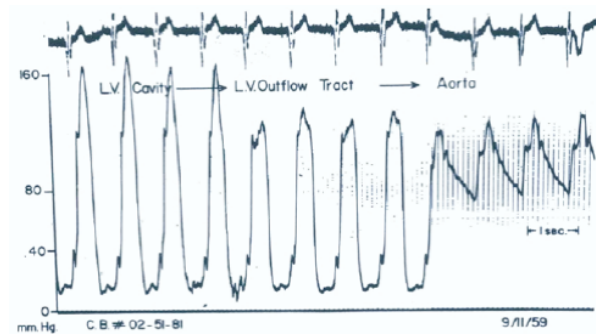


Risultati delle ricerche cliniche effettuate in questi 60 anni nella cardiomiopatia ipertrofica e quelle ancora necessarie





Circulation

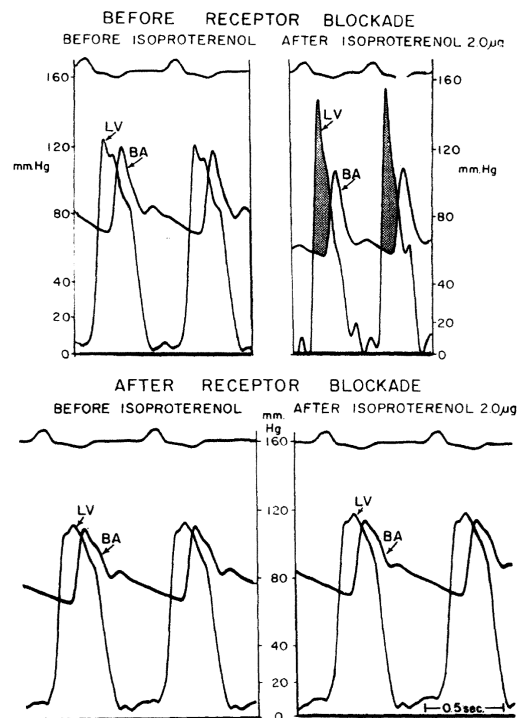
JOURNAL OF THE AMERICAN HEART ASSOCIATION

American Heart Association®
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Circulation 1964, 29:84-98

Effects of Beta Adrenergic Blockade on the Circulation, with Particular Reference to Observations in Patients with Hypertrophic Subaortic Stenosis

DONALD C. HARRISON, EUGENE BRAUNWALD, GERALD GLICK, DEAN T. MASON, CHARLES A. CHIDSEY and JOHN ROSS, JR.



Il **Nethalide** (noto anche come **Pronethalolo** o con il nome commerciale **Alderlin**) è stato uno dei primi farmaci **beta-bloccanti** non selettivi ad essere sintetizzato. Sviluppato nei primi anni '60 dal pioniere James Black, fu il primo farmaco di questa classe ad entrare in uso clinico per il trattamento di angina e aritmie. Tuttavia fu ritirato precocemente per lo scarso profilo di sicurezza, come anche successivamente il **Practololo**.

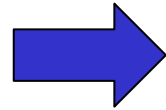
Il **Propanololo** dimostrò invece un profilo di sicurezza ottimale ed è ancora in uso.





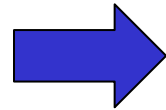
HCM is a PHENOTYPE

Cut off value LV wall thickness ≥ 15 mm in any LV segment that is not explained solely by loading conditions (ESC 2023)



Prevalence in Adults
1:500 (2 per ‰)

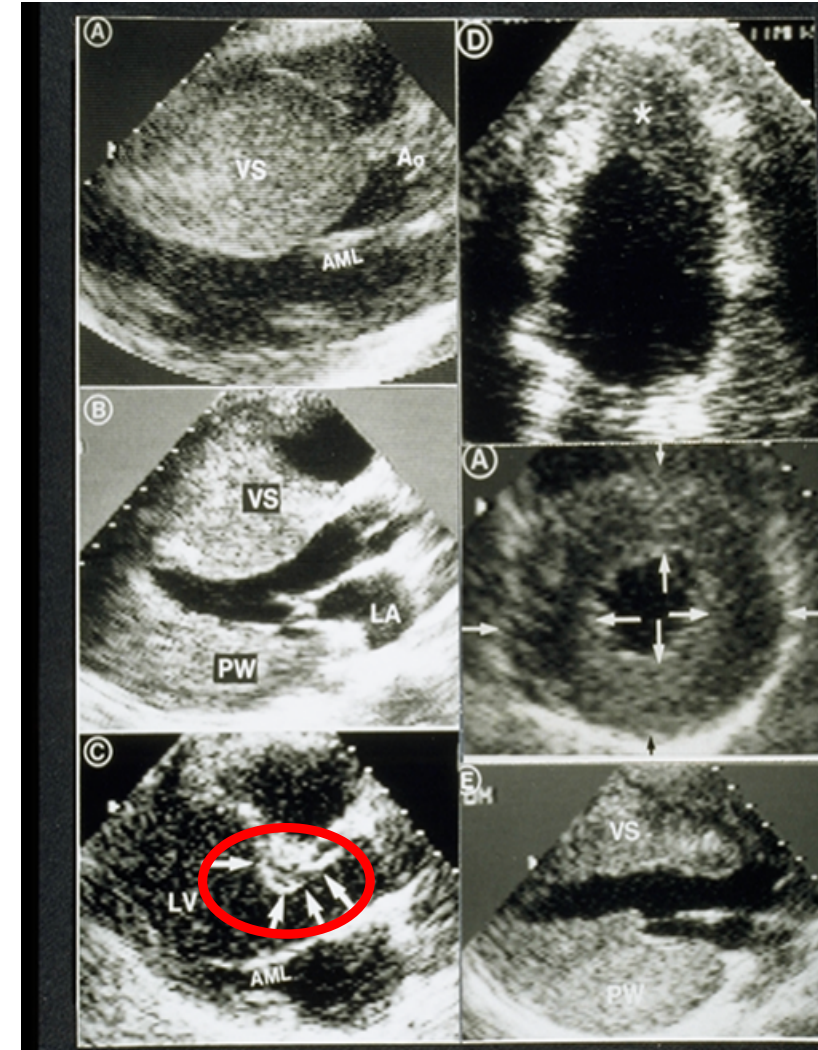
Family members ≥ 13 mm



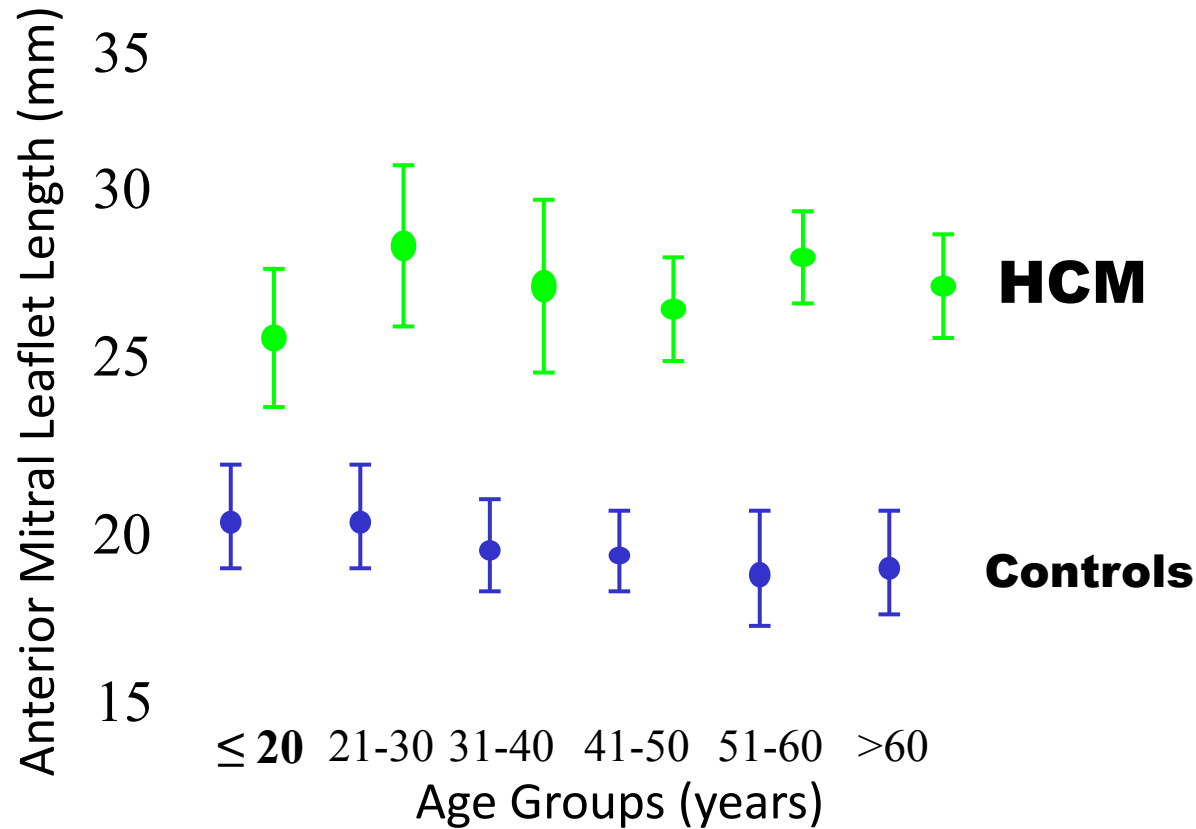
Prevalence in Adults
1:200 (5 per ‰)

Heterogeneous

Variable (Dynamic)



Aumentata lunghezza del lembo anteriore mitralico per classi di età



Maron MS et al. Circulation 2011

Attacco anomalo del muscolo papillare del muscolo papillare



L'ostruzione all'efflusso del ventricolo sinistro è una condizione **VARIABILE** ,
che può aggravarsi o migliorare a seconda di alcune condizioni :



- Pasti abbondanti
(pasta, pizza, etc)



- Sforzi importanti
 - sollevamento pesi
 - esercizio fisico

- **Disidratazione**



- Farmaci: Diuretici, sartani

Hypertrophic Cardiomyopathy Is Predominantly a Disease
of Left Ventricular Outflow Tract Obstruction

Martin S. Maron, MD; Jacopo Olivetto, MD; Andrey G. Zenovich, MSc; Mark S. Link, MD;
Natesa G. Pandian, MD; Jeffery T. Kuvin, MD; Stefano Nistri, MD; Franco Cecchi, MD;
James F. Heikman, MD; Barry J. Maron, MD

Circulation 2006

- CMI ostruttiva provocabile (latente):
- 1. manovra di Valsalva
 - 2. dopo pasto carboidrati
 - 3. Eco da sforzo su pedana o cicloergometro

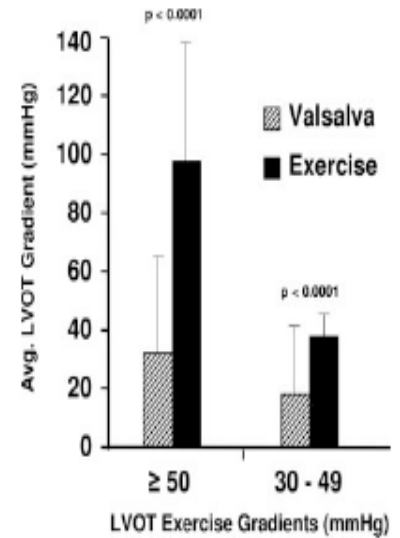
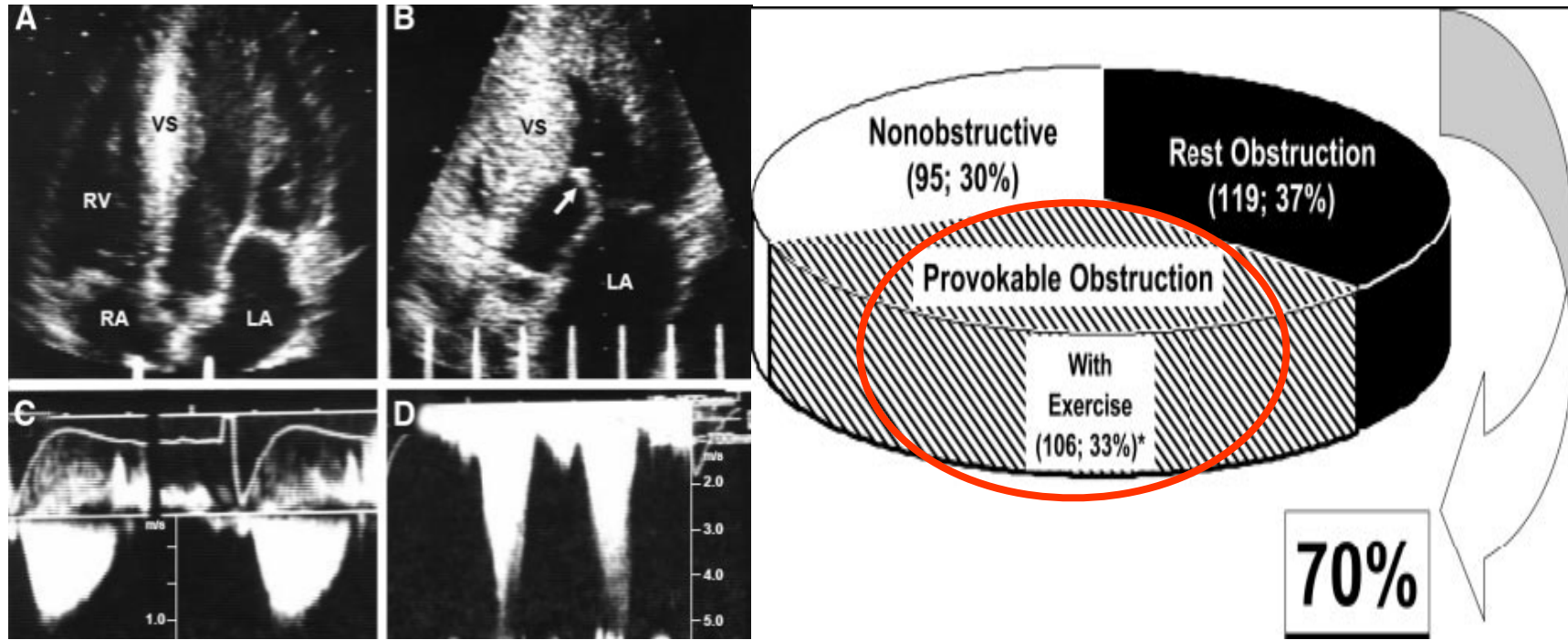


Figure 4. Comparison between LV outflow tract (LVOT) gradients (≥30 mm Hg) provoked with exercise and with Valsalva maneuver. Valsalva significantly underestimates gradients vs those provoked with exercise. Avg indicates average.



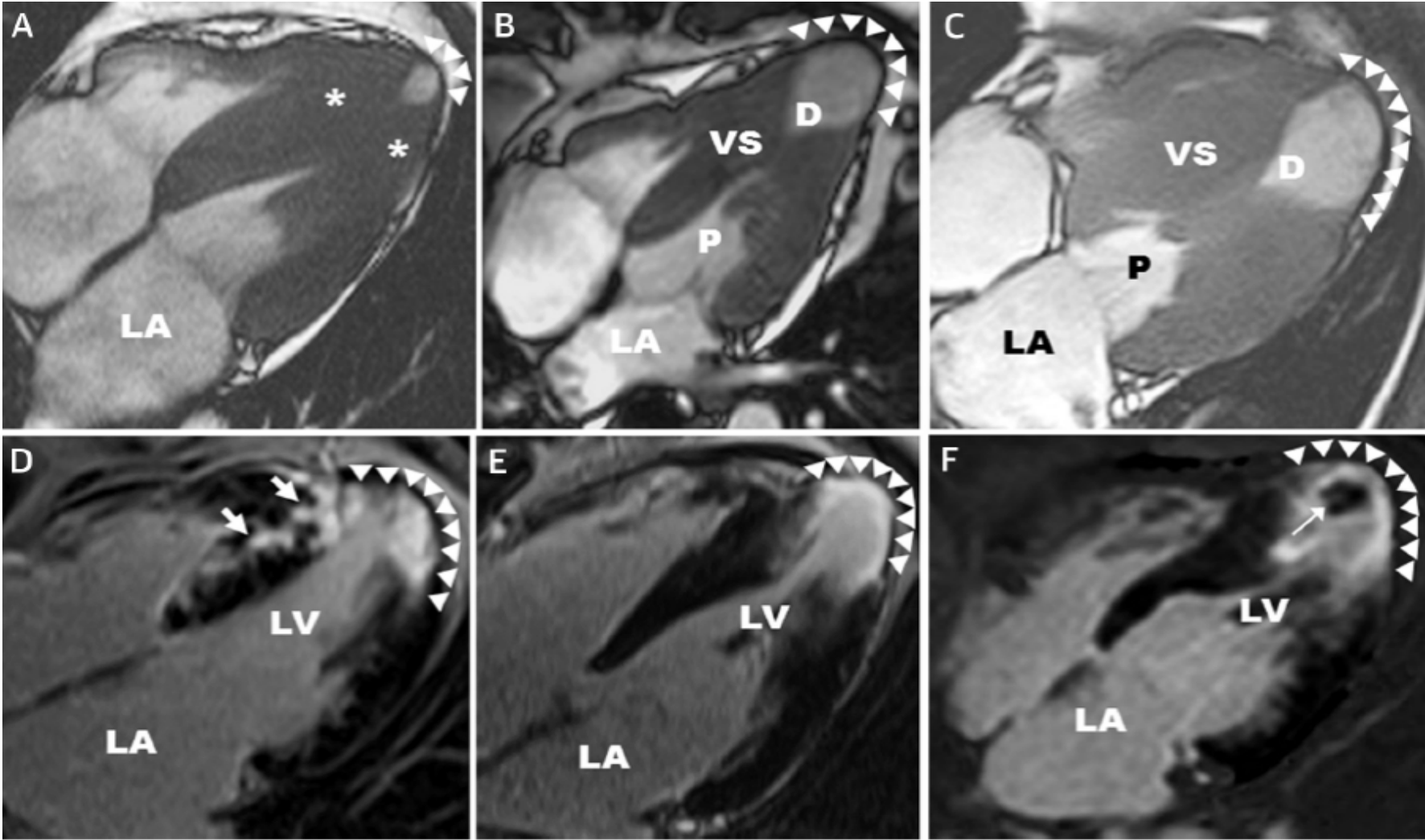
Hypertrophic Cardiomyopathy With Left Ventricular Apical Aneurysm

Implications for Risk Stratification and Management

Ethan J. Rowin, MD,^a Barry J. Maron, MD,^a Tammy S. Haas, RN,^b Ross F. Garberich, MS,^b Weijia Wang, MD,^a
Mark S. Link, MD,^a Martin S. Maron, MD^a

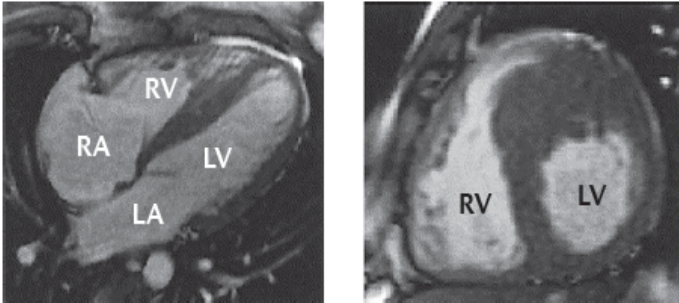
JACC 2017

- **Trombosi
apicale**
- **TV
sostenuta
monomorfa**



Heterogeneous Variable (Dynamic)

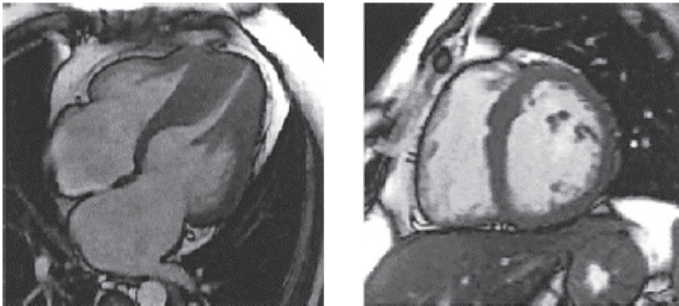
a Asymmetrical septal hypertrophy



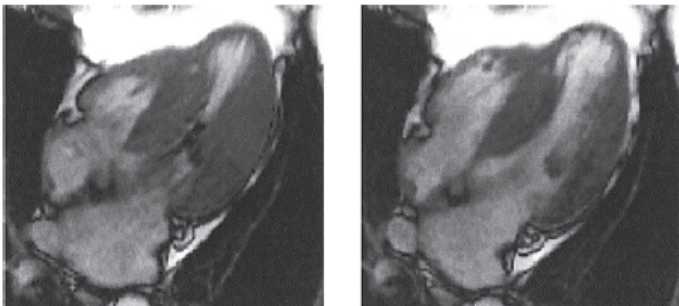
d Biventricular hypertrophic



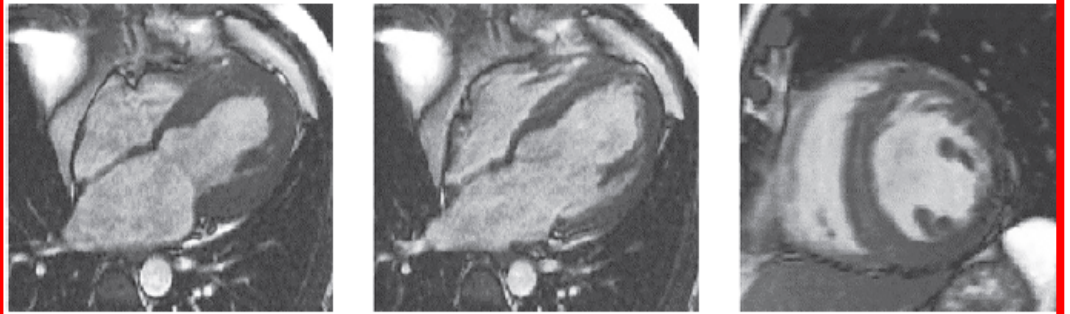
b Apical hypertrophy



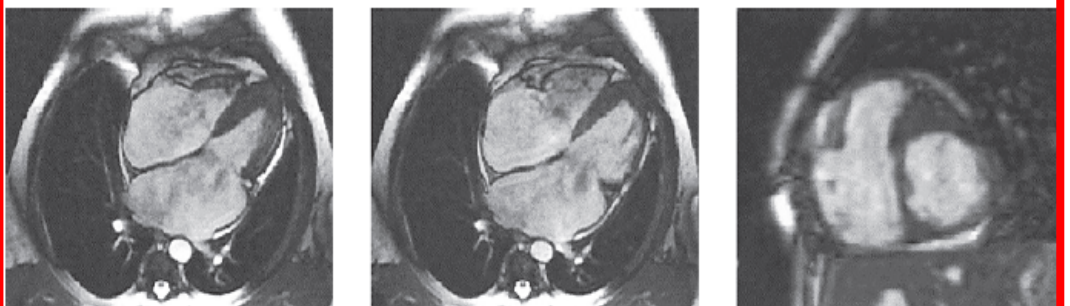
c Midcavity obstruction



e 'End-stage' dilatation



f Restrictive cardiomyopathy



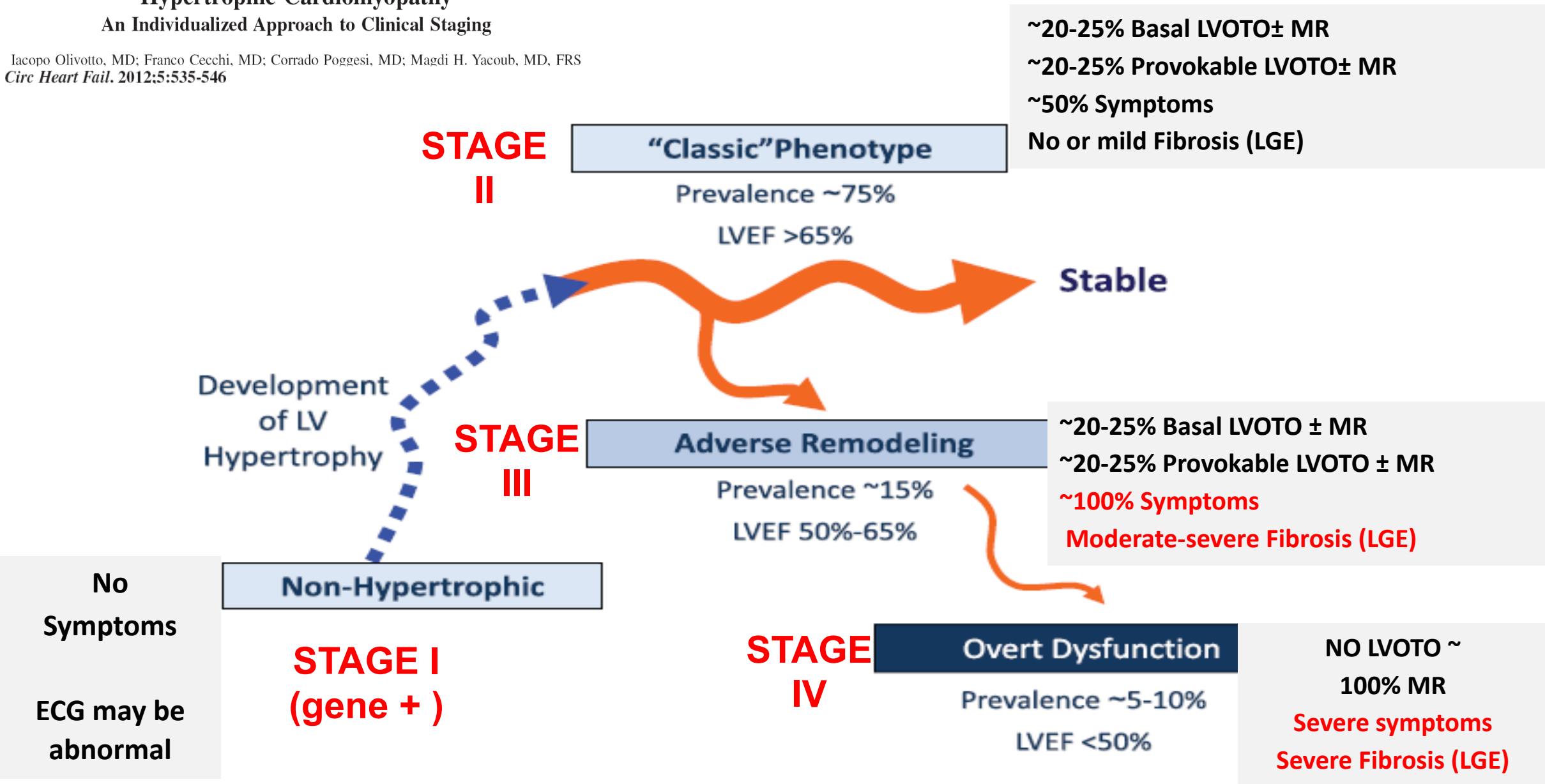
HCM

PATIENTS JOURNEY

Patterns of Disease Progression in Hypertrophic Cardiomyopathy

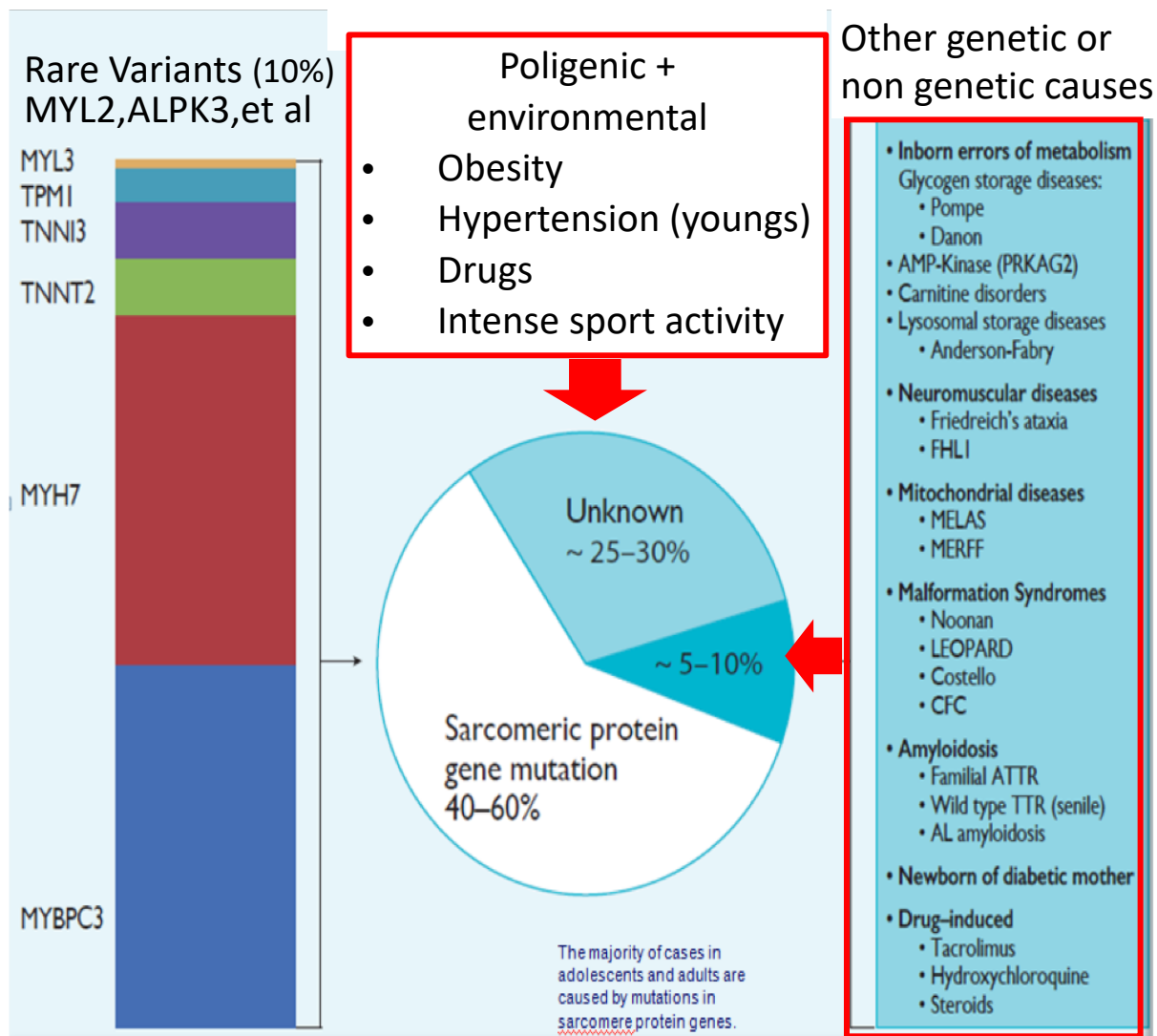
An Individualized Approach to Clinical Staging

Iacopo Olivotto, MD; Franco Cecchi, MD; Corrado Poggesi, MD; Magdi H. Yacoub, MD, FRS
Circ Heart Fail. 2012;5:535-546



HCM PHENOTYPE

Sarcomeric versus non sarcomeric disease

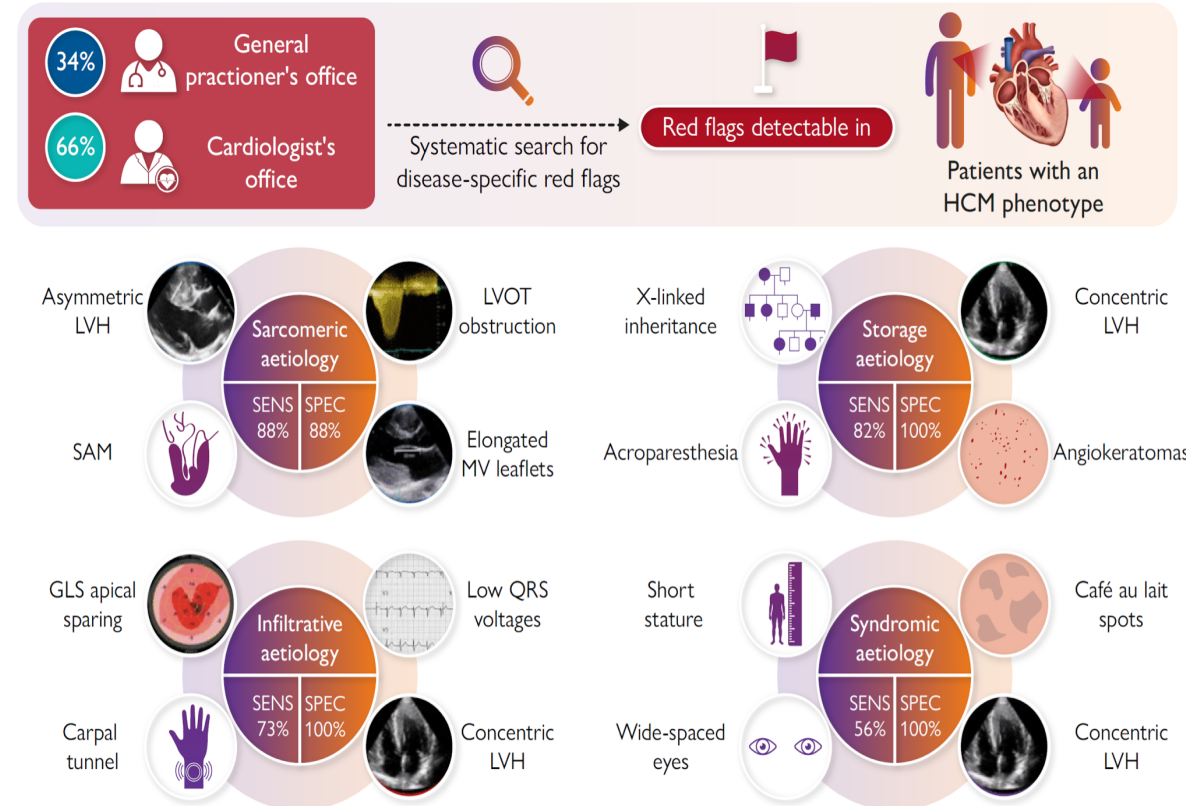


Red flag approach

Hypertrophic cardiomyopathy: prevalence of disease-specific red flags

Niccolò Maurizi^{1,2,*}, Emanuele Monda³, Elena Biagini⁴, Ella Field^{5,6}, et al.

European Heart Journal (2025)



HCM

TREATMENT OPTIONS

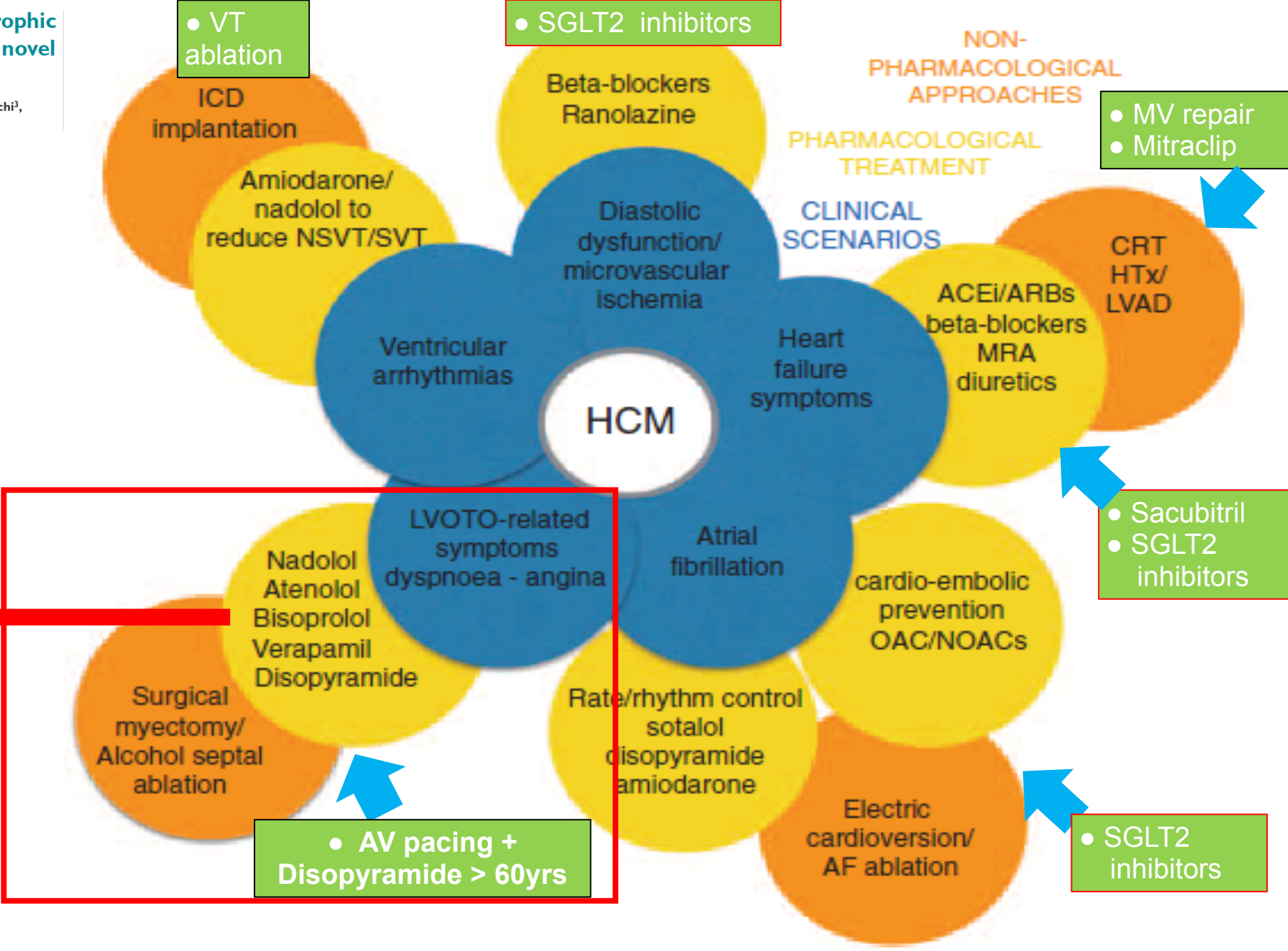
Pharmacological treatment of hypertrophic cardiomyopathy: current practice and novel perspectives

Enrico Ammirati^{1*}, Rachele Contri², Raffaele Coppini³, Franco Cecchi³, Maria Frigerio¹, and Iacopo Olivetto^{3*}
European Journal of Heart Failure (2016)

Therapeutic armamentarium in 2026

Myosin Inhibitors
Mavacamten
Aficamten

Nadolol
Disopyramide
or
Nadolol &
Disopyramide



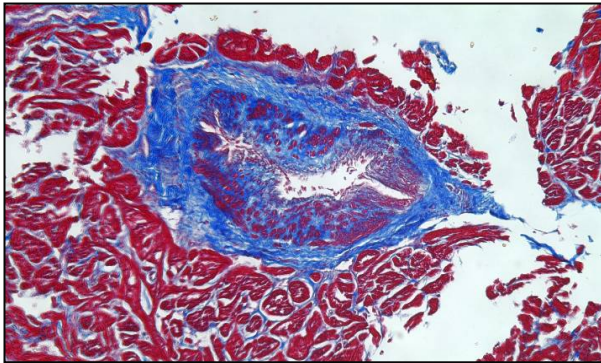
HCM: WHAT ARE WE STILL MISSING ?

HCM: WHAT ARE WE STILL MISSING ? NEXT STEPS

ORIGINAL ARTICLE

Coronary Microvascular Dysfunction and Prognosis in Hypertrophic Cardiomyopathy

Franco Cecchi, M.D., Iacopo Olivotto, M.D., Roberto Gistri, M.D.,
Roberto Lorenzoni, M.D., Giampaolo Chiriatti, M.D., and Paolo G. Camici, M.D.



- WHY CARDIAC ARREST OCCUR
- HOW TO BETTER IDENTIFY HIGH RISK PTS
- ANY OPTION BEYOND ICD ?
- HOW TO PREVENT MYOCARDIAL FIBROSIS ?
- THE ROLE OF
 - GENE VARIANTS (e.g. VOUS)
 - SNP
 - ENVIRONMENT
- THE ROLE OF GENE THERAPY

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Relevance of Coronary Microvascular Flow Impairment to Long-Term Remodeling and Systolic Dysfunction in Hypertrophic Cardiomyopathy

Iacopo Olivotto, MD,* Franco Cecchi, MD,* Roberto Gistri, MD,* Roberto Lorenzoni, MD,†
Giampaolo Chiriatti, MD,‡ Francesca Girolami, BSc,§ Francesca Torricelli, BSc,§
Paolo G. Camici, MD, FACC, FRCP||

Florence, Lucca, Pescia, and Pisa, Italy; and London, England

2023 ESC Guidelines for the management of cardiomyopathies

Developed by the task force on the management of cardiomyopathies of the European Society of Cardiology (ESC)

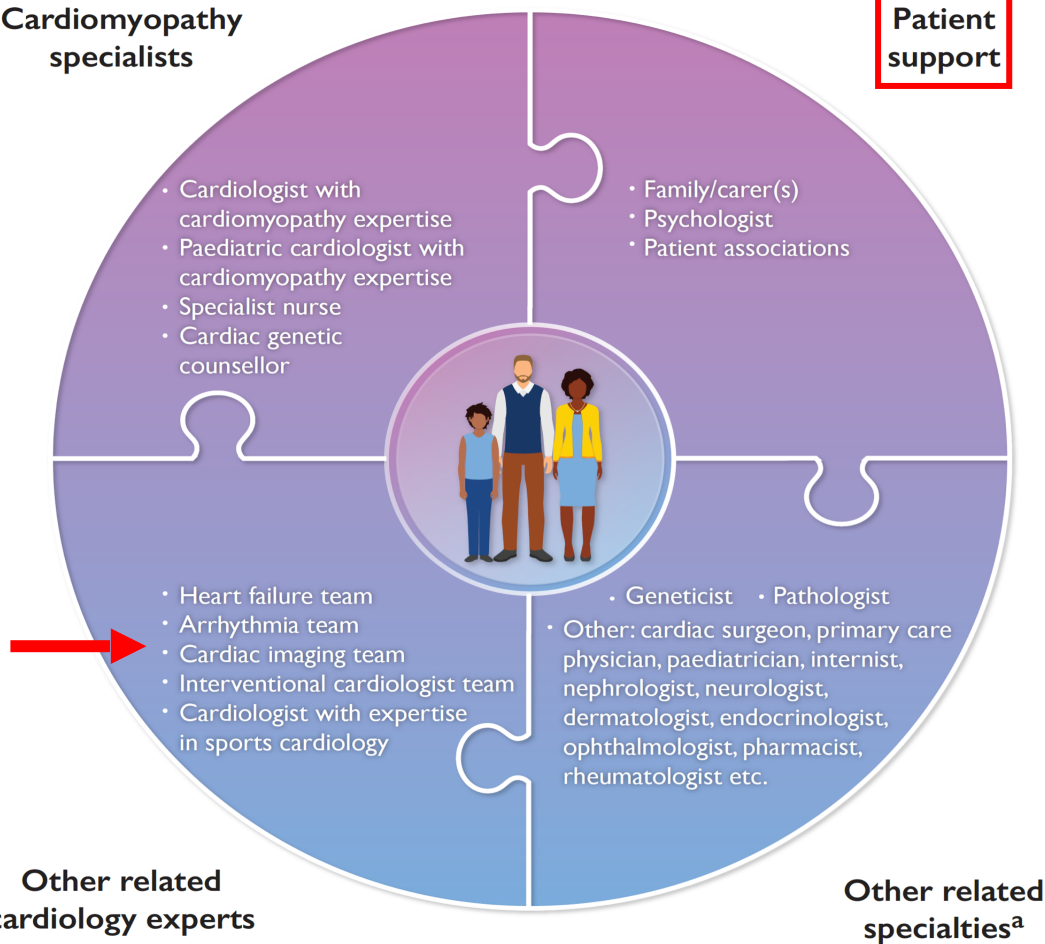
Authors/Task Force Members: Elena Arbelo [✉]*, (Chairperson) (Spain), Alexandros Protonotarios [✉]*, (Task Force Co-ordinator) (United Kingdom), Juan R. Gimeno [✉]*, (Task Force Co-ordinator) (Spain)

European Heart Journal (2023) 00, 1–124

**MULTIDISCIPLINARY
HCM CENTERS**

Cardiomyopathy
specialists

Patient
support



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ITALIANA CARDIOMIOPATIE**

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AICARM APS “Servizio «Cuori in ascolto»”

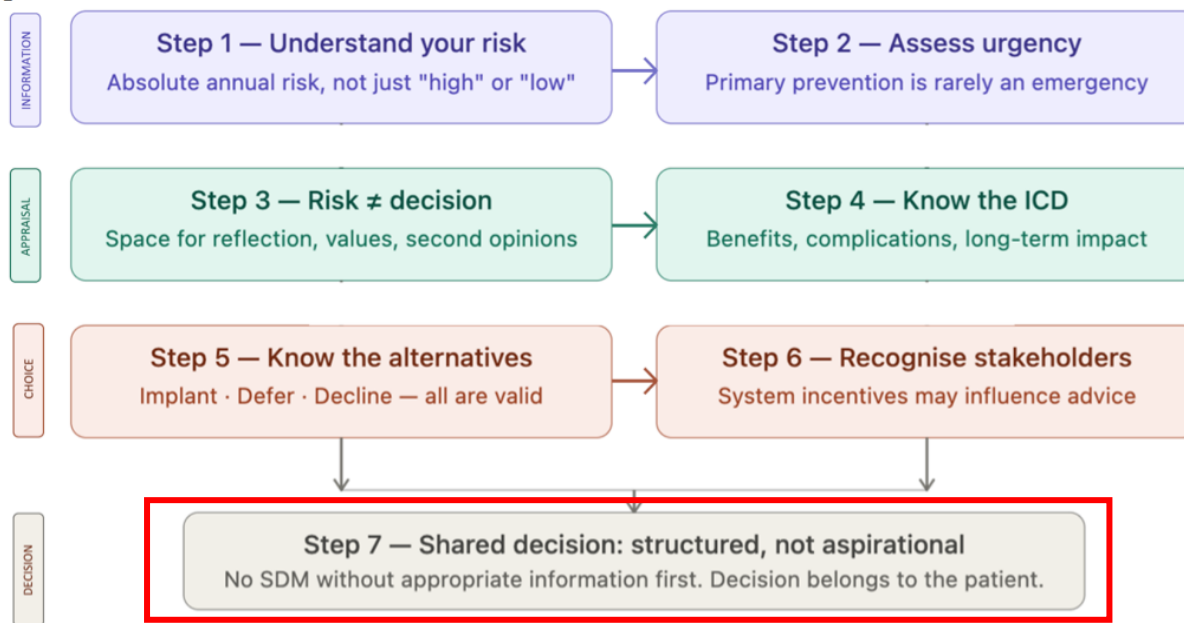
Chiama



055 06 20 178

- Dal 2022, oltre 650 pazienti o familiari hanno utilizzato il servizio di sostegno ai pazienti con Cardiomiopatia, prestato telefonicamente da volontari esperti
- Gli utenti di Cuori in Ascolto possono ottenere sostegno psicologico e confrontarsi con altri pazienti in merito alle proprie esperienze di malattia e percorso terapeutico

A



Global Spotlights

European Heart Journal (2026) 00, 1–3
<https://doi.org/10.1093/eurheartj/ehag412>

Assessing the need for cardioverter defibrillator implantation in hypertrophic cardiomyopathy: patient association's perspectives

Niccolò Maurizi^{1,2,3,*}, Iacopo Olivetto^{1,4,5}, and Franco Cecchi³; on behalf of AICARM-HCM Patient Foundation

B



The communication gap: what physicians say, what patients hear, what should be said

Physician framing	Patient perception	How to convey it
"High / intermediate / low risk" (relative to population)	"This could happen to me at any time"	Give explicit absolute annual risk e.g. "<1% per year" + visual aid
"Life-saving therapy" (ICD benefit framing)	"Complete protection from death"	Clarify risk reduction, not risk elimination
Complications "listed as rare events"	Underestimated / not fully internalised	Discuss lived experience, cumulative long-term burden
Urgency implied / prompt action needed	"This is an emergency — I must decide now"	Distinguish urgent (2° prevention) vs elective (1° prevention)
"ICD vs no ICD" (binary framing)	Fear of choosing "no protection"	Explicitly present 3 options: implant · defer · decline
Focus on short-term prevention	Lifelong consequences not fully considered	Frame decision over decades, especially in the young
Patient values as secondary consideration	Values unclear / not elicited	Elicit preferences early; document them explicitly

aicarm

GRAZIE !



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