

THE HEART IS ON FIRE- WHAT TO DO? Pragmatic approach to pericarditis

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*Disclosures: Advisory Board member for SOBI and Kiniksa







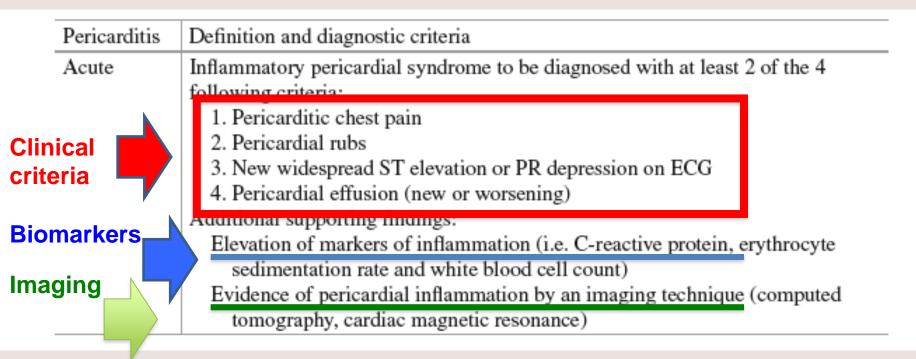
THE HEART IS ON FIRE- PERICARDITIS

Pragmatic approach in 10 questions

- 1. How to make the diagnosis?
- 2. What are the main causes?
- 3. Who should be admitted?
- 4. How to treat pericarditis?
- 5. How to use NSAIDs?
- 6. When to use colchicine?
- 7. How to use corticosteroids?
- 8. When to use alternative therapies?
- 9. What complications can be anticipated?
- 10. What is the risk of constriction?



1. How to make the diagnosis?



<u>**RECURRENT**</u> PERICARDITIS IF A SYMPTOM FREE INTERVAL > 4-6 weeks or

INCESSANT PERICARDITIS IF SYMPTOM FREE TIME < 4-6 weeks

2015 ESC Guidelines

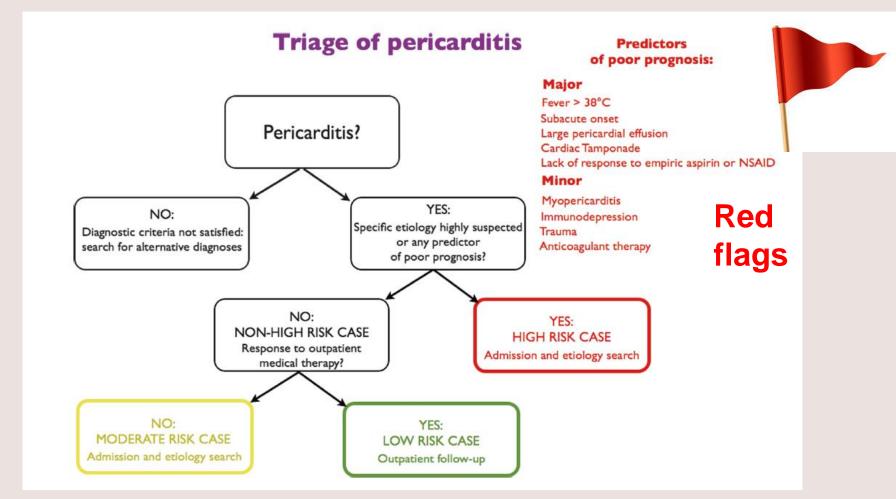


2. What are the main causes?

		Permanyer- Miralda (Spain)	Zayas (Spain)	Imazio (Italy)	Reuter ^a (South Africa)	Gouriet (France)
	Patients (n)	231	100	453	233	933
	Years	1977-1983	1991-1993	1996-2004	1995-2001	2007-2012
	Geographic area	Western Europe	Western Europe	Western Europe	Africa	Western Europe
	Idiopathic	199 (86.0 %)	78 (78.0 %)	377 (83.2 %)	32 (13.7 %)	516 (55.0 %)
	Specific aetiology	32 (14.0 %)	22 (22.0 %)	76 (16.8 %)	201 (86.3 %)	417 (46.0 %)
5-10 ⁹	Neoplastic	13 (5.6 %)	7 (7.0 %)	23 (5.1 %)	22 (9.4 %)	85 (8.9 %)
<5%	Tuberculosis	9 (3.9 %)	4 (4.0 %)	17 (3.8 %)	161 (69.5 %)	(<1 %)
5-20%	4 Autoimmune	4 (1.7 %)	3 (3.0 %)	33 (7.3 %)	12 (5.2 %)	197 (21 %)
<5%	Purulent	2 (0.9 %)	1 (1.0 %)	3 (0.7 %)	5 (2.1 %)	29 (3.0 %)



3. Who should be admitted?



Imazio M. Myopericardial Diseases Springer 2016



4. How to treat pericarditis?

First level tx: Aspirin or NSAID plus colchicine

Second level tx: Corticosteroids plus colchicine

Third level tx: Aspirin/NSAID plus colchicine and Corticosteroids (Triple therapy)

Fourth level tx: Use of alternative drugs (e.g. azathioprine or IVIG or anakinra)

Fifth level tx: Pericardiectomy



5. How to use NSAIDs?

Drug	Usual dosing	Duration	Tapering				
Aspirin	750–1000 mg every 8 h	1–2 weeks	1. Proper dosing and times				
Ibuprofen	600 mg every 8 h	1–2 weeks	2. Add colchicine on top				
			3. Consider tapering				
Colchicine	0.5 mg once (<70 kg) or 0.5 mg BID (≥70 kg)	3 months	Not mandatory other day (<70 in the last week				
Therapy duration is individualized when guided by symptoms and alization: keep attack dose and taper only if asymptomatic and CRP is normalized a recommendati LOEB)							

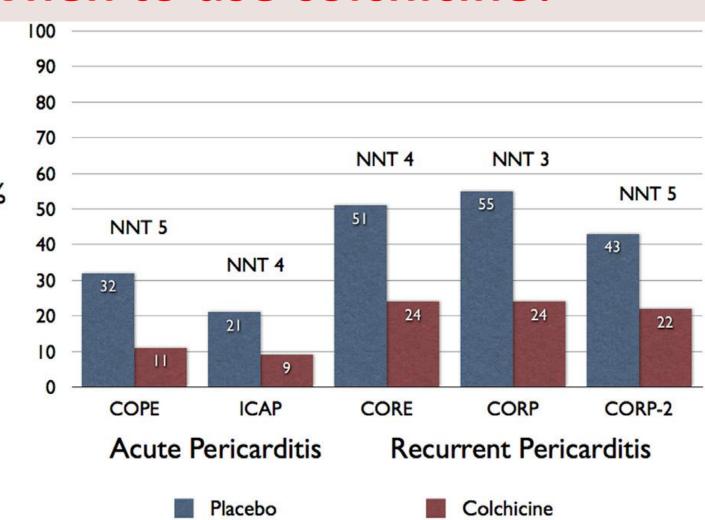


6. When to use colchicine?



Registred indication in Italy from April 2017:

No more off-label





7. How to use corticosteroids?

The 5 indications to corticosteroids in pericarditis

Specific diseases (e.g. rheumatological conditions on steroids, PPS)

As combined therapy (with NSAID/colchicine) for recurrences

Contraindications or failure of ASA/NSAID

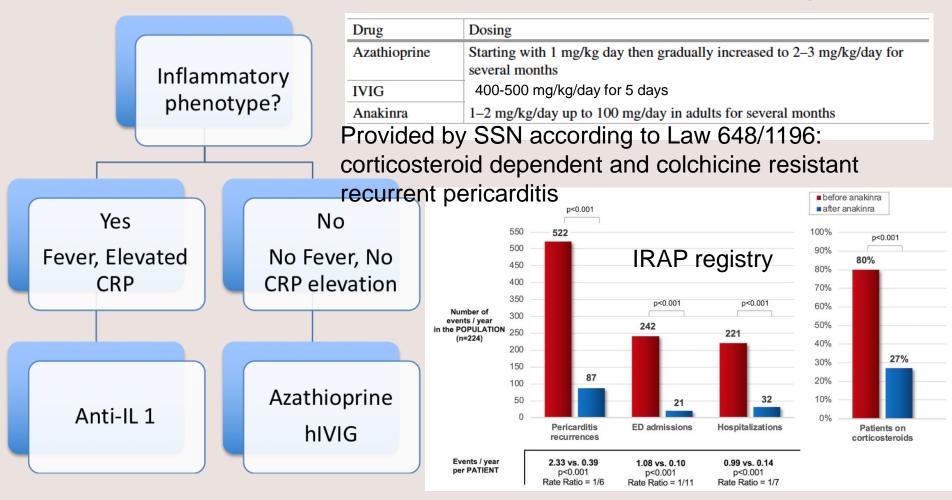
Specific physiological conditions or concomitant diseases (e.g. pregnancy, renal failure)

Concomitant therapies (e.g. oral anticoagulants)

Low to moderate doses (e.g. prednisone 0.2-0.5 mg/kg/day) with slow tapering



8. When to use alternative therapies?



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9. What complications can be anticipated?

- ➤ Recurrences in 20 to 30% of cases (pre-colchicine time) but halved by colchicine
- ➤ Risk of cardiac tamponade very low during follow-up if specific causes excluded (e.g. systemic inflammatory diseases, bacterial and neoplastic etiologies)
- ➤ Risk of constriction related to the etiology and not the number of recurrences (never reported in idiopathic recurrent pericarditis)



10. What is the risk of constriction?



- > 20-30% bacterial etiologies (TB, purulent)
- ➤ 2-5% neoplastic etiology, systemic inflammatory diseases, post-cardiac injury syndromes
- > <1% viral or "idiopathic" pericarditis



The ESC

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European Society of Cardiology > Working Groups > Working Group on Myocardial & Pericardial Diseases

Working Group on Myocardial & Pericardial Diseases

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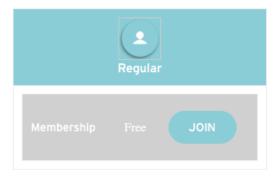
Education

Membership

ESC Working Group on Myocardial and Pericardial Diseases

Join the Working Group today!

All healthcare professionals involved in these Working Group fields are invited to join our network!



Find out more about the application process

Membership is free and for life.

When applying online, you will be requested to login via your My ESC account.

Candidates should

- Be involved in clinical care, diagnosis and management and promote research of heart muscle and pericardial diseases
- Be ready to participate in and promote educational and research activities of the working group

