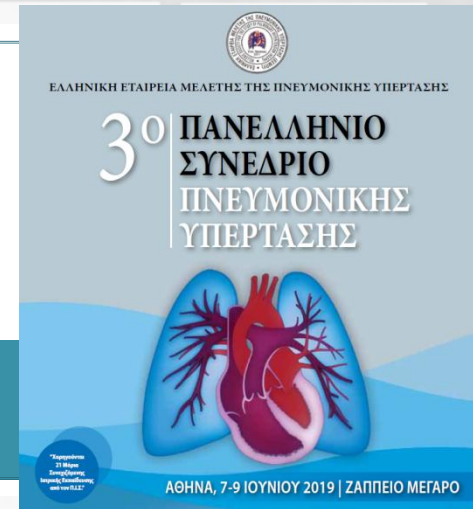


ΠΑΡΟΥΣΙΑΣΗ ΠΕΡΙΣΤΑΤΙΚΟΥ

ΔΗΜ. ΤΣΙΑΤΡΑΣ MD FESC



ΠΑΡΟΥΣΙΑΣΗ ΠΕΡΙΣΤΑΤΙΚΟΥ

- Άνδρας 56 ετών παραπέμπεται λόγω πνευμονικής υπέρτασης για περαιτέρω διερεύνηση
- ΑΤΟΜΙΚΟ ΑΝΑΜΝΗΣΤΙΚΟ
- Χρόνια αρθρίτιδα χωρίς σαφή διάγνωση αυτοάνοσου νοσήματος
- Κρίσεις βρογχικού άσθματος σε μικρή ηλικία
- Παροξυσμική κολπική μαρμαρυγή (ιδιοπαθής) > ablation προ 3 μηνών.

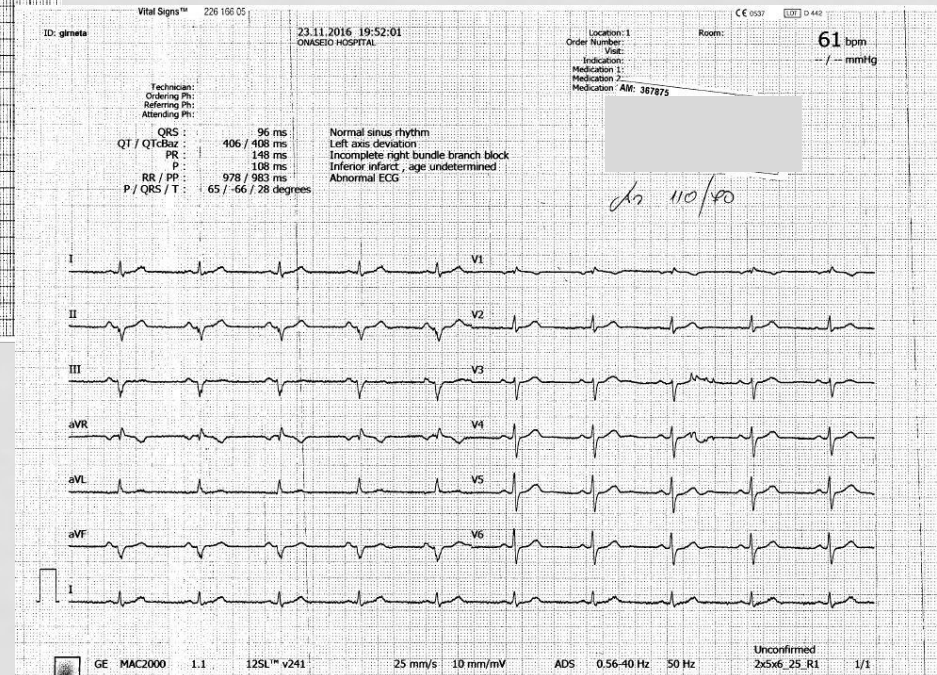
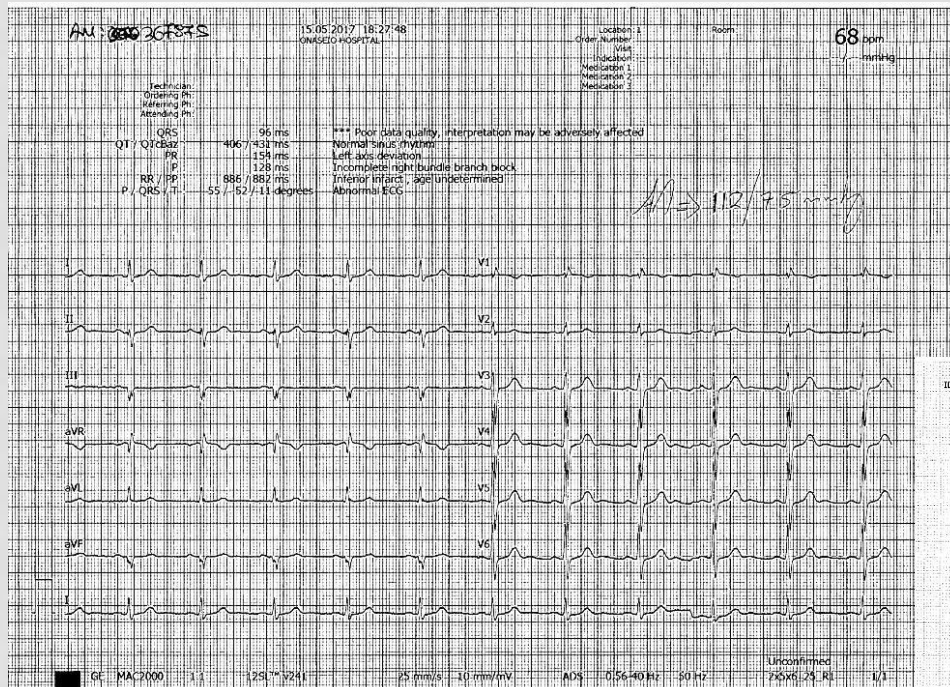
ΣΥΜΠΤΩΜΑΤΟΛΟΓΙΑ

- Οξεία δύσπνοια κατά τη διάρκεια ελεύθερης κατάδυσης
- Νοσηλεία με διάγνωση «οξέος πνευμονικού οιδήματος» χωρίς ανίχνευση καρδιακής αιτιολογίας
- Βελτίωση με διουρητικά και χορήγηση οξυγόνου
- Εκτοτε αναφέρει ραγδαία επιδείνωση με λειτουργική κλάση στη διακομιδή του WHO III-IV

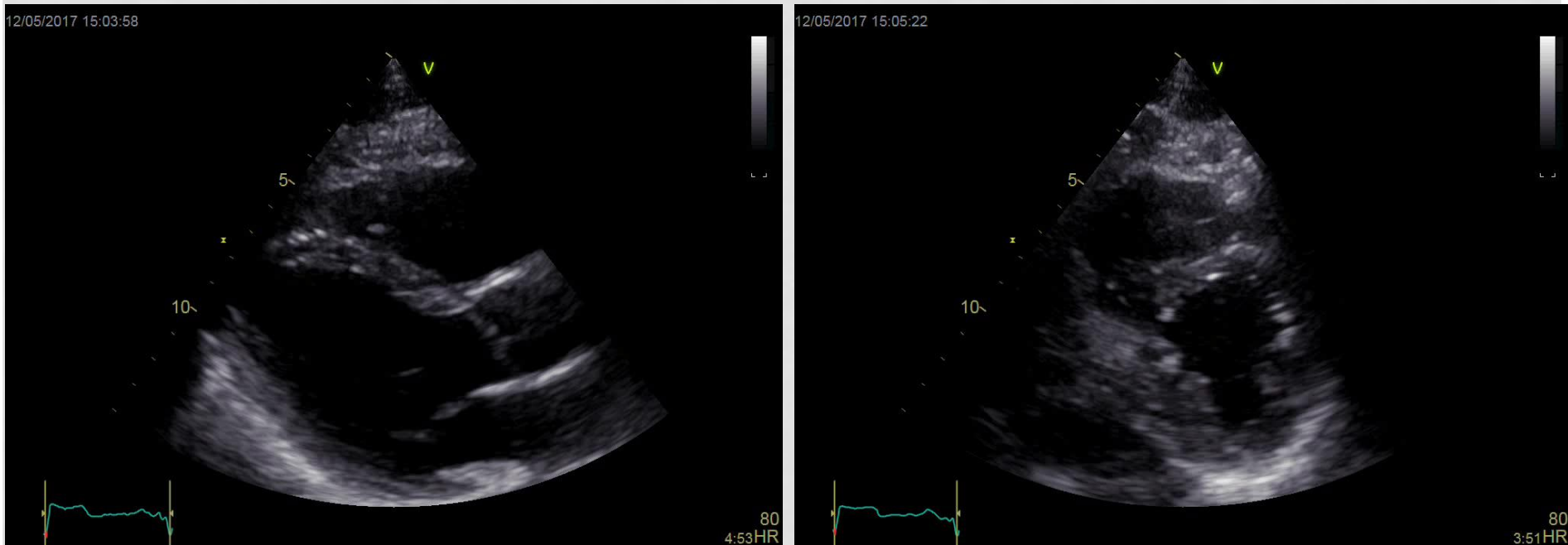
ΕΥΡΗΜΑΤΑ

- ΚΛΙΝΙΚΗ ΕΞΕΤΑΣΗ
- Διάταση σφαγιτίδων
- Ακρόαση καρδιάς: Αύξηση P2 χωρίς φυσήματα
- Μείωση αναπνευστικού ψιθυρίσματος άμφω χωρίς συρρίοντες
- Α/α Θώρακος: Συλλογή πλευριτικού υγρού άμφω
- Προπέτεια πυλών με εικόνα συμφόρησης

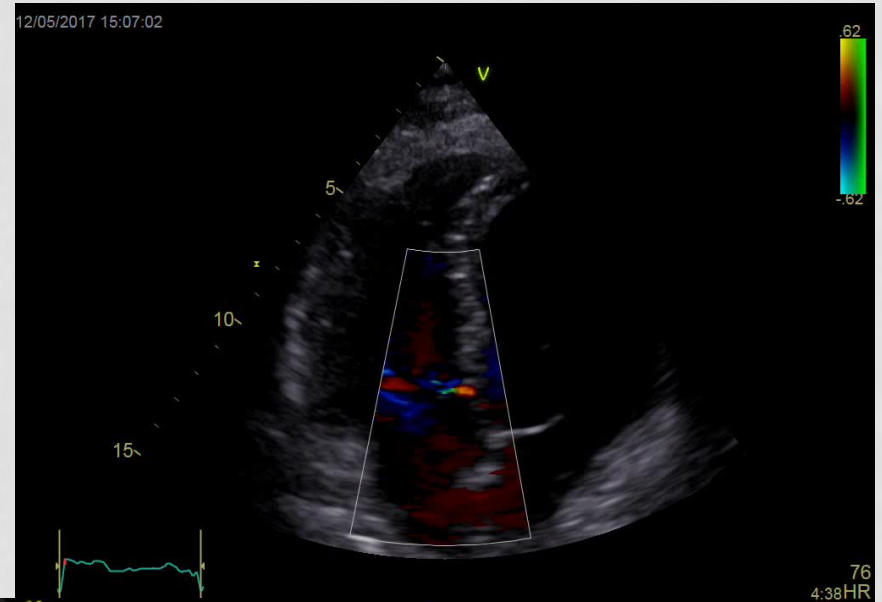
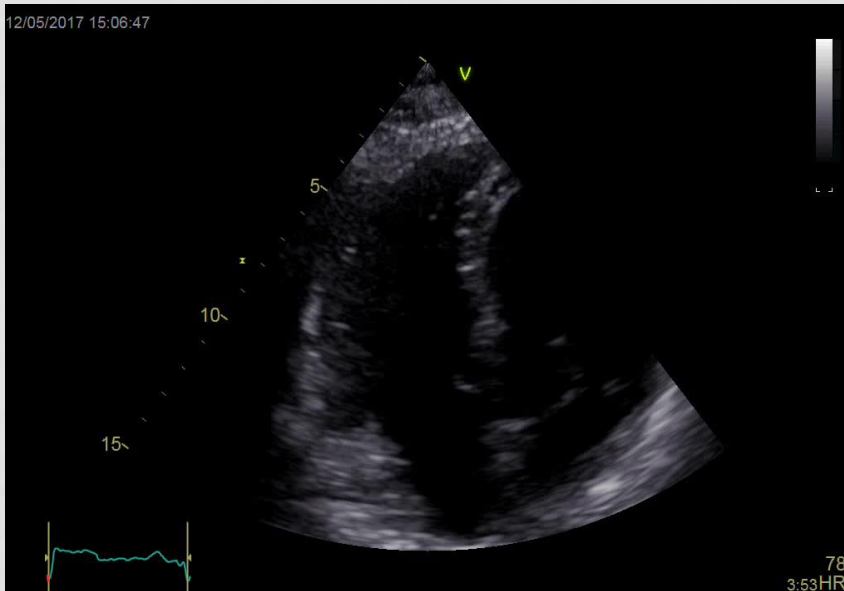
ECG



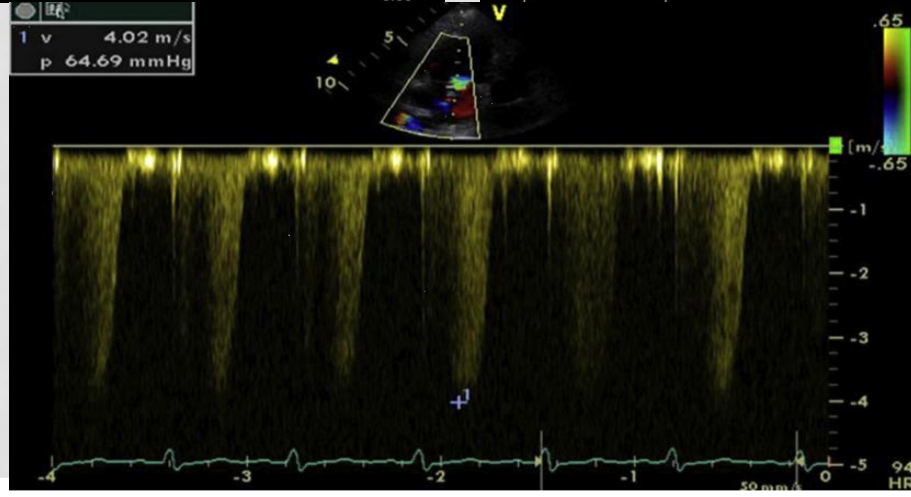
ECHOCARDIOGRAPHY



ECHOCARDIOGRAPHY



1 v 4.02 m/s
p 64.69 mmHg



ΔΙΑΦΟΡΙΚΗ ΔΙΑΓΝΩΣΗ

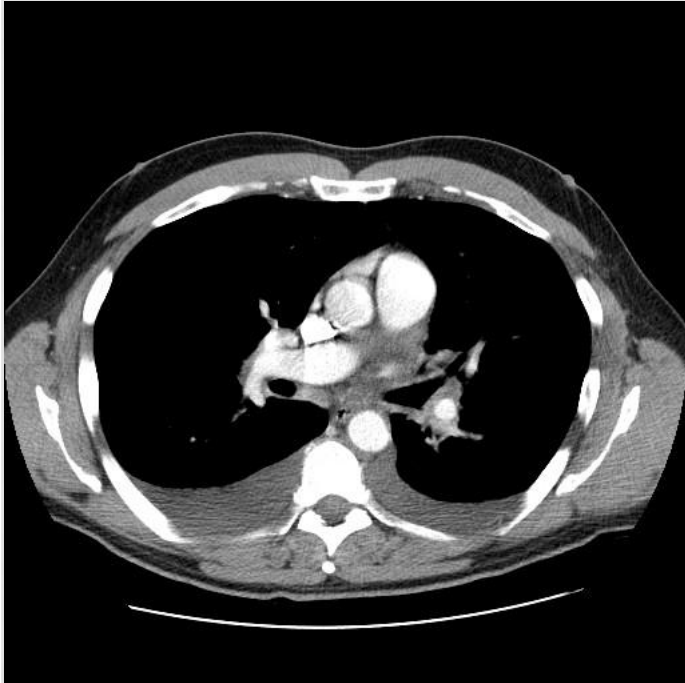
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PVOD ?

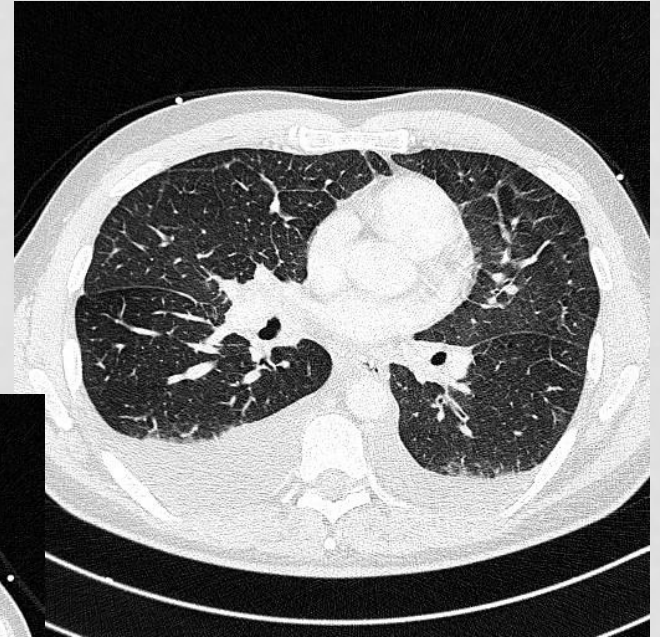
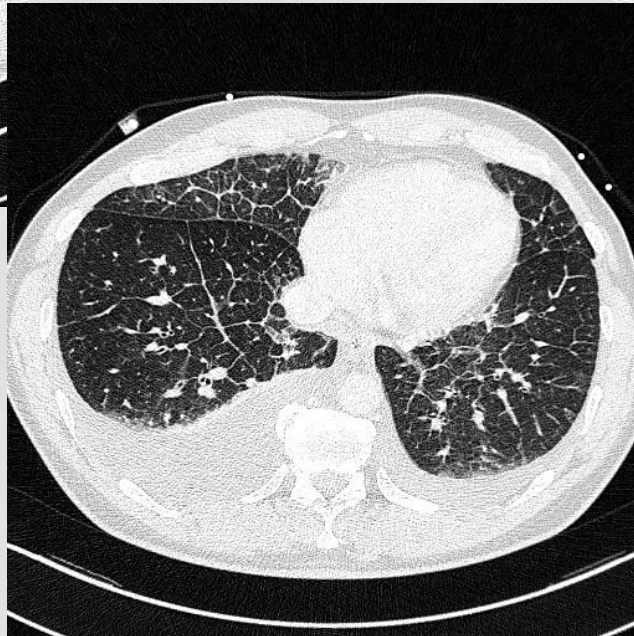
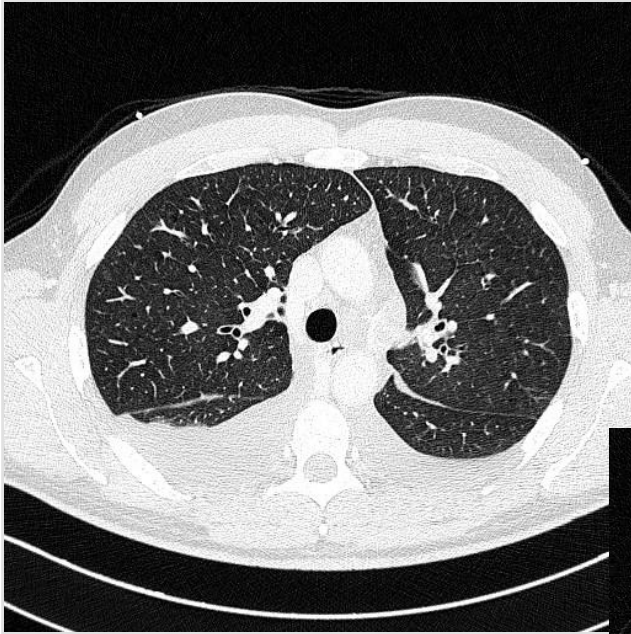
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ACS ?

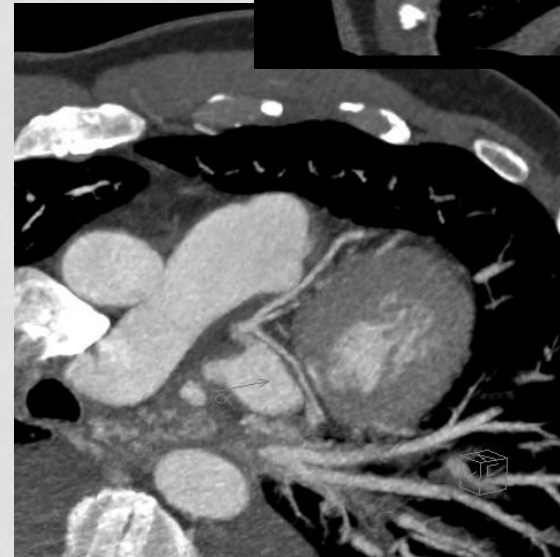
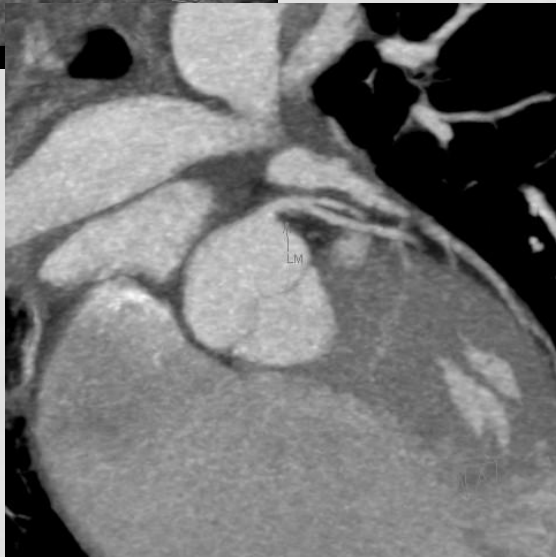
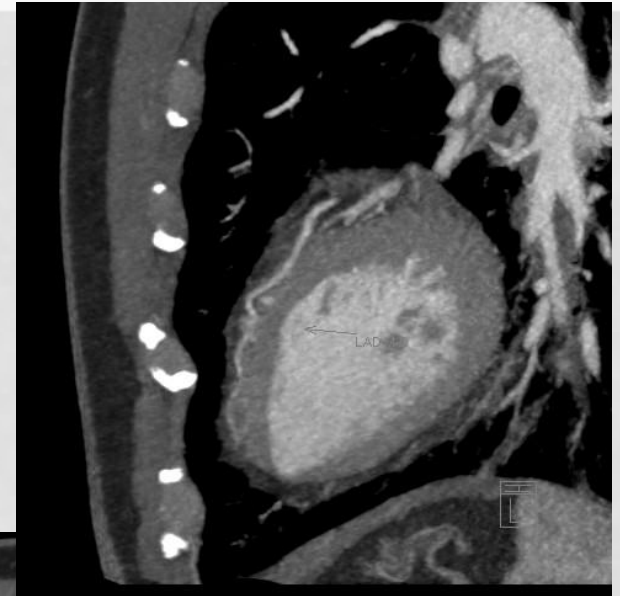
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MSCT CORO



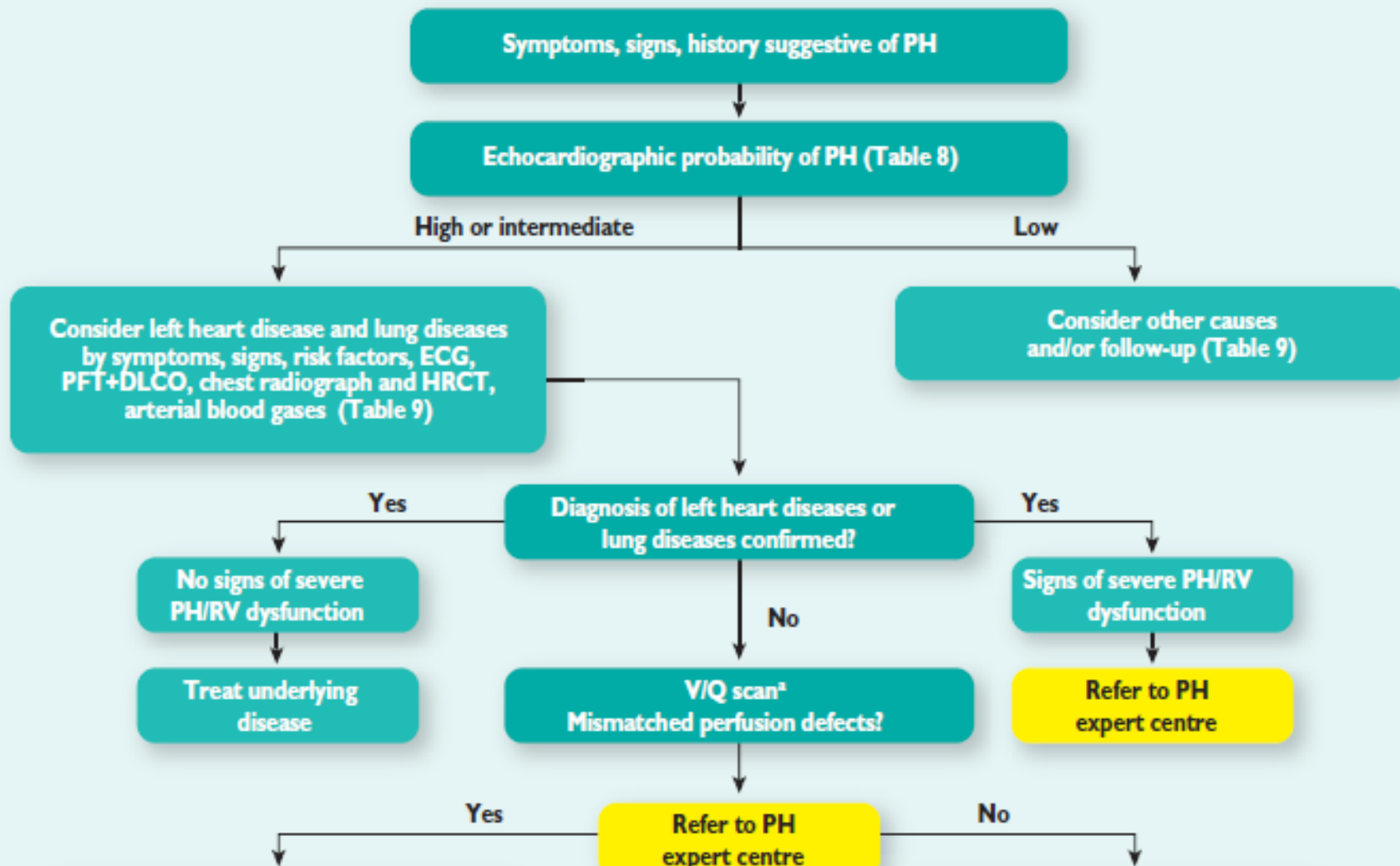
CHEST X-RAY PRE ABLATION



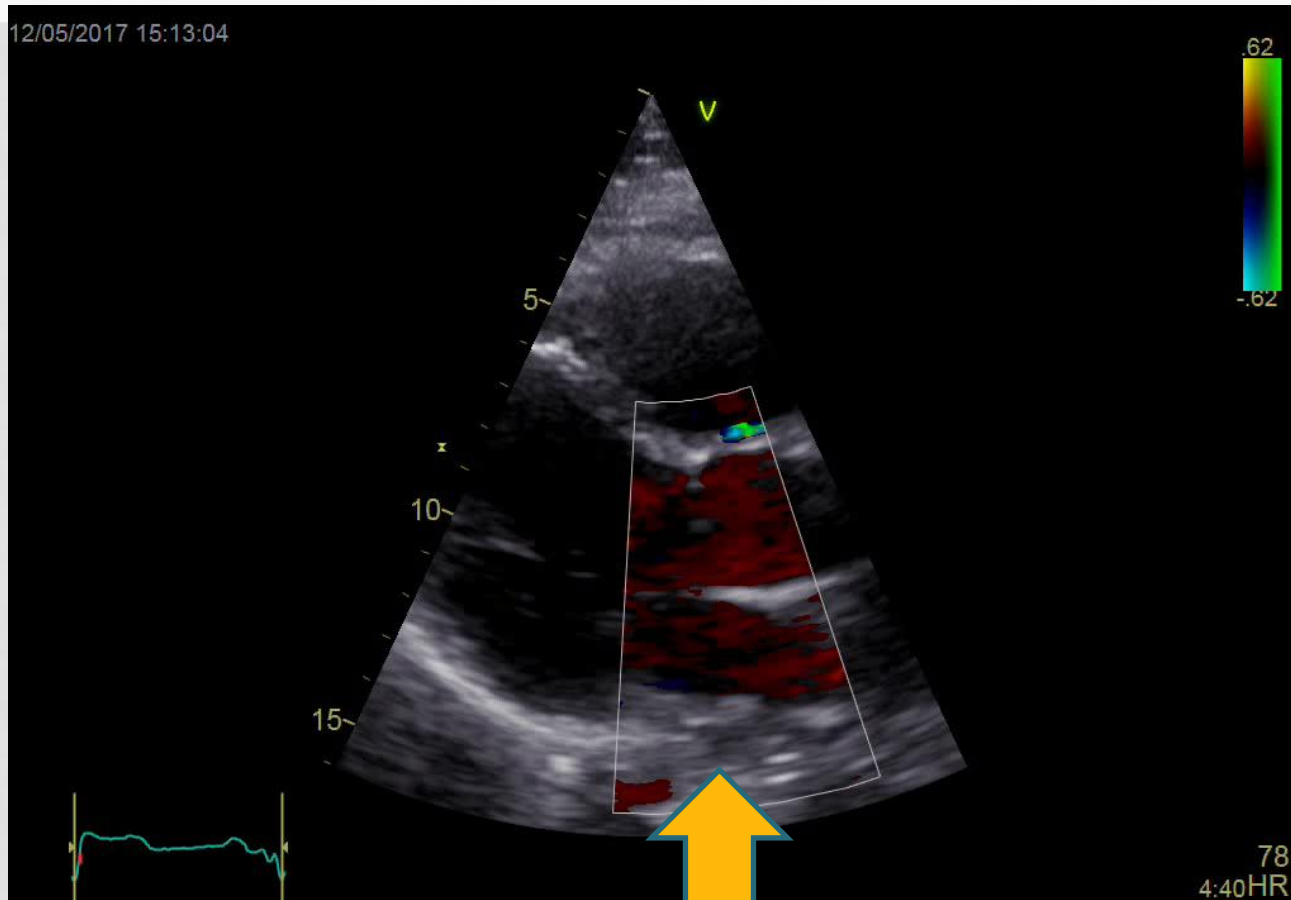
Πνευμονολογικός Έλεγχος: Ήπιο Περιοριστικό σύνδρομο

PULMONARY HYPERTENSION

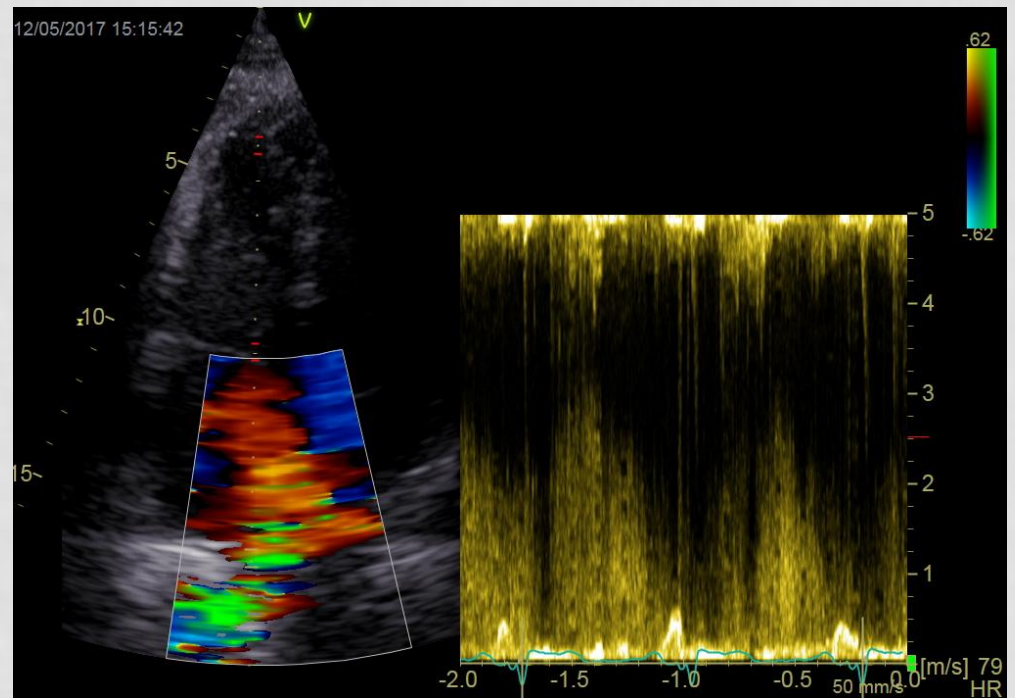
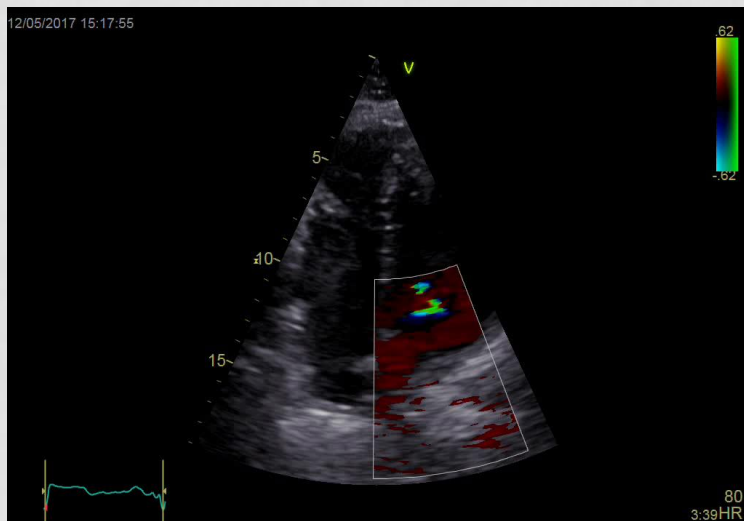
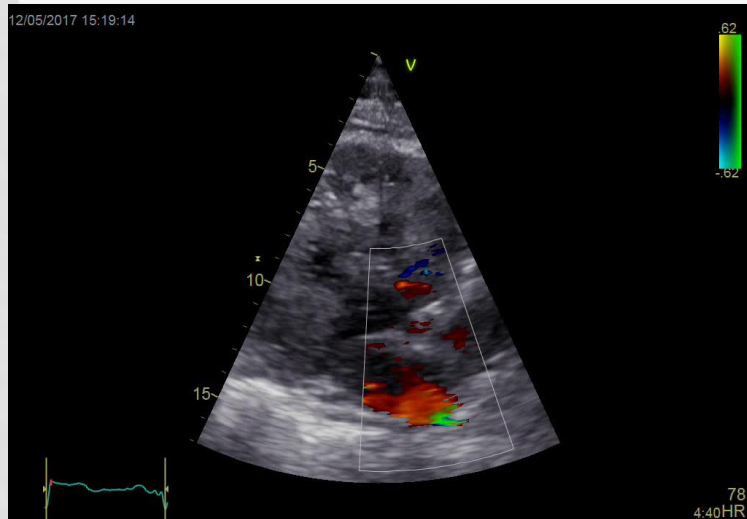
DIAGNOSTIC ALGORITHM



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ECHOCARDIOGRAPHY



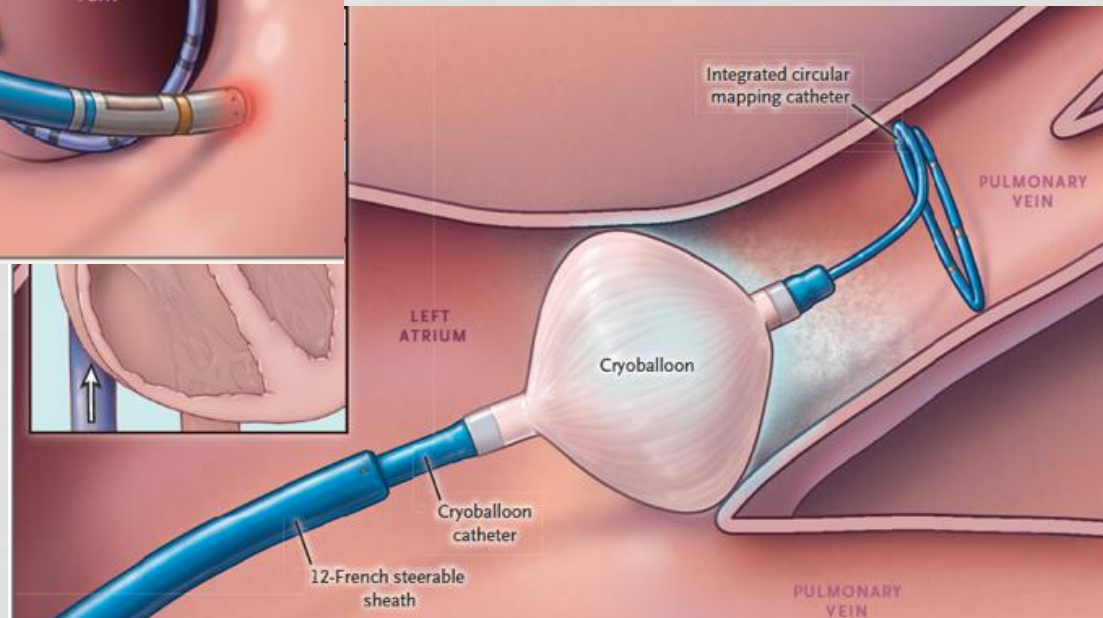
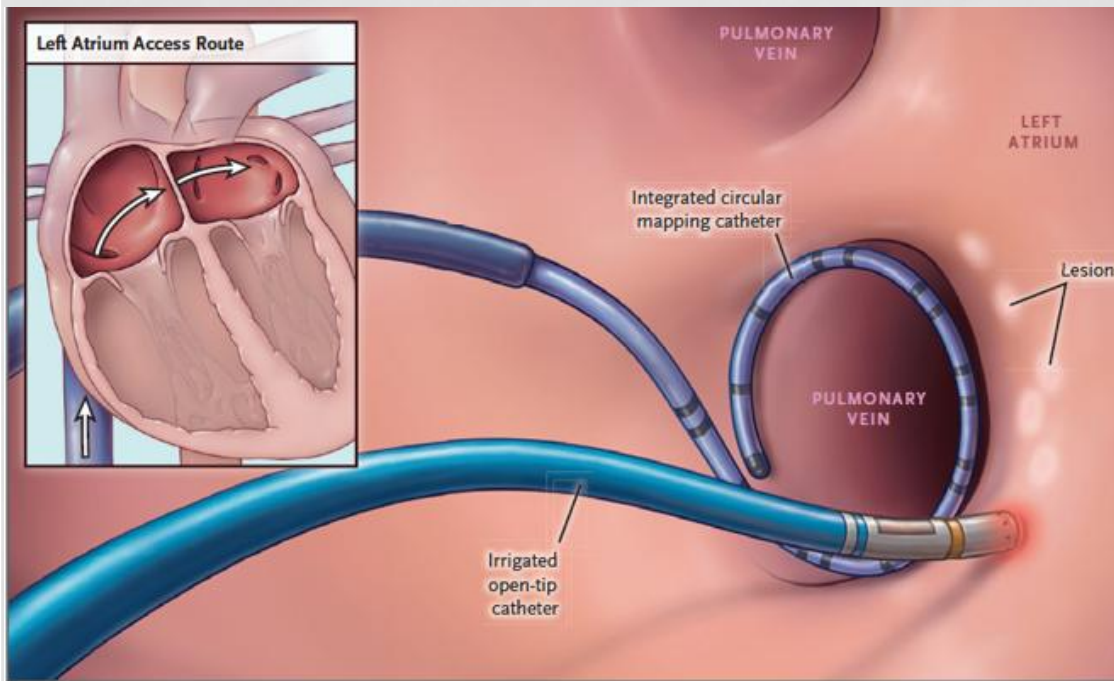
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RADIOFREQUENCY VS CRYOBALLOON

PV ABLATION



COMPLICATIONS WITH CB AND RF ABLATION

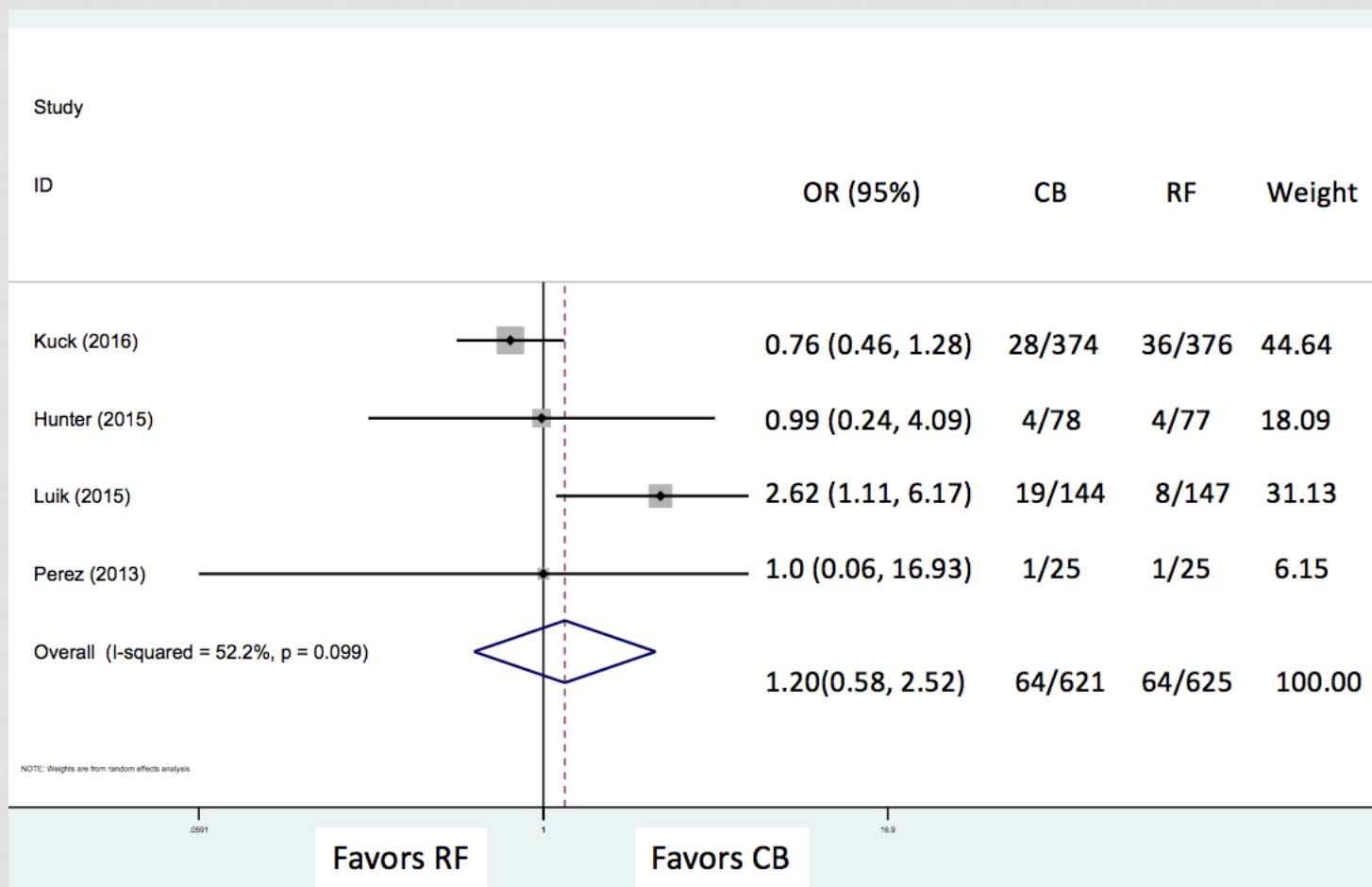
	Fire and ICE Kuck 2016		Cryo vs RF Hunter 2015		FreezeAF Luik 2015		Cor trial Perez 2013		Complications in total		Total
	CB	RF	CB	RF	CB	RF	CB	RF	CB	RF	
	28/374	36/376	4/78	4/77	19/156	8/159	1/25	1/25	53/633 (8.37%)	46/637 (7.22%)	(10,08%)
Cardiac tamponade or pericardial effusion	2	5	0	2	2	3	0	0	4	10	14
atrial-esophageal fistula	0	0	0	0	0	0	0	0	0	0	0
Groin-side complication/ bleeding/AV fistula	7	16	0	1	8	5	0	1	15	23	38
pulmonary and bronchial complication	2	4	0	0	0	0	0	0	2	4	6
PV stenosis	0	0	0	1	0	0	0	0	0	1	1
GI complication	1	2	0	0	0	0	0	0	1	2	3
phrenic palsies <12months	9	0	4	0	9	0	0	0	22	0	22
unresolved phrenic nerve injury at >12m	1	0	0	0	0	0	0	0	1	0	1
cardiac undefined, short	3	0	0	0	0	0	0	0	3	0	3
anxiety	1	0	0	0	0	0	0	0	1	0	1
death (unrelated to procedure)	2	0	0	0	0	0	0	0	2	0	2
local edema	0	1	0	0	0	0	0	0	0	1	1
dyspnoea	1	2	0	0	0	0	0	0	1	2	3
contusion	0	1	0	0	0	0	0	0	0	1	1
CM reaction	0	1	0	0	0	0	0	0	0	1	1
Hematurie	0	1	0	0	0	0	0	0	0	1	1
Hemoptysse	0	0	0	0	0	0	1	0	1	0	1

Kuck KH et al. N Engl J Med. 2016 Jun 9;374(23):2235-45.

Hunter RJ et al. (The Cryo Versus RF Trial). J Cardiovasc Electrophysiol. 2015 Dec;26(12):1307-14.

Luik A et al. Circulation. 2015 Oct 6;132(14):1311-9. Pérez-Villacastín J. et al. Heart Rhythm. 2014 Jan;11(1):8-14.

FOREST PLOT OF COMPLICATIONS WITH CB AND RF ABLATION

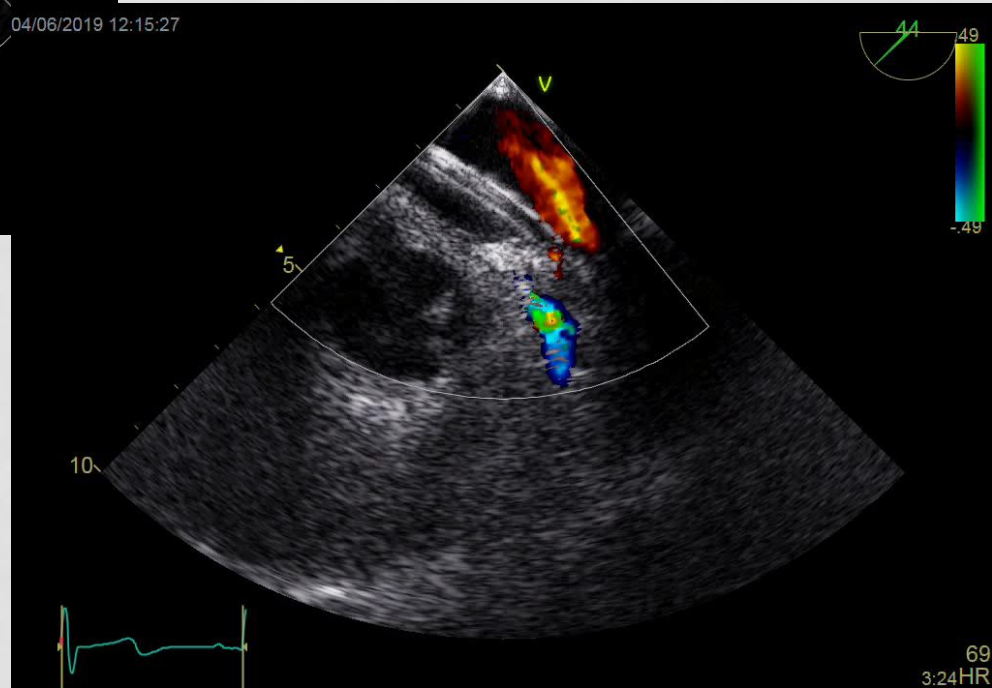
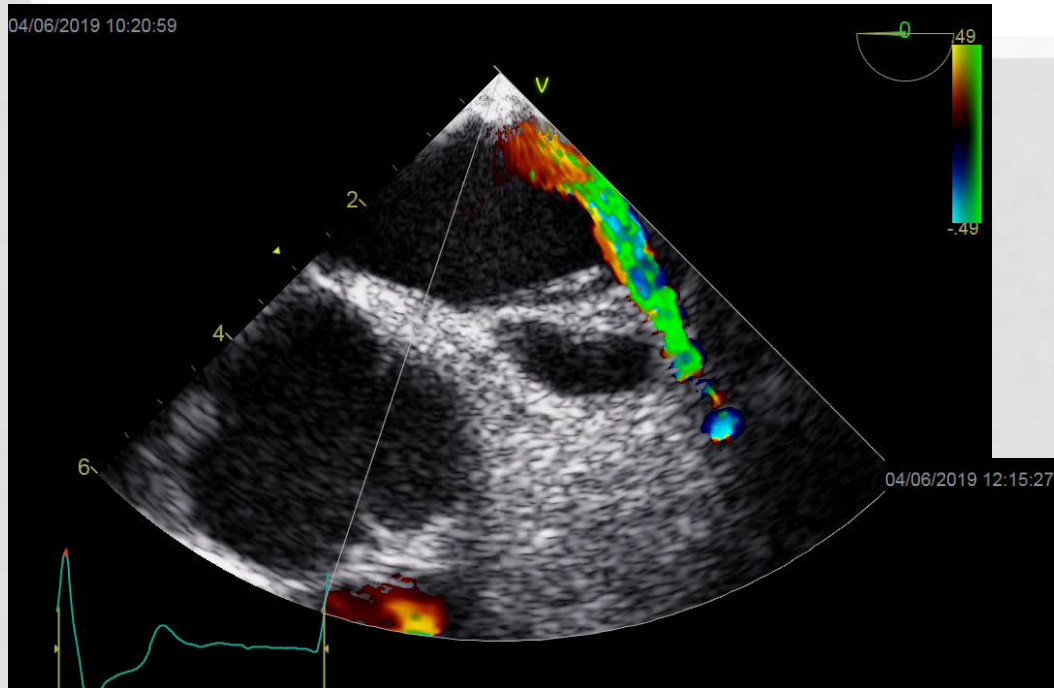


Kuck KH et al. N Engl J Med. 2016 Jun 9;374(23):2235-45.

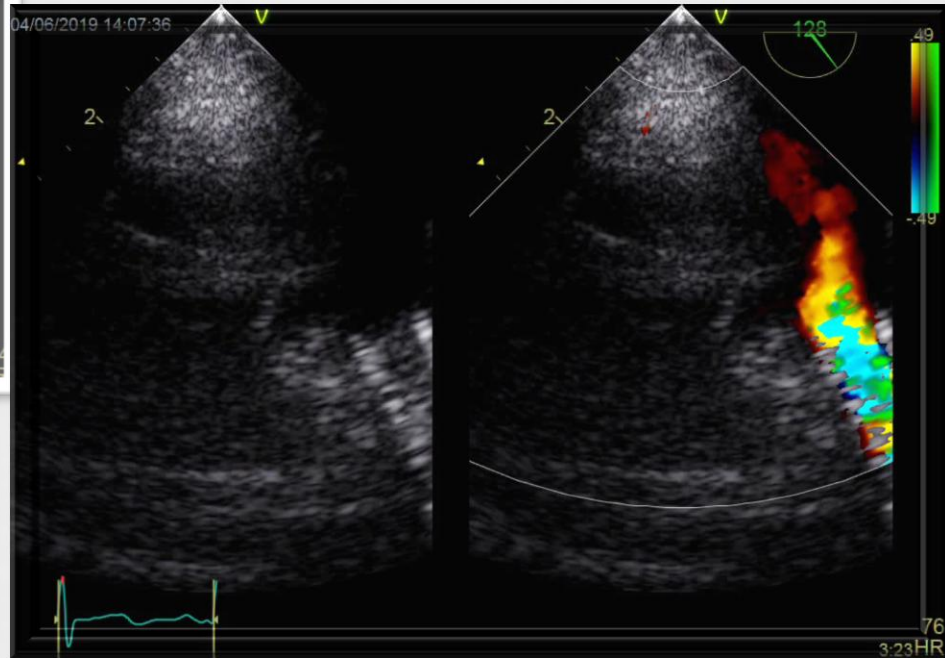
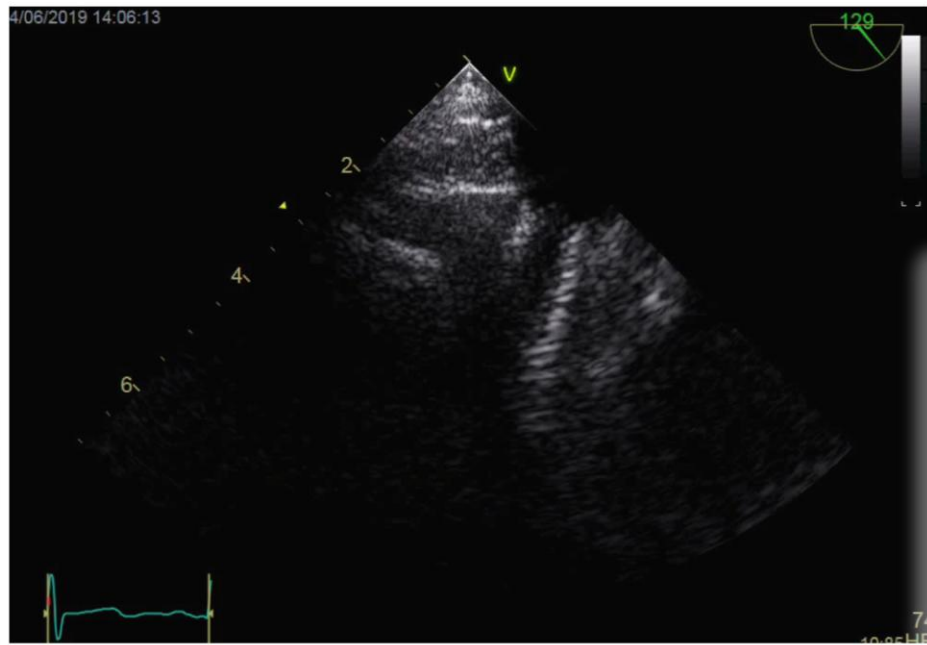
Hunter RJ et al. (The Cryo Versus RF Trial). J Cardiovasc Electrophysiol. 2015 Dec;26(12):1307-14.

Luik A et al. Circulation. 2015 Oct 6;132(14):1311-9. Pérez-Villacastín J. et al. Heart Rhythm. 2014 Jan;11(1):8-14.

IOP TOE



IOP TOE



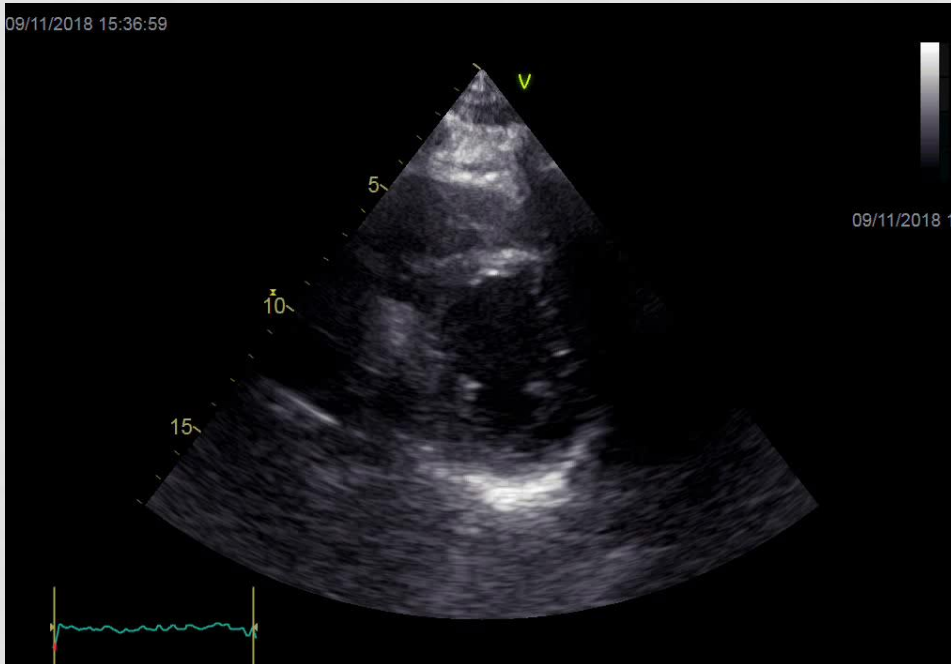
POST OPERATIVE C.T.



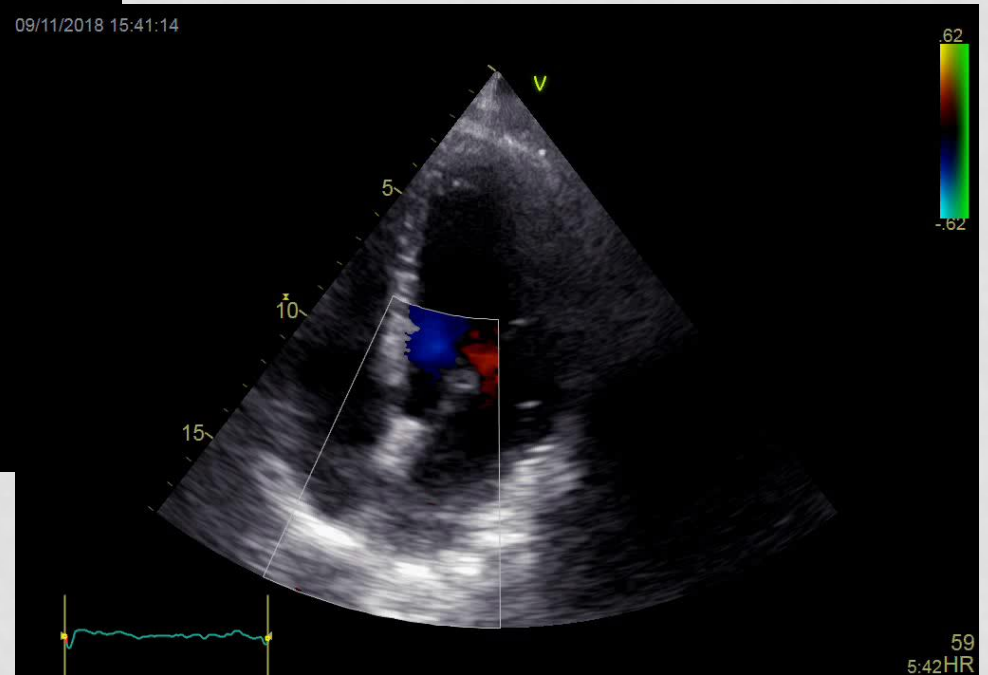
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AN UNUSUAL PRESENTATION OF IATROGENIC PULMONARY HYPERTENSION

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7 Smoking Cessation Support Services at Community Pharmacies in the UK: A Systematic Review A. Peletidis, S. Nabhani-Gehara, R. Kuyyalil	45 Haddad Syndrome A. Tzoufas, E. Karanassios, A.C. Chazalis
16 Advanced Role and Field of Competence of the Physical and Rehabilitation Medicine Specialist in Contemporary Cardiac Rehabilitation J. Papathanasiou, T. Trovø, A.S. Ferreira, D. Tsekoura, H. Elkora, E. Kyriopoulos, E. Riera	LETTERS TO THE EDITOR
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	67 Smoking Cessation and Health Economics D. Tousoulis



- P. Karyofyllis, MD,
- E. Demerouti, MD,
- D. Tsiapras, MD,
- S. Kabanarou, MD
- O. Karapanagiotou, MD,
- I. Mastorakou, MD,
- V. Voudris, MD
- Hell J Cardiol 2019 in press

DIVING REFLEX

- During descent, the external increase in hydrostatic pressure compresses peripheral leg and abdominal veins, and in association with peripheral vasoconstriction initiates a simultaneous delivery of large amounts of blood to the chest areas (blood shift)
- As the drainage of PV was blocked due to PVS, **blood shift in diving reflex led the patient to develop pulmonary oedema** immediately after free-diving.

COMPREHENSIVE CLINICAL CLASSIFICATION OF PULMONARY HYPERTENSION

I. Pulmonary arterial hypertension

- I.1 Idiopathic
- I.2 Heritable
 - I.2.1 BMPR2 mutation
 - I.2.2 Other mutations
- I.3 Drugs and toxins induced
- I.4 Associated with:
 - I.4.1 Connective tissue disease
 - I.4.2 Human immunodeficiency virus (HIV) infection
 - I.4.3 Portal hypertension
 - I.4.4 Congenital heart disease (Table 6)
 - I.4.5 Schistosomiasis

I'. Pulmonary veno-occlusive disease and/or pulmonary capillary haemangiomatosis

- I'.1 Idiopathic
- I'.2 Heritable
 - I'.2.1 EIF2AK4 mutation
 - I'.2.2 Other mutations
- I'.3 Drugs, toxins and radiation induced
- I'.4 Associated with:
 - I'.4.1 Connective tissue disease
 - I'.4.2 HIV infection

I''. Persistent pulmonary hypertension of the newborn

2. Pulmonary hypertension due to left heart disease

- 2.1 Left ventricular systolic dysfunction
- 2.2 Left ventricular diastolic dysfunction
- 2.3 Valvular disease
- 2.4 Congenital / acquired left heart inflow/outflow tract obstruction and congenital cardiomyopathies
- 2.5 Congenital /acquired pulmonary veins stenosis

3. Pulmonary hypertension due to lung diseases and/or hypoxia

- 3.1 Chronic obstructive pulmonary disease
- 3.2 Interstitial lung diseases
- 3.3 Other pulmonary diseases with mixed restrictive and obstructive pattern
- 3.4 Sleep-disordered breathing
- 3.5 Alveolar hypoventilation disorders
- 3.6 Chronic exposure to high altitude
- 3.7 Developmental lung diseases (Web Table III)

4. Chronic thromboembolic pulmonary hypertension and other pulmonary artery obstructions

- 4.1 Chronic thromboembolic pulmonary hypertension
- 4.2 Other pulmonary artery obstructions
 - 4.2.1 Angiosarcoma
 - 4.2.2 Other intravascular tumors
 - 4.2.3 Arteritis
 - 4.2.4 Congenital pulmonary arteries stenoses
 - 4.2.5 Parasites (hydatidosis)

5. Pulmonary hypertension with unclear and/or multifactorial mechanisms

- 5.1 Haematological disorders: chronic haemolytic anaemia, myeloproliferative disorders, splenectomy
- 5.2 Systemic disorders, sarcoidosis, pulmonary histiocytosis, lymphangioleiomyomatosis
- 5.3 Metabolic disorders: glycogen storage disease, Gaucher disease, thyroid disorders
- 5.4 Others: pulmonary tumoral thrombotic microangiopathy, fibrosing mediastinitis, chronic renal failure (with/without dialysis), segmental pulmonary hypertension

2.6 Iatrogenic Pulmonary Vein Stenosis

