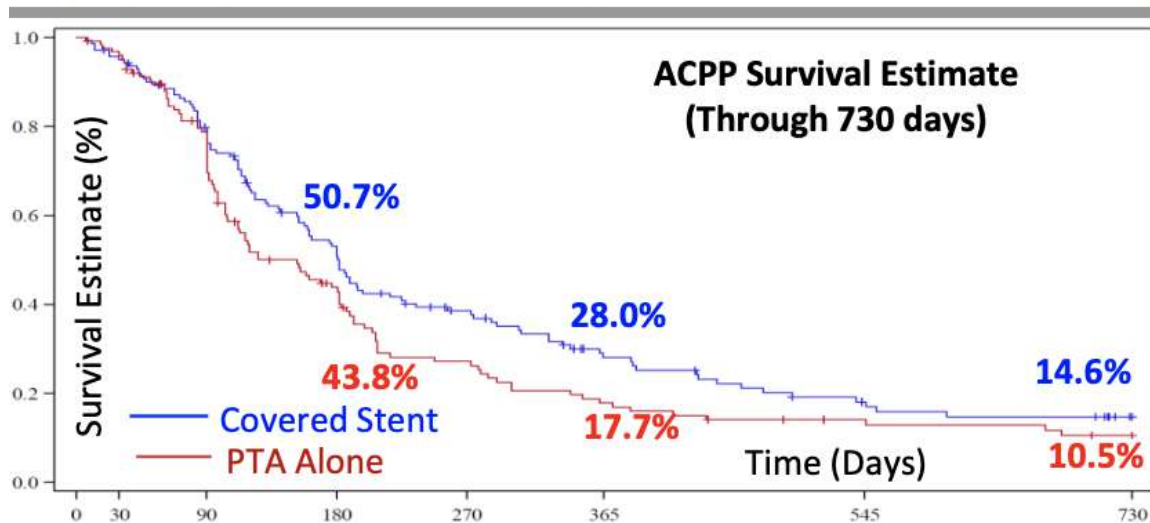
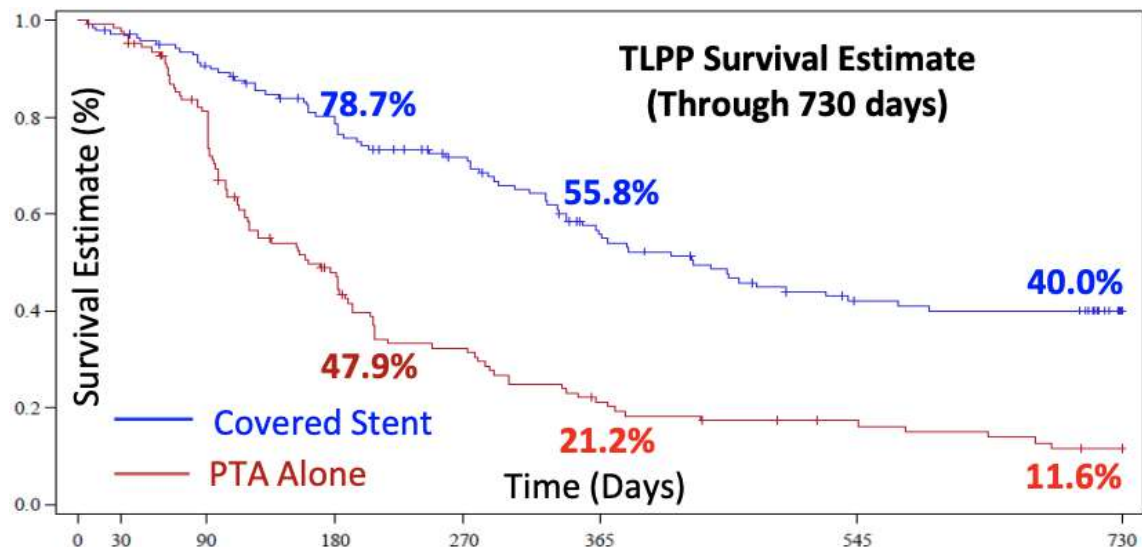
5. FOLLOW-UP

7. CONCLUSIONS & QUESTIONS

- Ensure full effacement of balloon using high pressure and cutting balloons
- Liberal use of covered stents to improve target lesion patency
 - Lateral stent edge: check for kinking with adduction of the arm
 - Medial stent edge: check for protrusion into subclavian vein

7. CONCLUSIONS & QUESTIONS

AVENEW RCT (N=280)



7. CONCLUSIONS & QUESTIONS

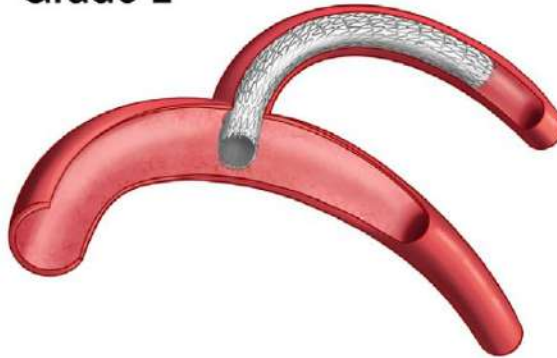
- Ensure full effacement of balloon using high pressure and cutting balloons
- Liberal use of covered stents to improve target lesion patency
 - Lateral stent edge: check for kinking with adduction of the arm
 - Medial stent edge: check for protrusion into subclavian vein

7. CONCLUSIONS & QUESTIONS

Grade 0

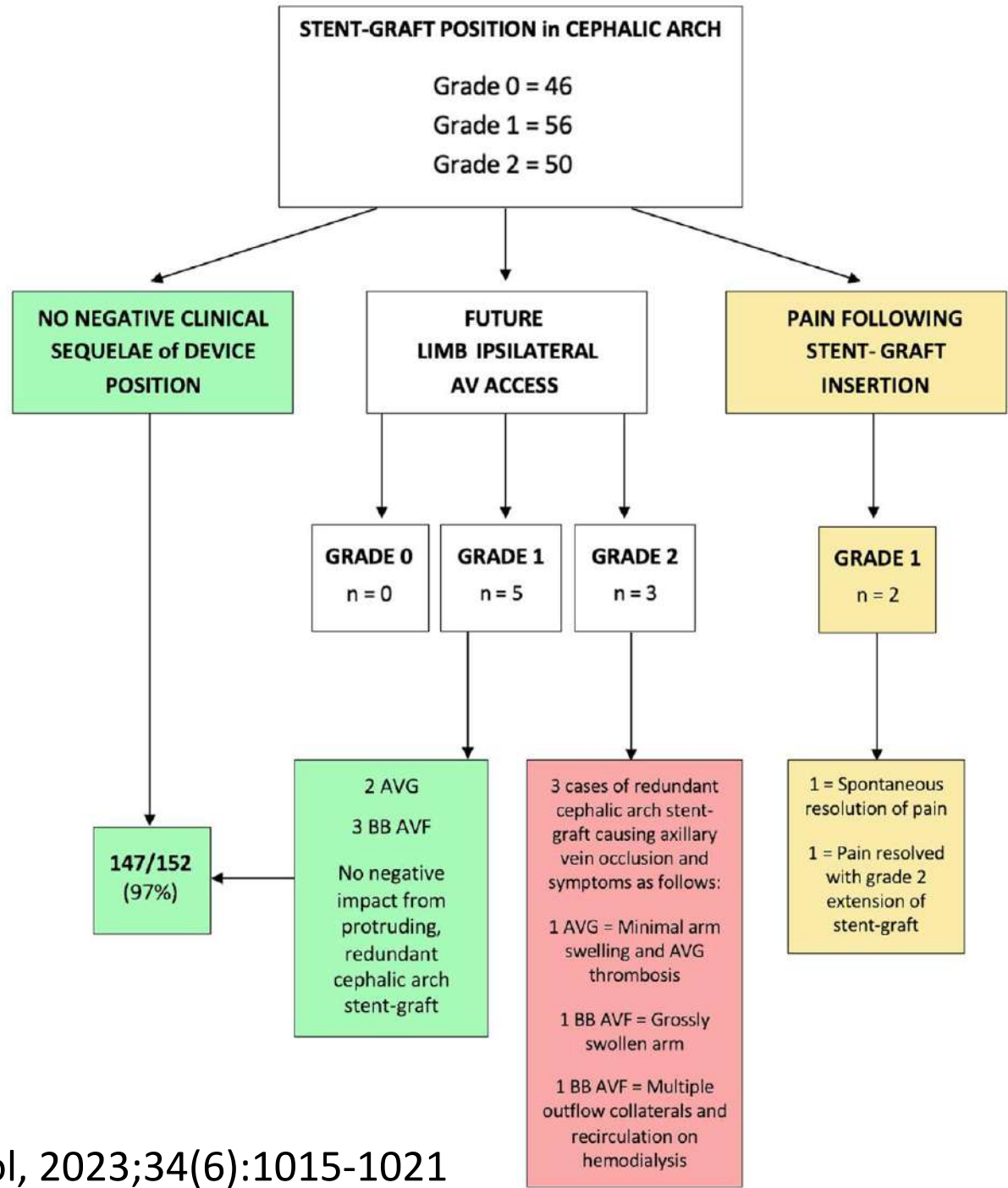


Grade 1



Grade 2





7. CONCLUSIONS & QUESTIONS

- Ensure full effacement of balloon using high pressure and cutting balloons
- Liberal use of covered stents to improve target lesion patency
 - Lateral stent edge: check for kinking with adduction of the arm
 - Medial stent edge: check for protrusion into subclavian vein