PERCUTANEOUS CLOSURE OF RUPTURED SINUS OF VALSALVA ANEURYSM (SEALING TOO MANY LEAKS)

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Disclosure Statement of Financial Interest

I, (DR TARUN MADAN) DO NOT have a financial interest/arrangement or affiliation with one or more organizations that could be perceived as a real or apparent conflict of interest in the context of the subject of this presentation.
HISTORY

• MALE, 22 Yrs
• RECENT ONSET PRECORDIAL PAIN F/B DYSPNEA, PALPITATION, FATIGABILITY
• HYPERDYNAMIC PRECORDIUM
• WIDE PULSE PRESSURE
• CONTINUOUS MURMUR (LEFT PARASTERNAL AREA)
INVESTIGATIONS

- CXR (CARDIOMEGALY, INCREASED VASCULARITY)
- CBC NORMAL
- NORMAL RENAL FUNCTIONS (UREA, CREAT)
- MILD ALTERATION OF LIVER FUNCTIONS
- COAGULATION PROFILE (WNL)
ECHOCARDIOGRAPHY

- RUPTURED SINUS OF VALSALVA (RCS) TO RVOT, RV INFLOW (MULTIPLE LEAKS)
- DILATED RIGHT VENTRICLE
- MODERATE PAH
- INCREASED Qp/Qs
- No AORTIC REGURGITATION, NO VSD
- NO EFFUSION
- GOOD LV FUNCTION, NO MR

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• RELATIVES REFUSED FOR SURGICAL CORRECTION
• AFTER INFORMED CONSENT PERCUTANEOUS TREATMENT WAS PLANNED (DEVICE CLOSURE)
• RIGHT FEMORAL ARTERY AND VENOUS ACCESS, 6F
• LEFT FEMORAL ARTERY ACCESS, 6F
RIGHT CORONARY SINUS RUPTURE (MULTIPLE EXITS)
DEFECT CROSSED AND WIRE SNARED

- TERUMO 0.035” J TIP WIRE
- GOOSE NECK SNARE
- JUDKIN RT. 6F CATHETER
ADVANCING THE DELIVERY SHEATH (COOK)
1st DEVICE (14/12 mm DUCT OCCLUDER)
LATERAL PROJECTION
RELEASING THE DEVICE
OTHER RUPTURE POINTS DEFINED
DEFECT CROSSED (2\textsuperscript{nd} LEAK)

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DEPLOYMENT OF DEVICE
2nd DEVICE (16/14 mm DUCT OCCLUDER)
• PATIENT IMPROVED MARKEDLY AND WAS DISCHARGED
• SYMPTOMS OF HEART FAILURE DISAPPEARED
• REMAINING LEAK WAS CLOSED IN A STAGED PROCEDURE
STAGED CLOSURE OF THIRD LEAK AFTER FEW WEEKS

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3rd LEAK DEFINED & ANGIO SHOWING WELL PLACED EARLIER DEVICES
DEFECT CROSSED & WIRE SNARED
ADVANCING DELIVERY SHEATH & DEPLOYMENT OF 3rd DEVICE
3\textsuperscript{rd} DEVICE (12/10 mm DUCT OCCLUDER)
F/UP CT ANGIO AFTER 7 MTHS
• PT DOING WELL
• NO SYMPTOMS
• GOOD FUNCTIONAL CAPACITY