

Jak uzavírat nadměrně velká ouška levé síně ?

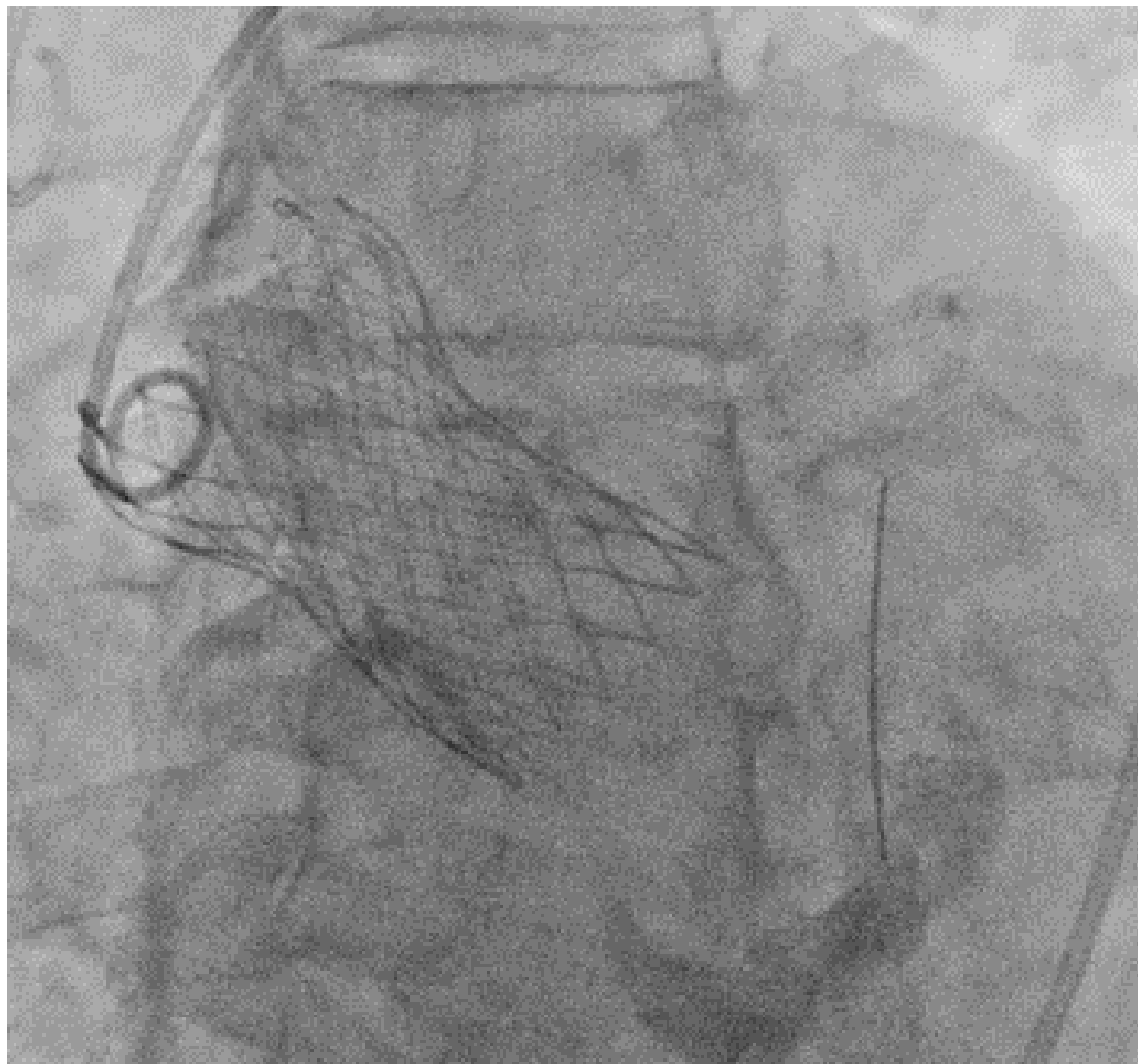
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Kazuistika

- 82 letý muž
- HTN, HLP, chronické nefritdy a dny
- ICHS – stp IM s PCI na RIA
- iCMP – residuální paresou VII hl.n.
- Permanentní FS, CHA2DS2-VASc 5

Kazuistika

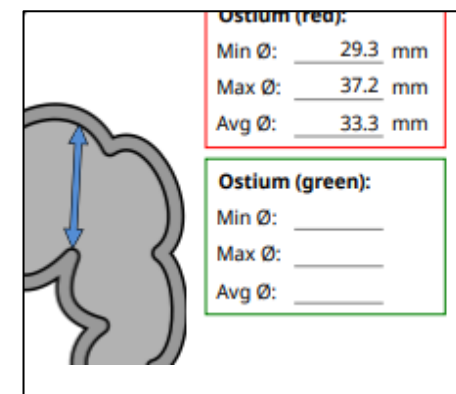
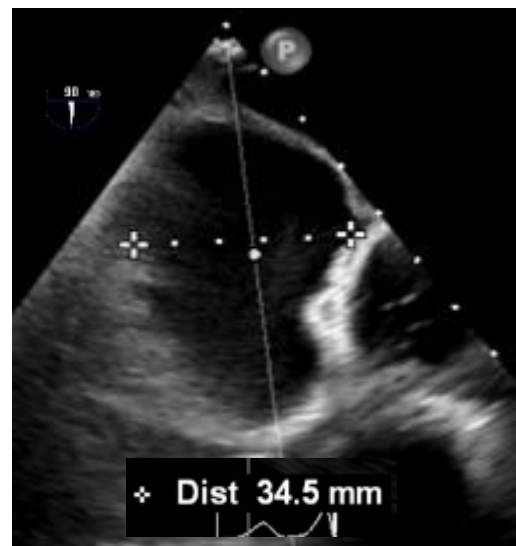
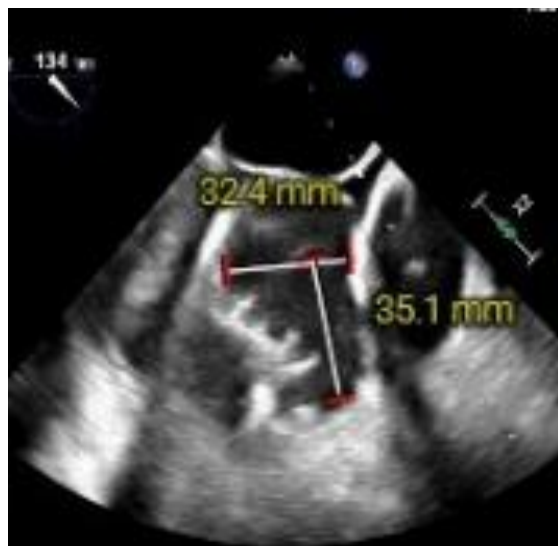
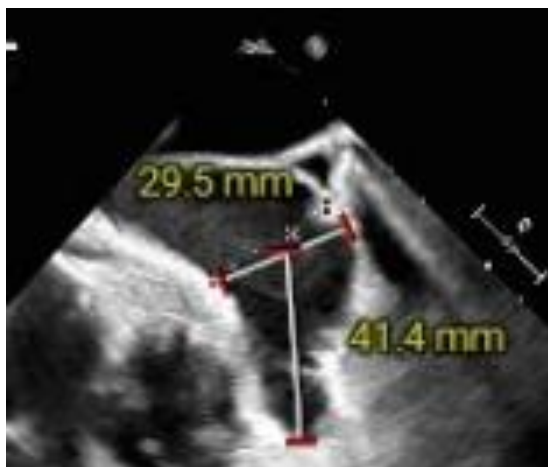
- Listopad 2023 – závažná AS
 - P/M Grad 88/42mmHg
 - AVA 0,81cm²
- Listopad 2023 – TF TAVI
 - Evolut R 34



Kazuistika

- Deficit faktoru X – dispenzarizován na hematologii
- 2x spontánní krvácení do ramenního kloubu – na Warfarinu (INR 2,1) a Xareltu 1x15mg s nutností evakuace
- Odeslán k LAAC

Kazuistika - TEE a CT vyšetření



Kazuistika

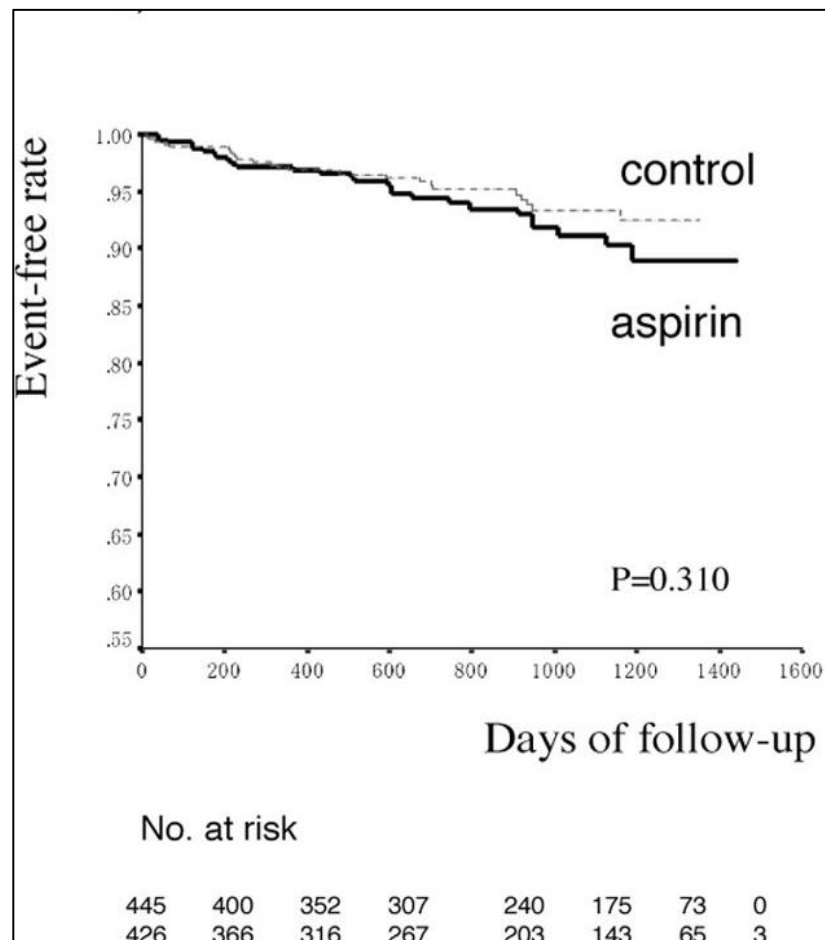
Largest diameter LAA ostium mm	WATCHMAN FLX	Largest diameter LAA neck* mm	Amulet
14-18	20	11-13	16
		13-15	18
19-22.5	24	15-17	20
		17-19	22
26-28	31	25-28	31
		28-31	34
29-33	35	*LAA neck: LAA diameter at a depth 12-15 mm from the ostium	

Dle IFU je velikost ostia ouška příliš velká pro uzávěr okluderem Watchmann FLX i Amulet

Kazuistika – jak postupovat dál ?

- Konzervativně – jiný NOAK - Apixaban 2x2,5mg
- Konzervativně – ASA /DAPT
- Konzervativně – bez antitrombotické léčby
- Chirurgická exkluze ouška – AtriClip
- Katetrizačně – prostě to zkusit.....a možná se udrží

ASA v prevenci CMP u pacientů s FS



	Aspirin (n=426)	Control (n=445)	P Value
Primary end points	27	23	0.458
Cardiovascular death	3	3	1.000*
Stroke	17	18	0.967
Cardiogenic embolism	14	12	0.609
Thrombotic infarction	3	2	0.959*
Lacunar infarction	0	4	0.135*
TIA	7	2	0.101*
Secondary end points	14	9	0.254
Noncardiovascular death	7	6	0.720
Peripheral emboli	0	1	1.000*
Major bleeding	7†	2‡	0.101*

*Fisher test;

†includes 2 subdural bleedings, thalamic bleeding, subarachnoidal bleeding, urinary tract bleeding, gastric bleeding, and respiratory bleeding;

‡include subarachnoidal bleeding and thalamic bleeding.

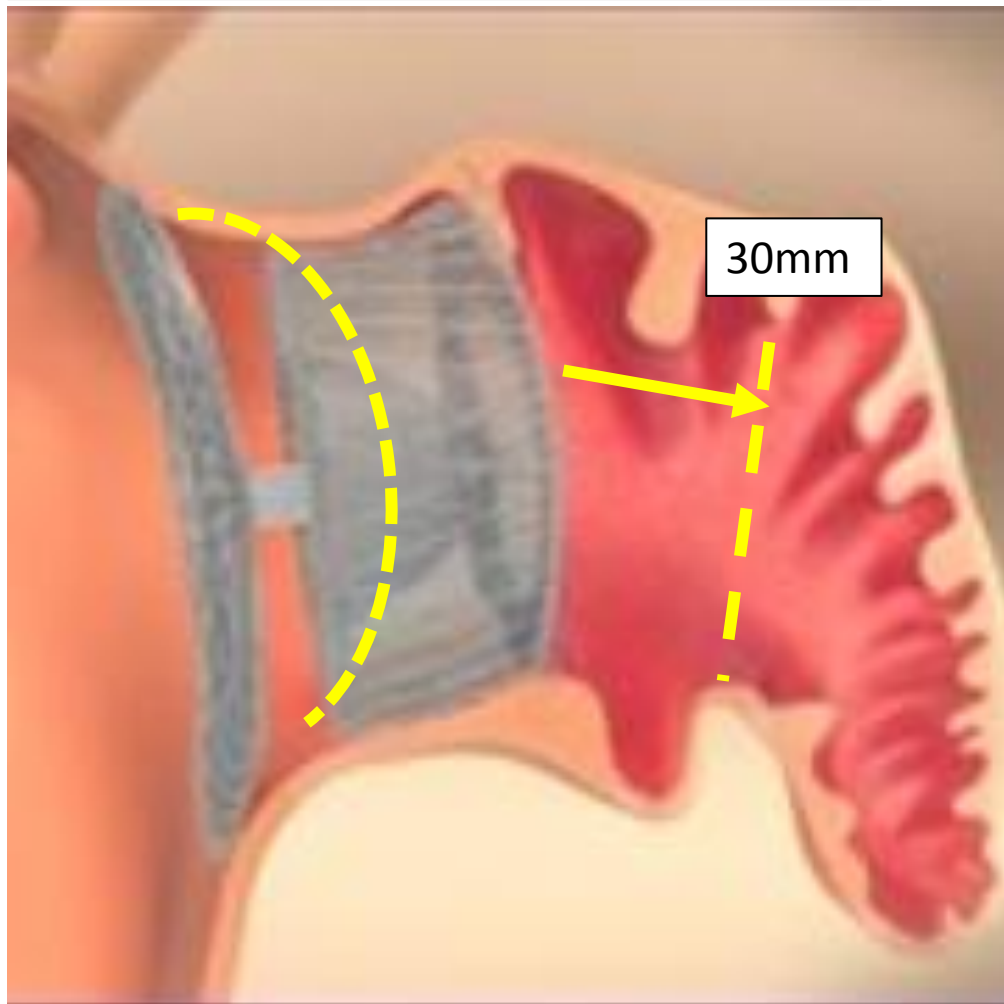
DAPT vs monoterapie v prevenci CMP u pacientů s FS

MATCH	7599 patients with recent ischemic stroke or TIA and at least 1 additional vascular risk factor	Clopidogrel 75 mg/d plus aspirin 75 mg/d vs clopidogrel 75 mg/d alone	18 mo	RRR=6.4% ($P=0.244$) for primary outcome; ARD 1.26% ($P<0.0001$) for life-threatening bleeding; ARD 0.40% ($P=0.029$) for primary intracranial hemorrhage
SPS3	3020 patients with symptomatic lacunar stroke in the preceding 180 days	Aspirin 325 mg/d plus clopidogrel 75 mg/d vs aspirin 325 mg/d alone	3.4 y	HR=0.92 ($P=0.48$) for recurrent stroke; HR=1.97 ($P<0.001$) for major hemorrhage; HR=1.52 ($P=0.004$) for all-cause mortality
CHARISMA	15 603 patients with cardiovascular disease or multiple risk factors; included n=4320 with TIA or ischemic stroke	Clopidogrel 75 mg/d plus aspirin 75–162 mg/d vs aspirin 75–162 mg/d	28 mo	RR=0.93 ($P=0.22$) for primary composite outcome in all patients; RR=0.80 (0.62–1.03) for recurrent stroke in the TIA/stroke subgroup

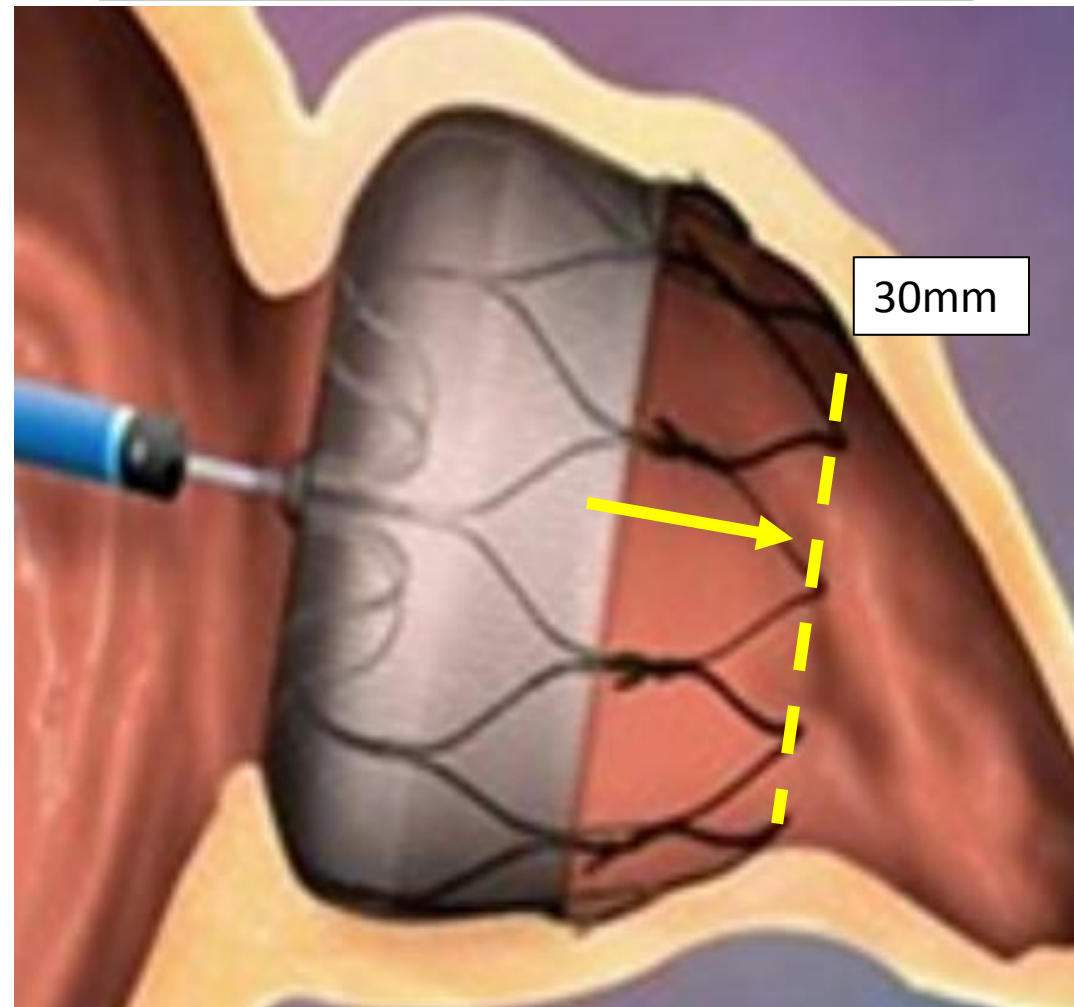
- Dlouhodobé užívání DAPT vs monoterapie zvyšuje riziko život ohrožujícího krvácení a úmrtí, který neutralizuje malý benefit na prevenci CMP

Uzávěr ouška levé síně

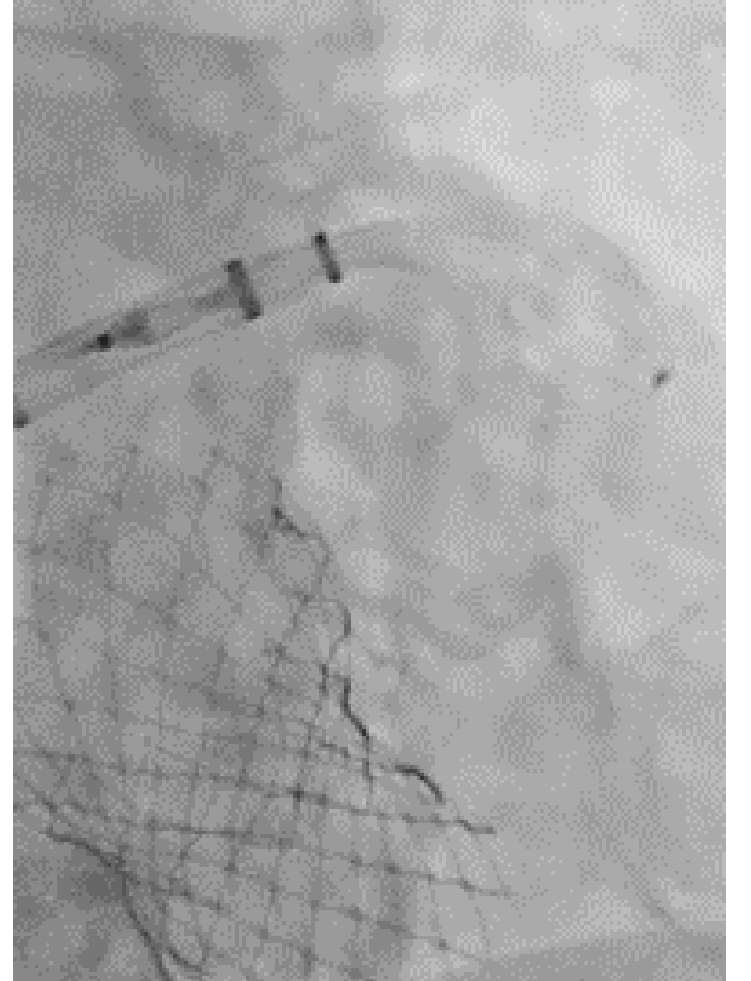
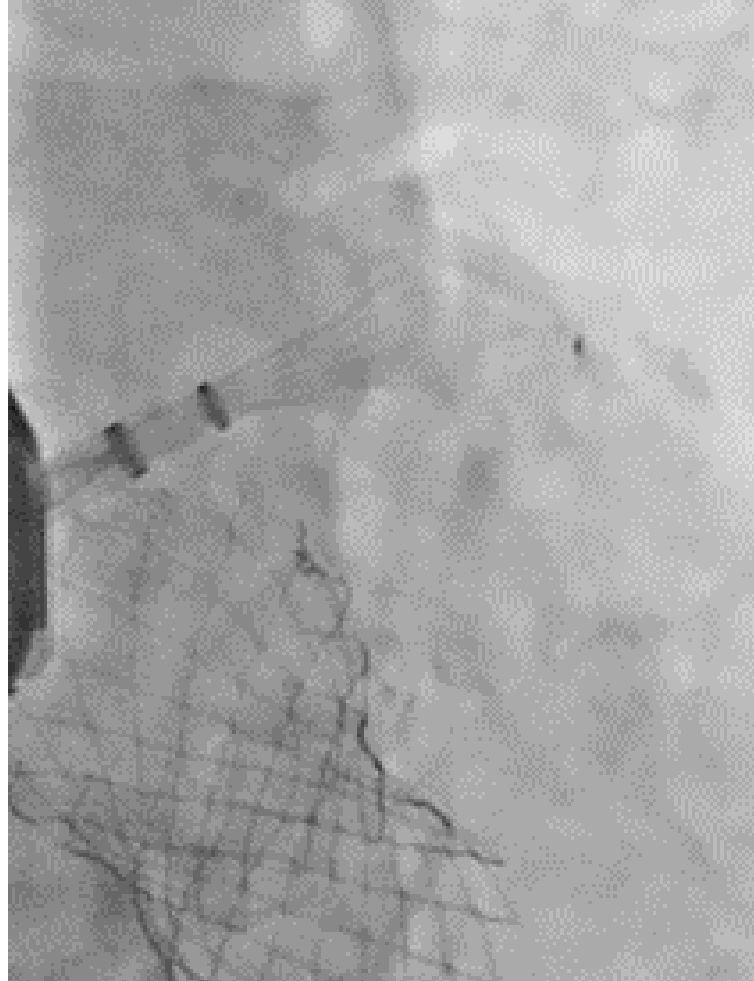
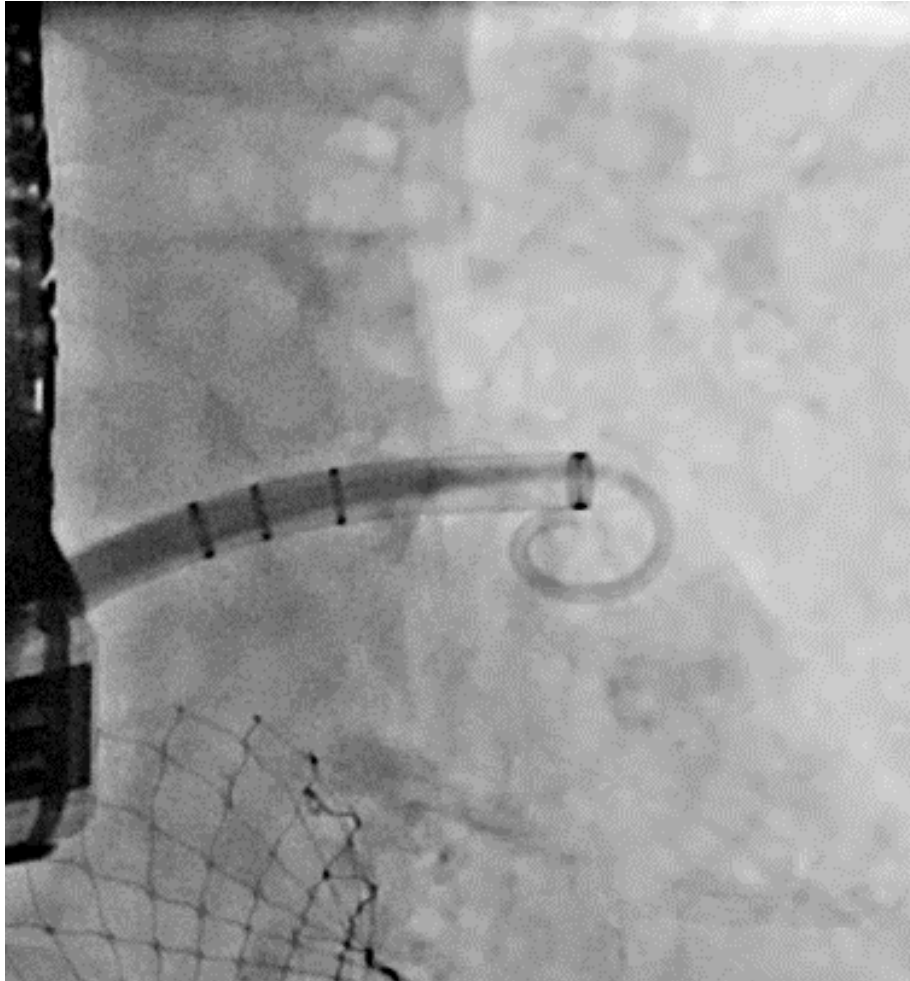
Amplatzer Amulet okluder



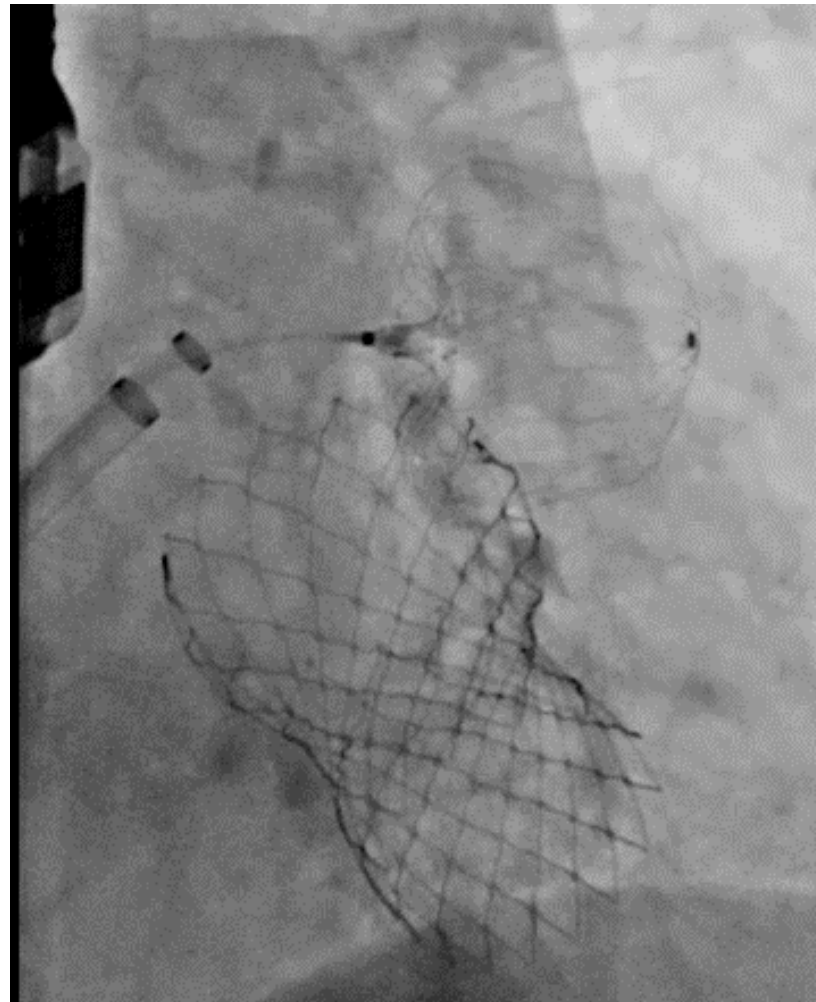
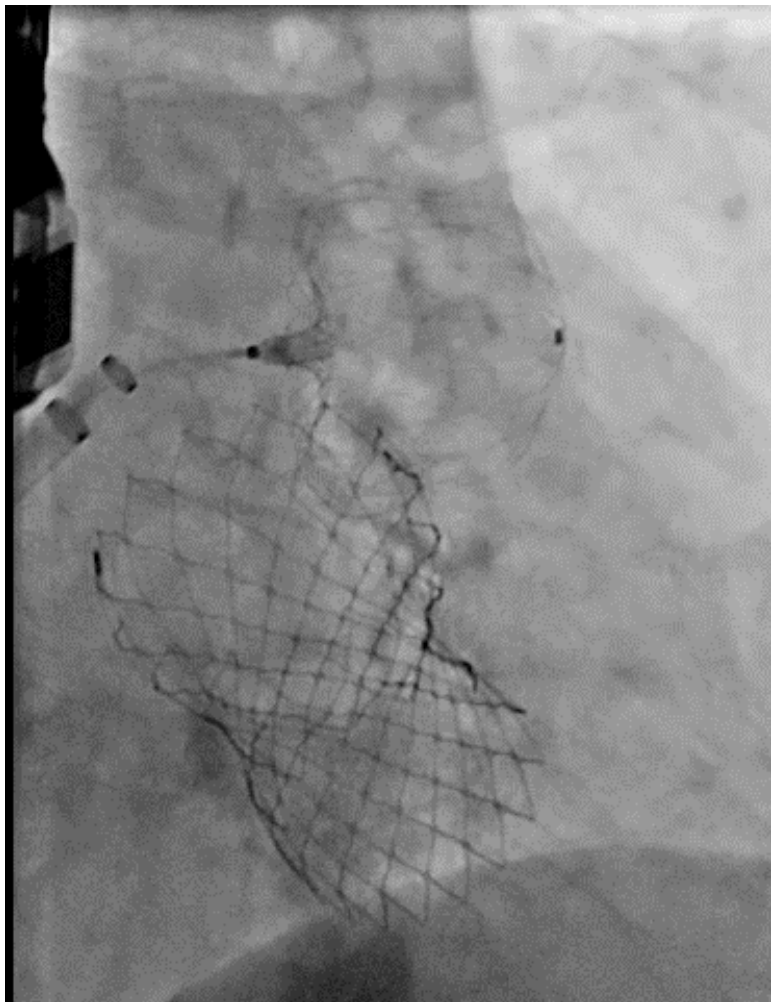
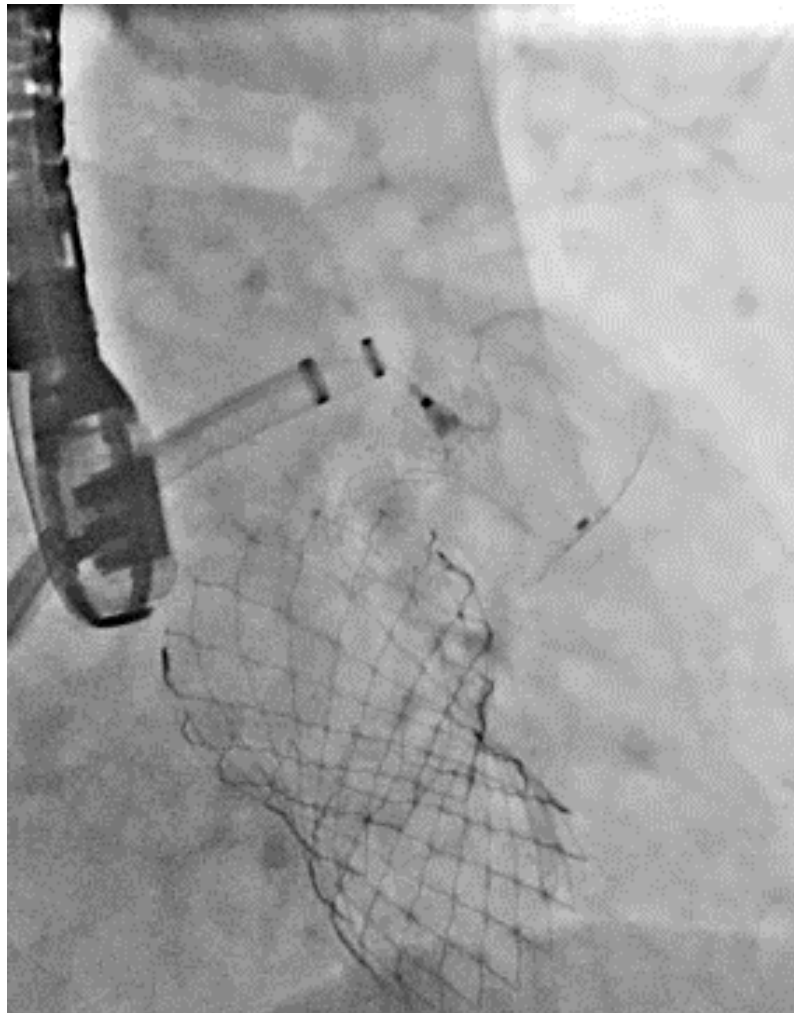
Watchman okluder



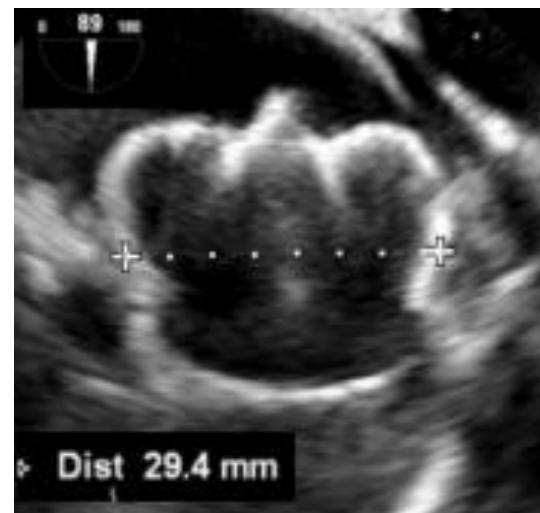
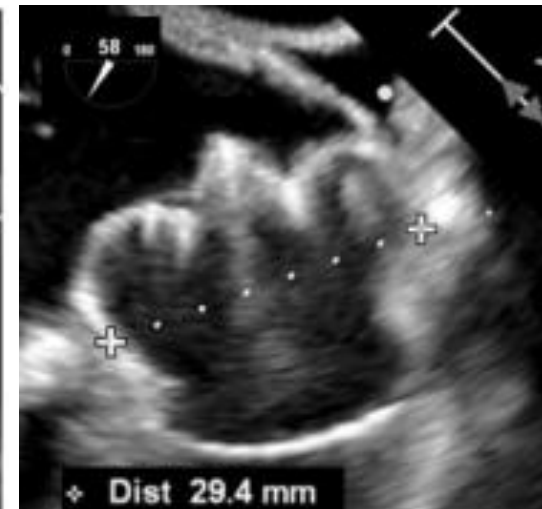
Kazuistika



Kazuistika



Kazuistka – jak jsme pacienta léčili



LAAC u nadměrných velikosti ouška

Počet pacientů	Max rozměr LAA (mm)	Velikost okluderu	Technický úspěch	Periproc. leak	6M FU leak	6M FU DRT	6M FU léčba
n=4	33,5 (31-37)	Wfx 35	100%	0	1 (3mm)	0	3 Mono, 1 DAPT

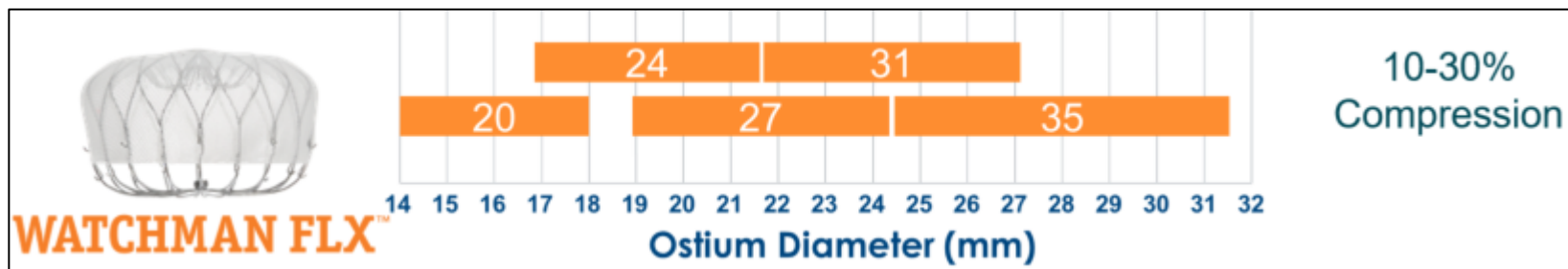
Závěr

- Velikost ouška nad 31mm (podle IFU) neumožňuje uzávěr okludery Amulet a Watchman Flx
- Při kontraindikací antikoagulace jsou nemocní vystaveni vysokému riziku systémové / mozkové embolizace
- Off label LAAC je proveditelný, bezpečný a pravděpodobně sníží riziko tromboembolických příhod

Děkuji za pozornost



Kazuistika



Amplatzer™ Amulet™ LAA Occluder

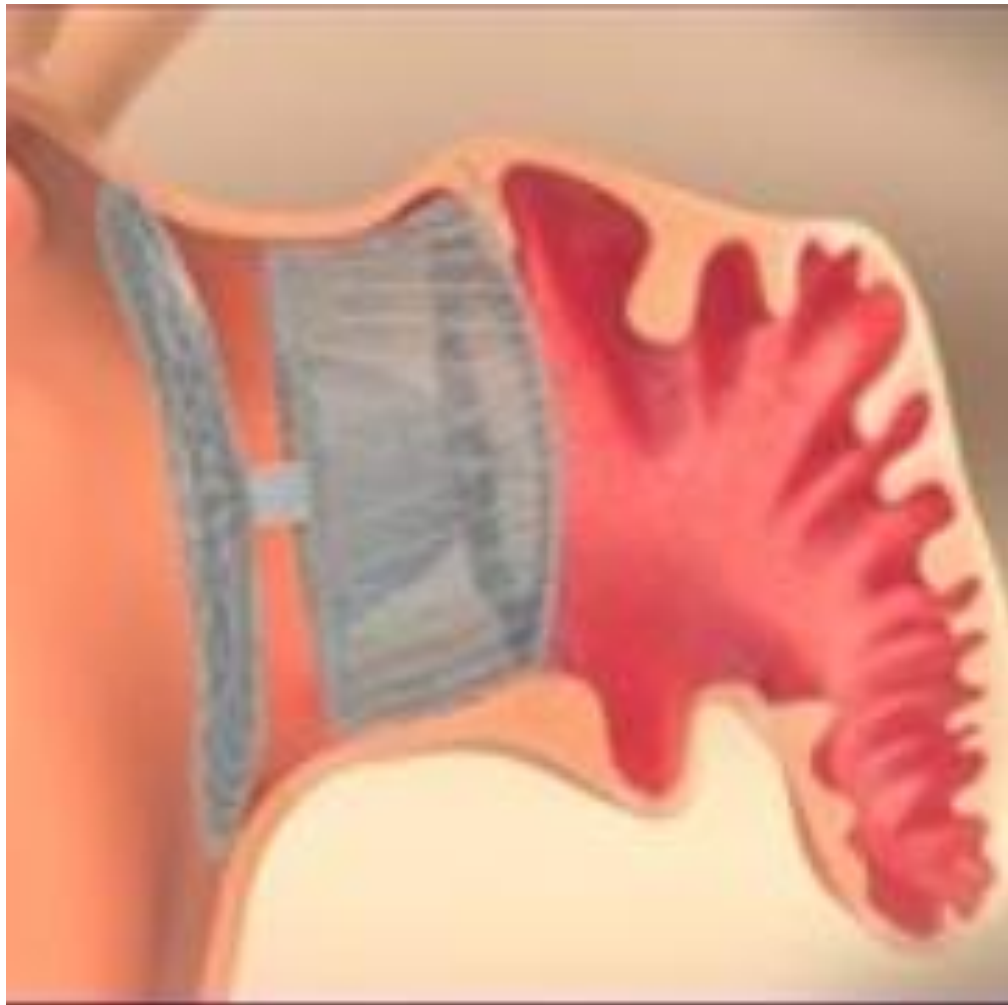
Reorder Number	Amulet Device Size/Lobe Diameter	Landing Zone Width (mm)	Lobe Length (mm)	Minimum Sheath Size (mm)	Minimum LAA Depth (mm)	Disc Diameter (mm)
9-ACP2-007-016	16	11.0-13.0	7.5	12 F	≥ 10	22

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9-ACP2-010-025	25	19.0-22.0	10	12 F	≥ 12	32
9-ACP2-010-028	28	22.0-25.0	10	14 F	≥ 12	35
9-ACP2-010-031	31	25.0-28.0	10	14 F	≥ 12	38
9-ACP2-010-034	34	28.0-31.0	10	14 F	≥ 12	41

Uzávěr ouška levé síně

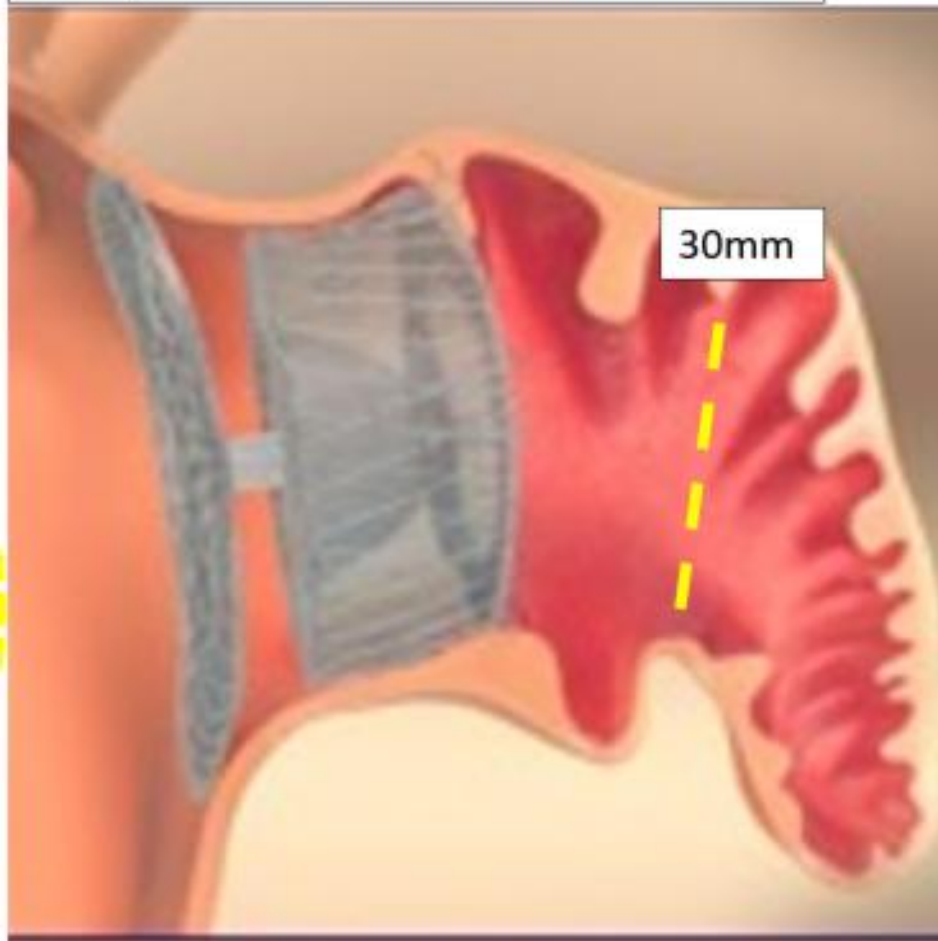
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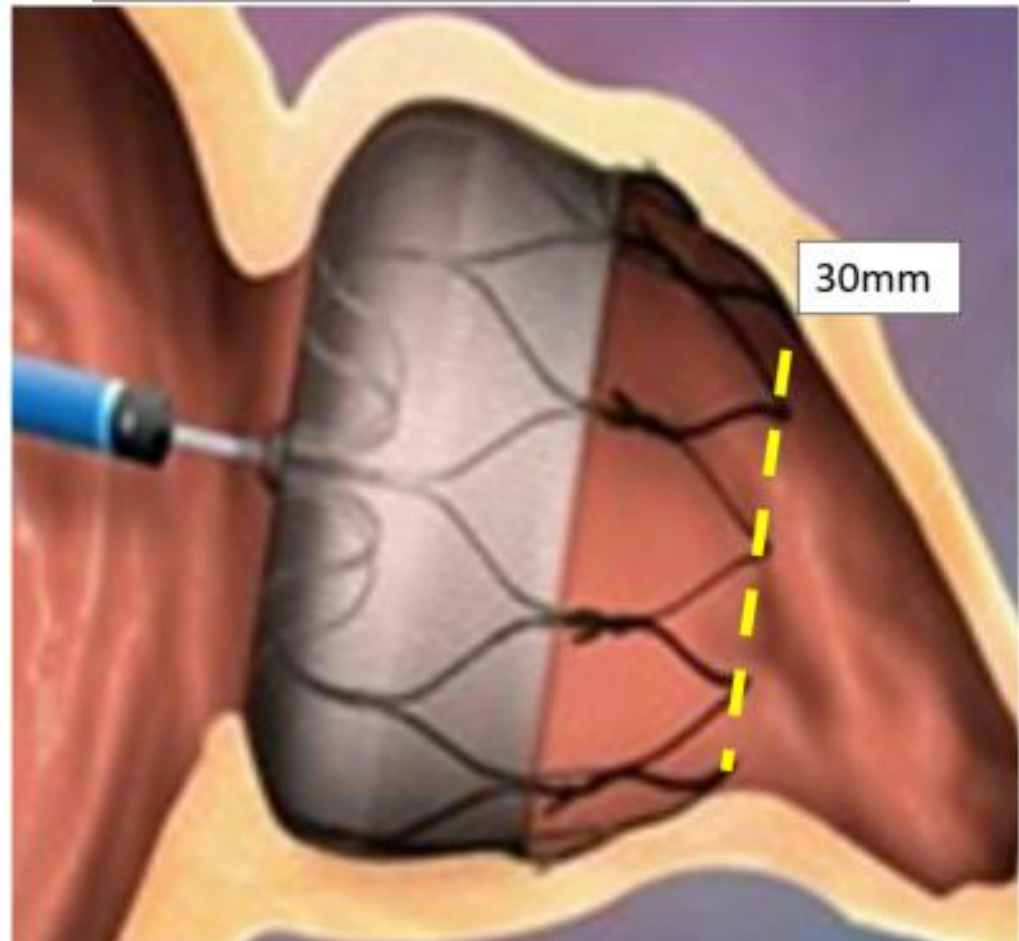
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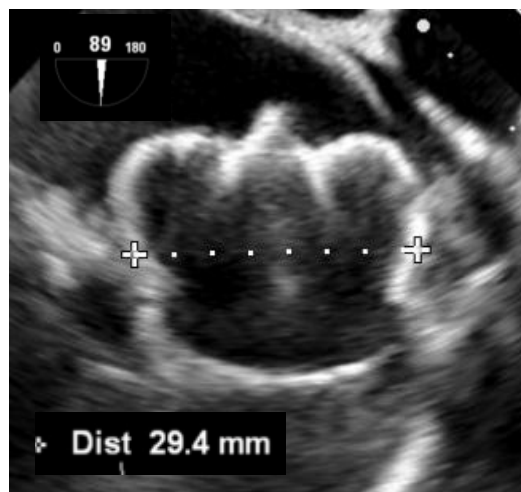
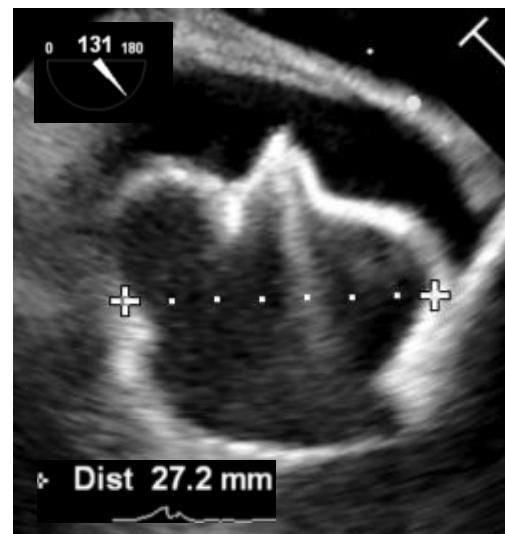
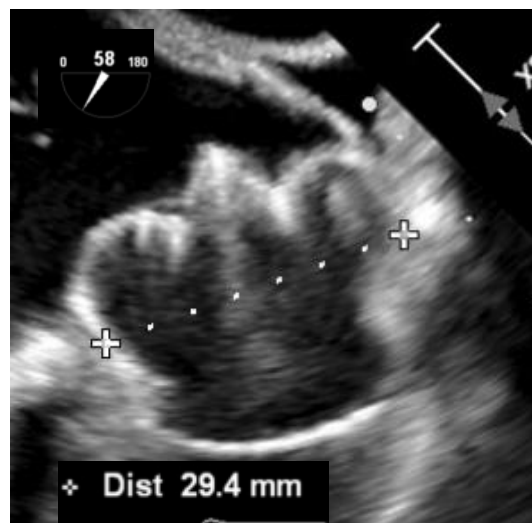
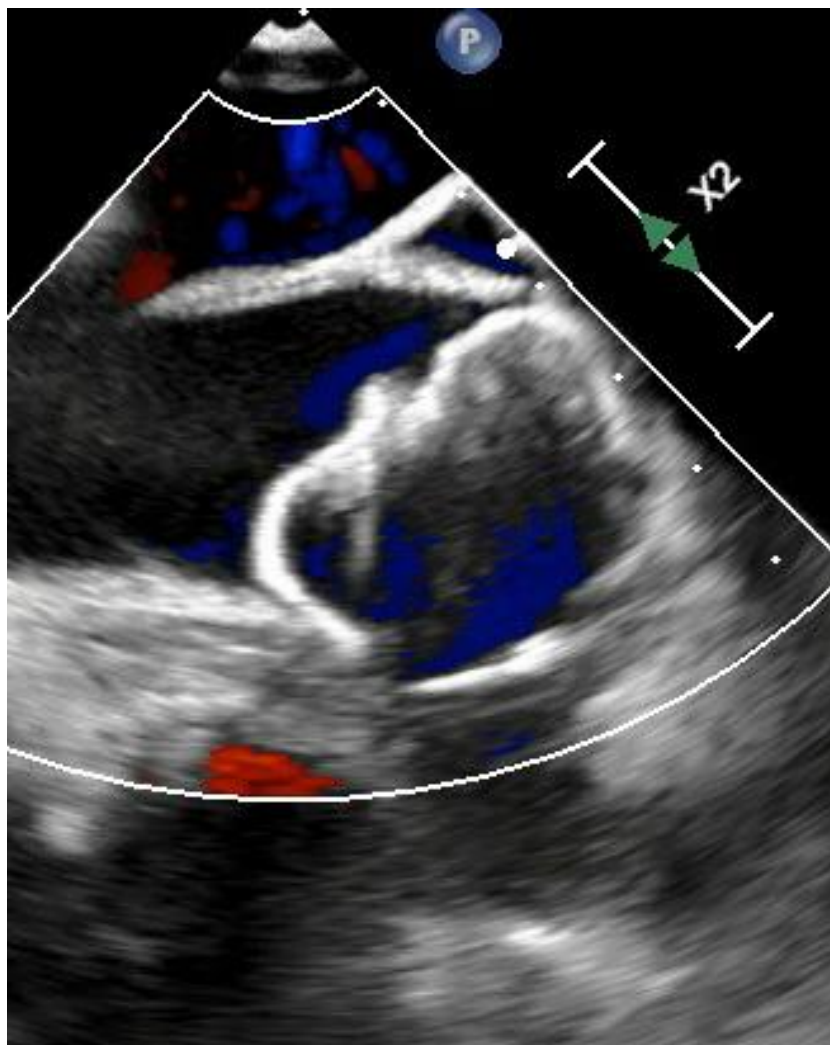
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