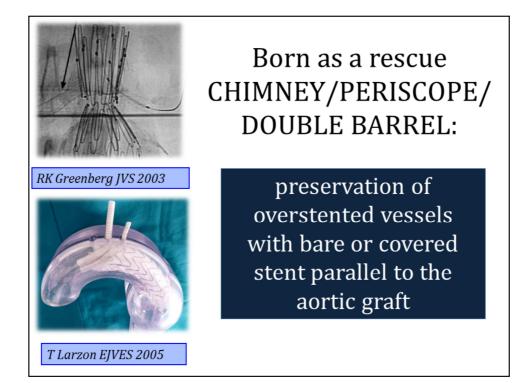
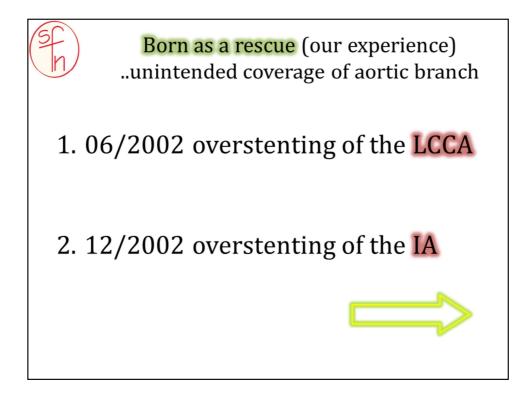




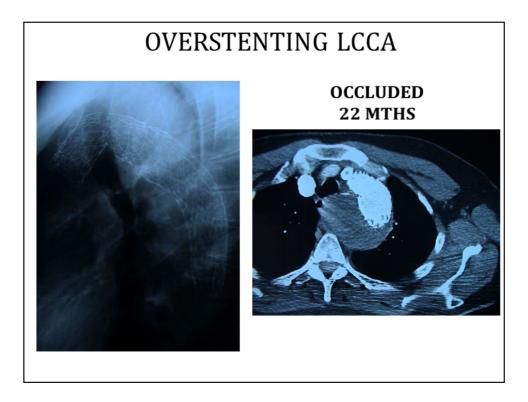
RECENTLY WE PUBLISHED OUR EXPERIENCE ON CHIMNEY TECHINQUE THAT I CONSIDER THE QUEEN OF OTS SOLUTIONS



BECAUSE IT WAS FIRSTLY DESCRIBED AS A RESCUE FOR UNVULONTARY COVERAGE OF SUPRAORTIC VESSELS

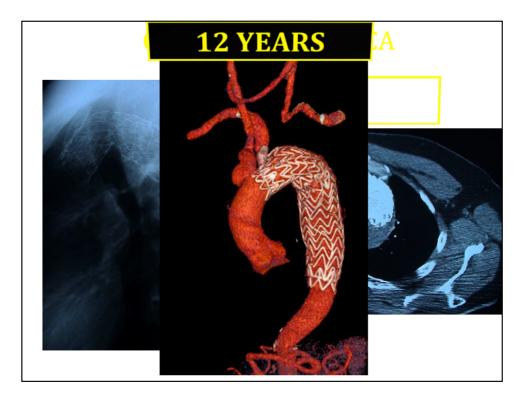


AS WELLAS IN OUR EXPERIENCE WITH 2 RESCUE CASES

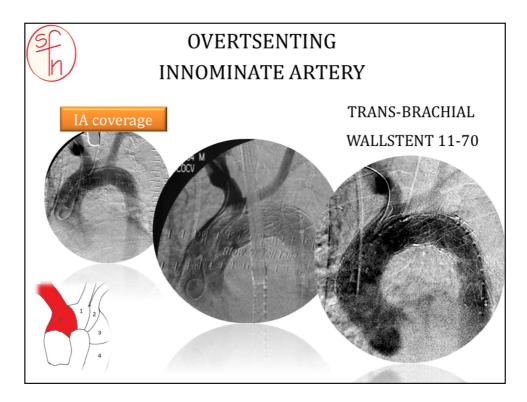


THE ONE FOR AN A LCCA OVERSTENTING ,

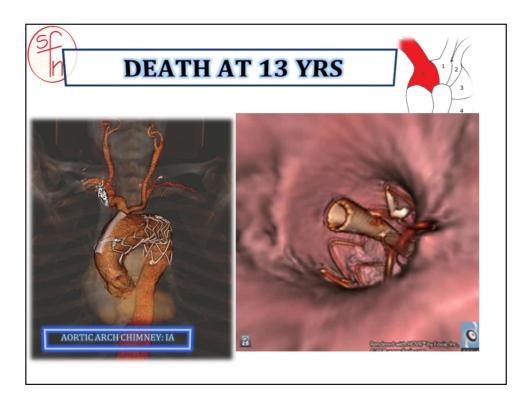
THE STENT WAS PROBABLY TOO SHORT AND ASYMPTOMATICALLY OCCLUDED AFTER 22 MONTHS



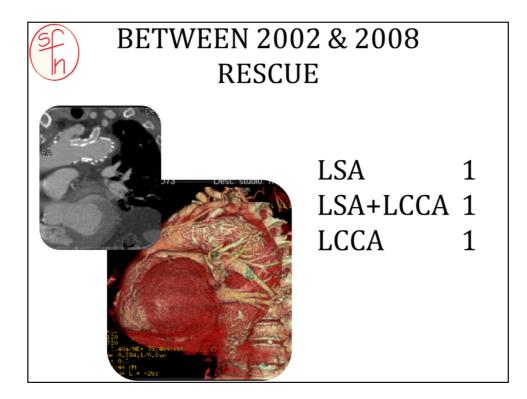
AND WAS RESCUED WITH A CAROTID-CAROTID BYPASS



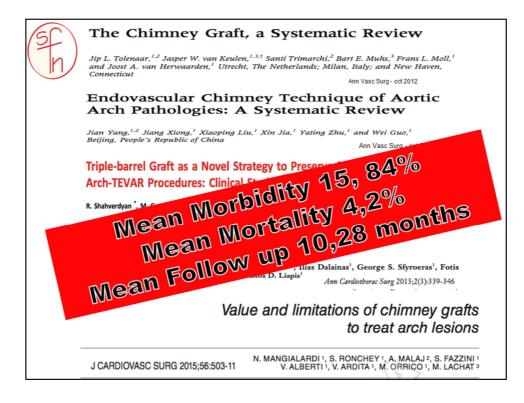
THIS IS THE SECOND CASE, HERE A BARE STENT WAS USED TO RESTORE PERFUSION AFTER AN ACCIDENTAL COVERAGE OF THE INNOMINATE ARTERY



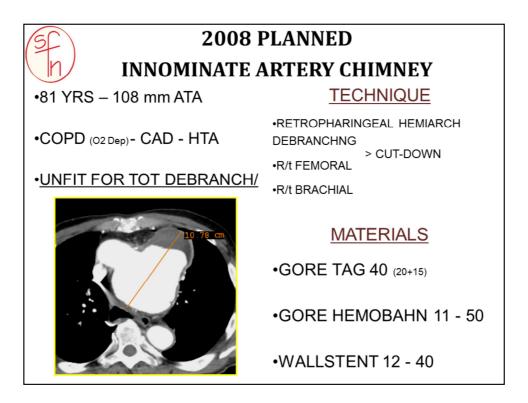
THE PATIENT DIED FOR PULMONARY COMPLICATIONS WITH HIS CHIMNEY STILL PATENT



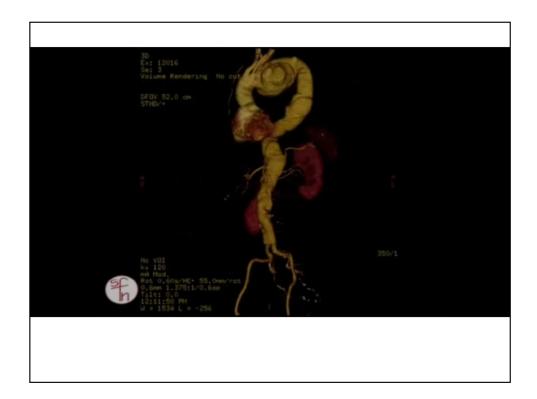
IN THE SUBSEQUENT YEARS WE TREATED ALWAYS FOR RESCUE SPORADICAL CASES

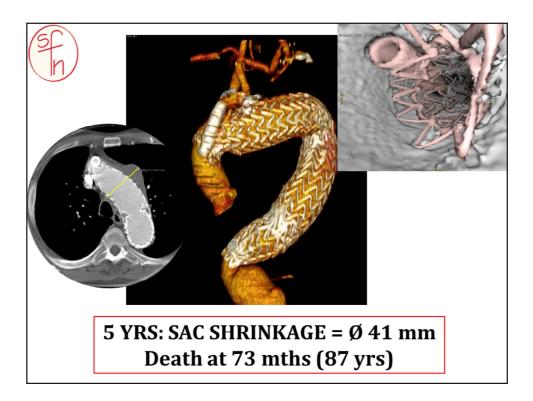


WITH GOOD RESULTS CONFIRMED BY ONGOING LITERATURE

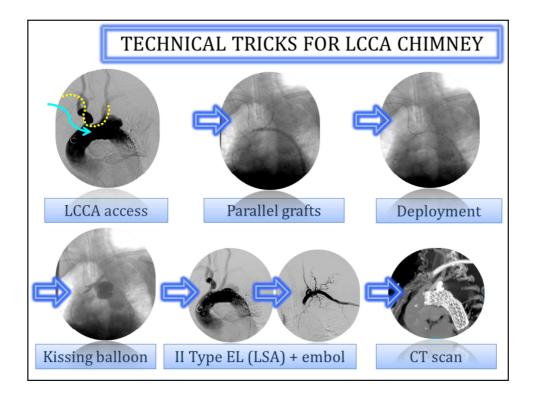


THIS IS WHY IN 2008 WE PLANNED A CHIMNEY STRATEGY IN THIS HIGH RISK PATIENT WITH A HUGE, SYMPTOMATIC ANEURYSM TURNED DOWN FROM ANY OTHER OPTION



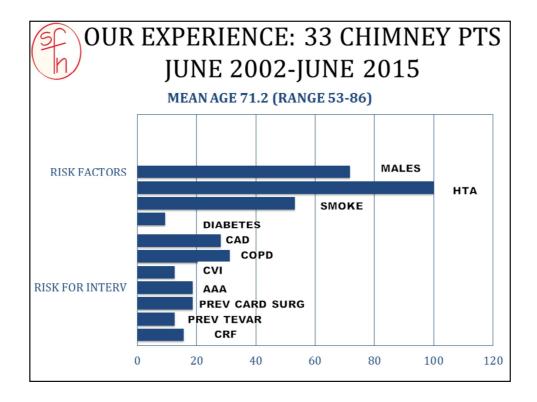


AND YOU CAN SEE WE OBTAINED A DRAMATIC SHRINKAGE OF 5 CM DURING FOLLOW UP



IN SOME CASES TO AVOID CUTDOWN FOR LEFT C CAROTID CHIMNEY WE FOUND USEFUL THE INSERTION OF THE CHIMNEY GRAFT FROM THE RIGHT BRACHIAL ARTERY

THE CANNULATION OF THE LCCA FROM A RIGHT BRACHIAL ACCESS TO INSERT THE PARALLELL GRAFT

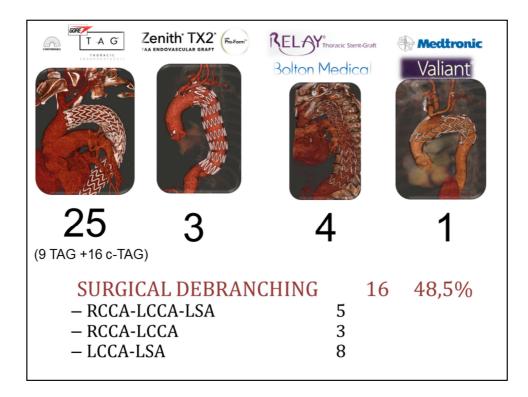


GLOBALLY OUR EXPERIENCE CONSIST IN 33 CASES COLLECTED OVER 13 YEARS

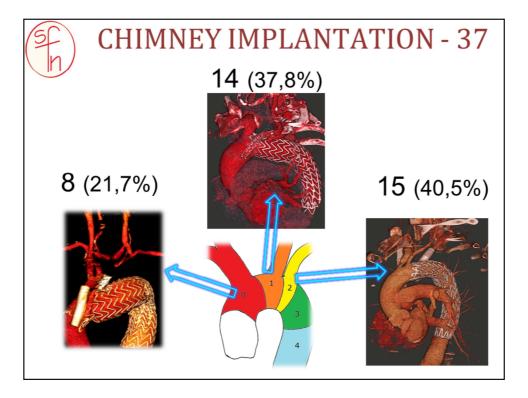
OUR EXPERIENCE - 33 CASES JUN 2002 - JUNE 2015 • INDICATIONS				
– EMERGENCY	9 (5 salvage)	27,3%		
– PLANNED	24	72,7%		
 PATHOLOGY TAA TYPE B DISS EL type I (TEVAR) PAU 	17 13 2 1	51,6% 39,4% 6,0% 3,0%		

9 CASES WERE DONE IN EMERGENCY, THE OTHER WERE PLANNED FORCOMORBIDITIES OR PREVIUOS CARDIAC SURGERY.

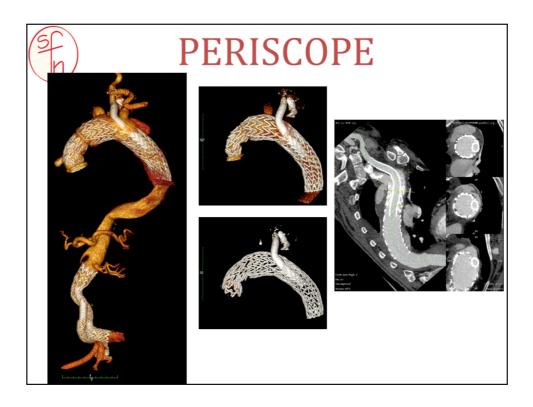
ANEURYSM and dissections were the MOST FREQUENT LESION but we used the technique even in 2 cases of type one endoleak



IN THE MAJORITY OF CASES WE USED THE GORE GRAFT AND CERVICAL DEBRANCHING WAS ASSOCIATED IN MORE THAN 40%



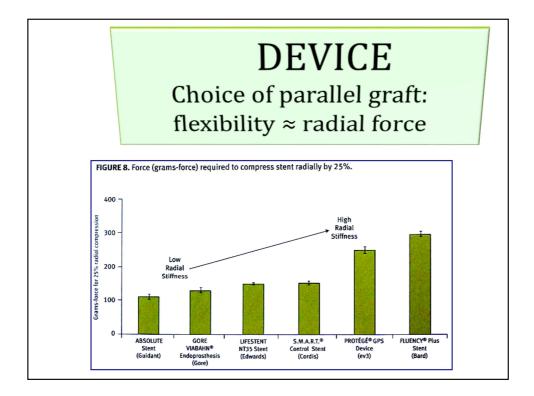
25% OF THE CHIMNEY WERE PLACED IN THE INNOMINATE ARTERY



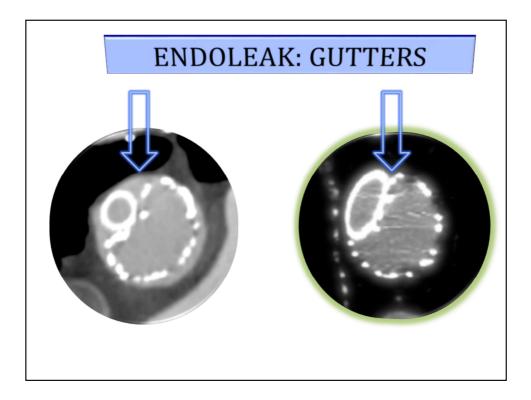
AND IN TWO CASES WITH UNFAVOURABLE VESSEL TAKE OFF WE PERFORMED A PERISCOPE

DEVICE THOR/ S-G radial force				
	Medtronic Valiant		MEDICAL MEDICAL MEDICAL	Bolton Medical) RELAY:
Proximal sealing zone	100	30	40	38
Distal sealing zone	42	30	43	15
Body spring	41	31	9	23

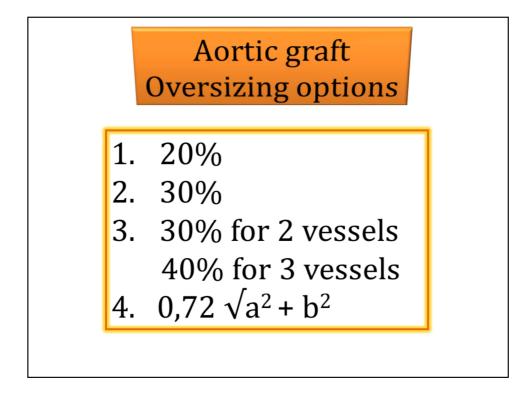
THE SG RADIAL FORCE



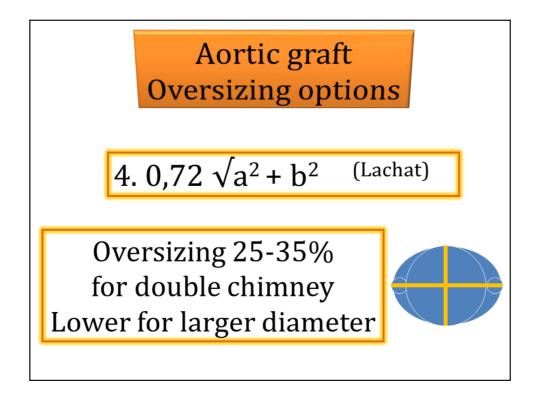
AS WELLAS THE FEATURES OF THE CHIMNEYS GRAFT MUST BE CONSIDERED WHEN PLANNING FOR THE OVERSIZING



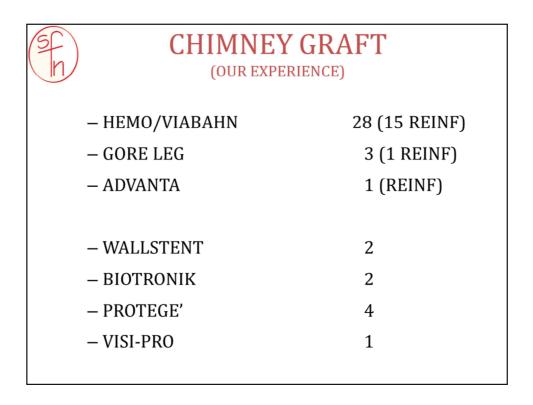
TO REDUCE THE EL GUTTERS



WHAT WE CURRENTLY ADOPT IS A MAIN GRAFT OVERSIZING BETWEEN 20 AND 30 %, ACCORDING TO LACHAT FORMULA



OR HIGHER FOR MORE COMPONENTS

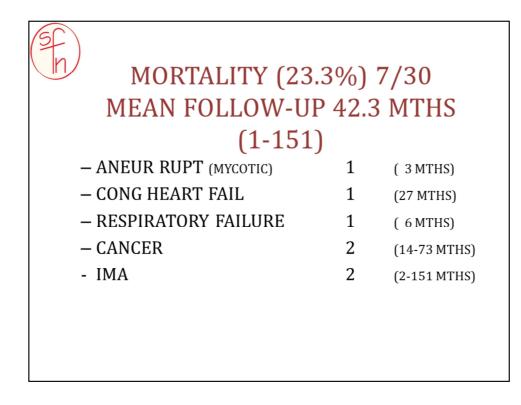


AS PARALL GRAFT WE USED SELF EXPANDABLE BARE STENT MAINLY FOR RESCUE AND VIABAHN FOR PLANNED CASES REINFORCED WITH BARE STENT IN PRESENCE OF SHARP ANGLE AND ALWAYS WHEN THE CHIMNEY WAS FOR THE INNOMINATE ARTERY

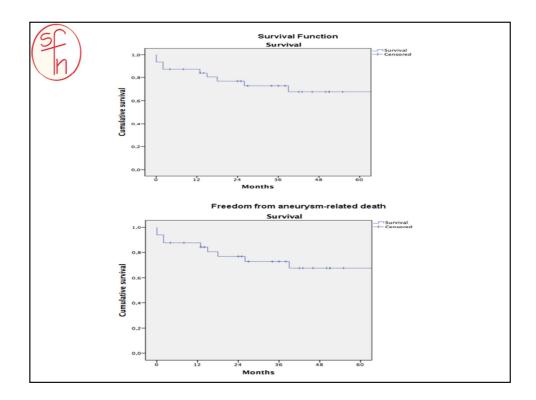
LIMB GRAFTS CAN BE NECESSARY IN CASE OF LARGE ARTERY DIAMETERS

SF)	30 DAYS RESUI	TS		
• TECHNICA	AL SUCCESS		100)%
• MORTALI' (RETR TYP)	TY E A-CEREBR HEMORI	3 R-RES	9.1 SP FAII	
• PARAH • TYPE	R STROKE (2 RUPT-1 PARESIS	7 ELEC	21.2 CT)	9% 3 1 0 3

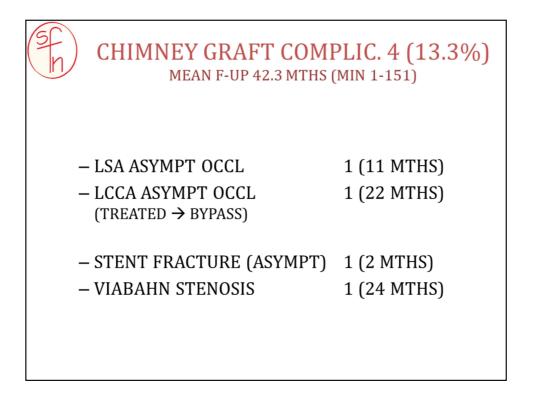
TECHNICAL SUCCESS WAS 100% AS IN OTHER EXPERIENCE WE HAD 9 % OF MORTALITY ONE PATENT DIED FOR RETROGRADE DISSECTION 3 MINOR STROKES OCCURRED TWO OF WHICH IN EMERGENCY NO TYPE ONE ENDOLEAK WAS DETECTED AT COMPLETION ANGIOGRAPHY



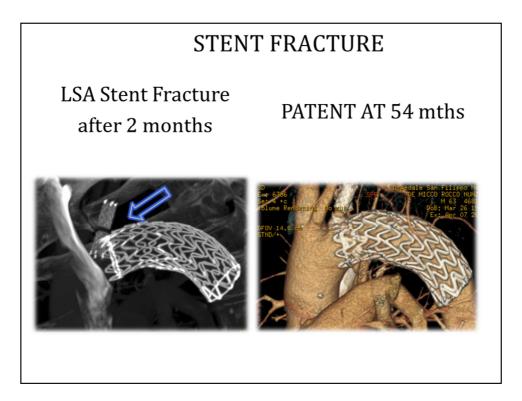
AT 3 AND HALF YEARS FOLLOW UP WE HAD 4 DEATH ONLY ONE PTHOLOGY RELATED DUE TO A MICOTIC ANEURYSM RUPTURE



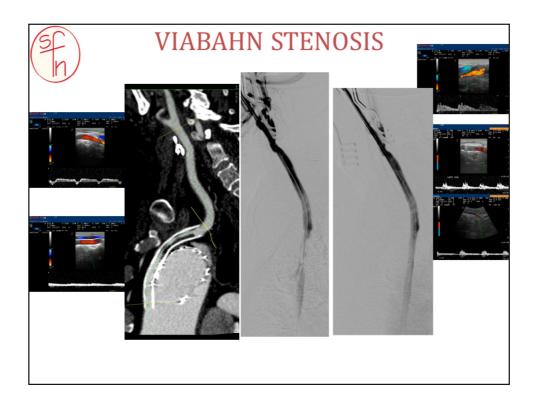
THESE ARE THE SURVIVAL AND FREEDOM FROM ANEURYSM RELATED DEATH



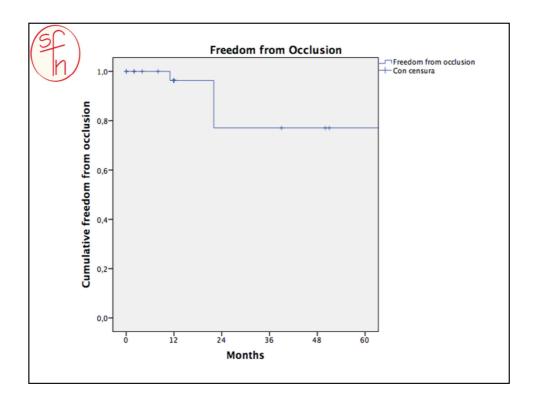
WE OBSERVED 4 ASYMPTOMATIC CHIMNEY GRAFT COMPLICATIONS: 2 OCCLUSIONS, ONE ALREADY SHOWN, TREATED BECAUSE OF THE LEFT COMMON CAROTID ARTERY;



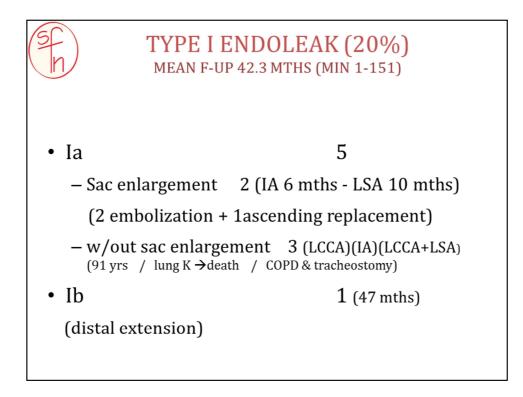
THE CHIMNEY WITH STENT FRACTURE IS STILL PATENT AND WAS LEFT UNTREATED



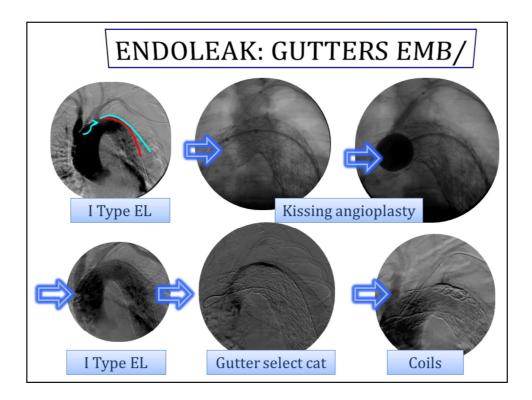
THE VIABAHN STENOSIS WAS TREATED BY ANGIOPLASTY AND STENTING VIA EXTERNAL CAROTID ARTERY



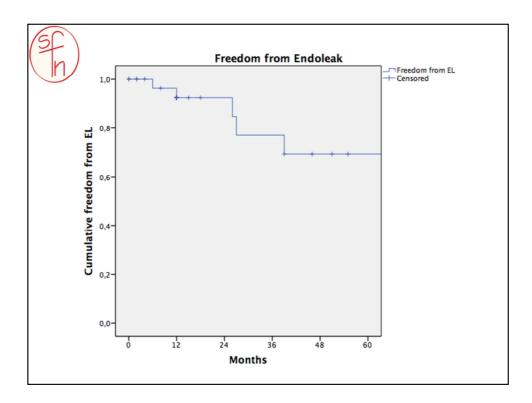
AND THIS IS THE FREEDOM FROM OCCLUSION CURVE



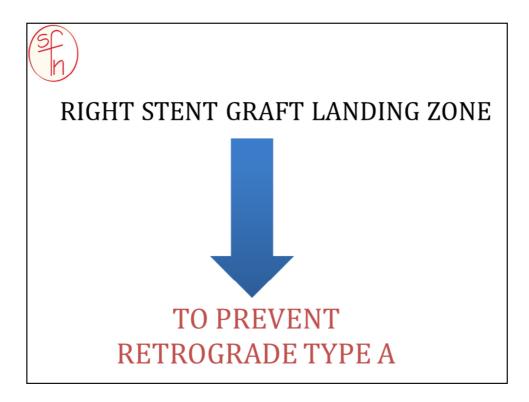
DURING FOLLOW UP 6 PATIENTS DEVELOPED TYPE ONE ENDOLEAK, THE ONE WITH TYPE ONE B WAS TREATED BY DISTAL EXTENSION, 3 WERE LEFT UNTREATED BECAUSE OBSERVED IN PROHIBITIVE RISK PATIENTS AND W/OUT SAC ENLARGEMENT, 2 WERE TREATED BY EMBOLIZATION AND ONE WAS EVEN TREATED FOR AN ASCENDING DILATATION BY THE CARDIAC SURGEON



THIS IS ONE OF THE TWO: AFTER AN INEFFECTEVE REDO KISSING BALLON ANGIOPLASTY WE PERFORMED A TRANSFEMORAL COILS EMBOLIZATION

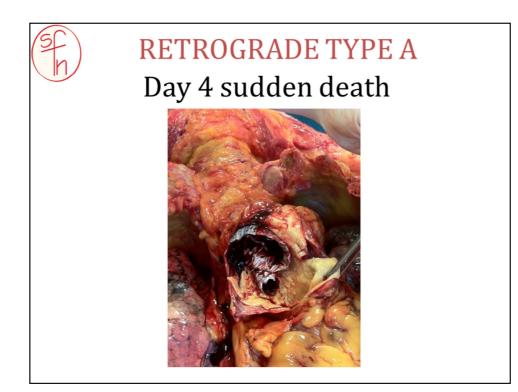


AND THIS IS THE TYPE ONE ENDOLEAK FREE SURVIVAL CURVE





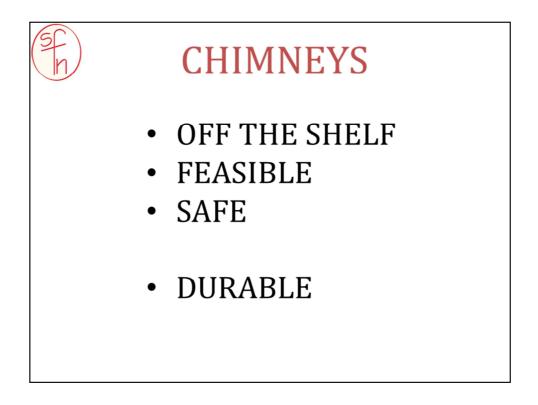




Aortic arch debranching and thoracic endovascular repair 105 pts

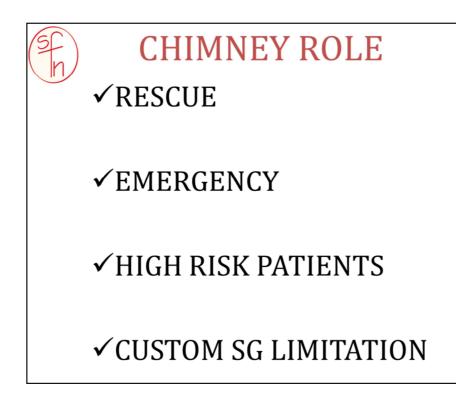
Paola De Rango, MD, PhD,^b Piergiorgio Cao, MD, FRCS,^a Ciro Ferrer, MD,^a Gioele Simonte, MD,^b Carlo Coscarella, MD,^a Enrico Cieri, MD, PhD,^b Gabriele Pogany, MD,^a and Fabio Verzini, MD, PhD,^b Rome and Perugia, Italy

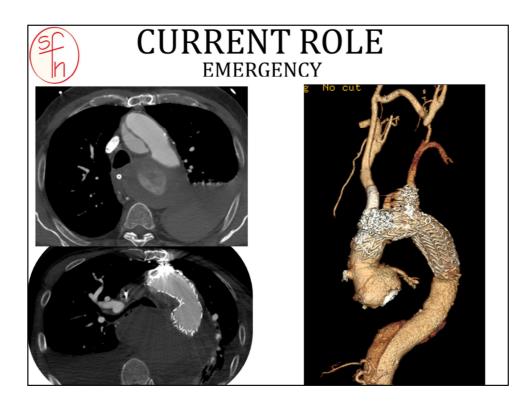
• ZONE 0	19	Overall, four de novo type A retrograde dissections were recorded at 30 days: three occurred in patients with		
• ZONE I	51	zone 0 repair (two were lethal) and one after 10 days in		
• ZONE II	35	a patient with zone 1 partial debranching who was success- fully treated with ascending aorta replacement.		
• MORTA	LITY	5.8% (4/6 ZONE 0)		
		2 RETR TYPE A		
• STROKE		3.8% (1/3 ZONE 0)		
• SCI		2.9%		
		(J Vasc Surg 2014;59:107-14.)		



SO I THINK I CAN CONCLUDE THAT CHIMNEY TECHNIQUE IS NOT ONLY FEASIBLE AND SAFE IN THE IMMEDIATE BUT EVEN DURABLE IN THE LONG RUN

TYPE I ENDOLEAK IS STILL AN ISSUE





AND CERTAINLY CANNOT BE USE FOR URGENT CASES LIKE THIS RUPTURE

