

Scacco al Rischio Evitabile

Strategie per Ridurre il Rischio di Eventi Cardiovascolari

12.00 FOCUS ON 4 CARDIOLOGIA CLINICA

Coordinatori: Edoardo Bossone, Carmine Riccio

- Triplice terapia con acido bempedoico e statina/ezetimibe per il rischio evitabile nel paziente con malattia aterosclerotica cardiovascolare - Arturo Cesaro
- Terapia farmacologica per la lotta al rischio evitabile nel paziente con ipertrigliceridemia - Plinio Cirillo
- Trattamento farmacologico integrato per il rischio evitabile nella sindrome coronarica cronica - Ciro Indolfi
- Terapia antitrombotica bilanciata tra rischio emorragico ed ischemico nel paziente con sindrome coronarica acuta - Leonardo De Luca
- Amiloidosi cardiaca: update 2020-2021 Giuseppe Limongelli
- Take home message Carmine Riccio



What is new?

Definition

Epidemiology

Clinical Presentation - Diagnosis

Imaging

Management

What is new?

Definition

One name, many disease...

Terminology and Classification of Amyloidoses

Amyloid protein	Precursor	Syndrome or involved tissue
AL	immunoglobulin light chain	Primary / Myeloma associated
ATTR	Transthyretin	Familial (PAF) Senile (wilde type TTR)
AA	Serum AA	Secondary, reactive
A B ₂ M	ß ₂ microglobulin	Hemodyalisis associated
AApo All AFib Alys	Apolipoprotein All Fibrinogen α chain Lysozyme	Familial Familial Familial
Aß APrP	Aß protein precursor Prion protein	 Alzheimer's desease, aging Spongioform encephalopathies

-More than 30 different types of Amyloidosis (each due to a specific protein)

-Cardiac Amyloidosis: AL + ATTr (up to 95%)

A restrictive cardiomyopathy?



Vol. II

5^a Edizione

Presentazione di L. Croce

CARDIOMIOPATIE RESTRITTIVE ED INFILIRATIVE

CARDIOMIOPATIE RESTRITTIVE ED INFILTRATIVE

Delle tre principali categorie funzionali di cardiomiopatie (dilatativa, ipertrofica e restrittiva), la cardiomiopatia restrittiva è la meno frequente nei paesi Occidentali, sebbene forme secondarie di cardiomiopatia restrittiva come la malattia endomiocardica (vedi p. 1994) siano frequenti in determinate aree geografiche.362,363 Il contrassegno della cardiomiopatia restrittiva è l'alterazione della funzione diastolica; le pareti ventricolari sono eccessivamente rigide e si oppongono al riempimento ventricolare. La funzione contrattile, al contrario, è relativamente risparmiata, anche in numerosi casi di infiltrazione estesa del miocardio.6.364 La cardiomiopatia restrittiva, perciò, presenta qualche similitudine funzionale con la pericardite costrittiva, che è anch'essa caratterizzata da una funzione sistolica quasi normale, ma da un alterato riempimento ventricolare. 365,366 La differenziazione tra le due condizioni è di fondamentale importanza a causa delle prospettive chirurgiche presenti nella seconda (Tab. 43-8, p. 2096). 219,363,363a

Tab. 41-13. Classificazione delle cardiomiopatie restrittive

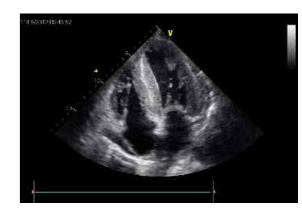
MIOCARDICHE Non infiltrative Idiopatiche Sclerodermia Infiltrative Amiloidosi Sarcoidosi

> Malattia di Gaucher Malattia di Hurler Malattie metaboliche Emocromatosi

Malattia di Fabry Glicogenopatie

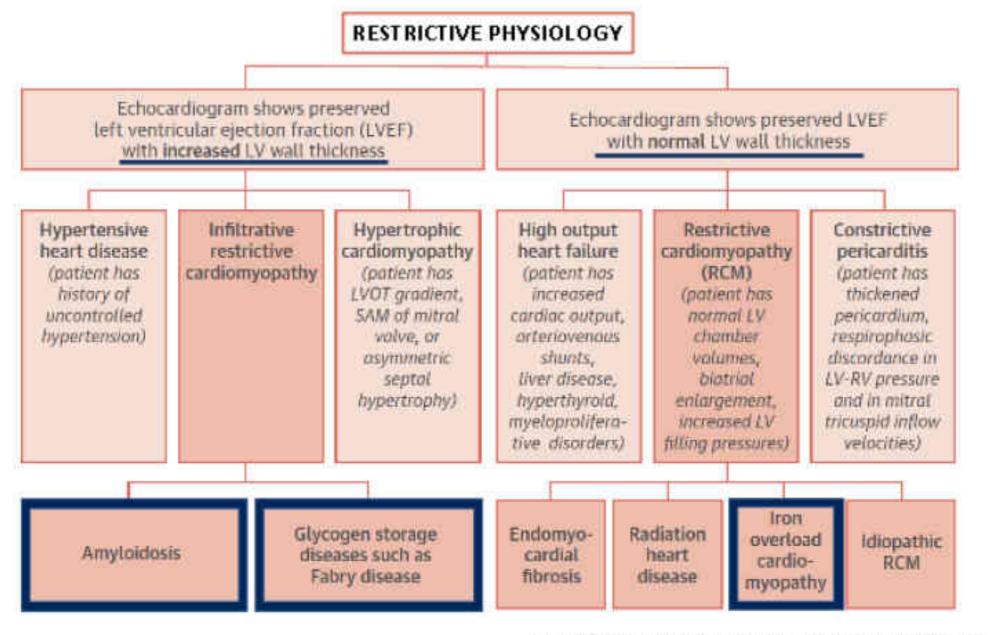
ENDOMIOCARDICHE Fibrosi endomiocardica Sindrome ipereosinofila Carcinoide Neoplasie metastatiche Radiazioni Tossicità da antraciclina





1987

Infiltrative cardiomyopathies: phenotypic classification



Modified from Pereira, N.L. et al. J Am Coll Cardiol. 2018;71(10):1130-48.

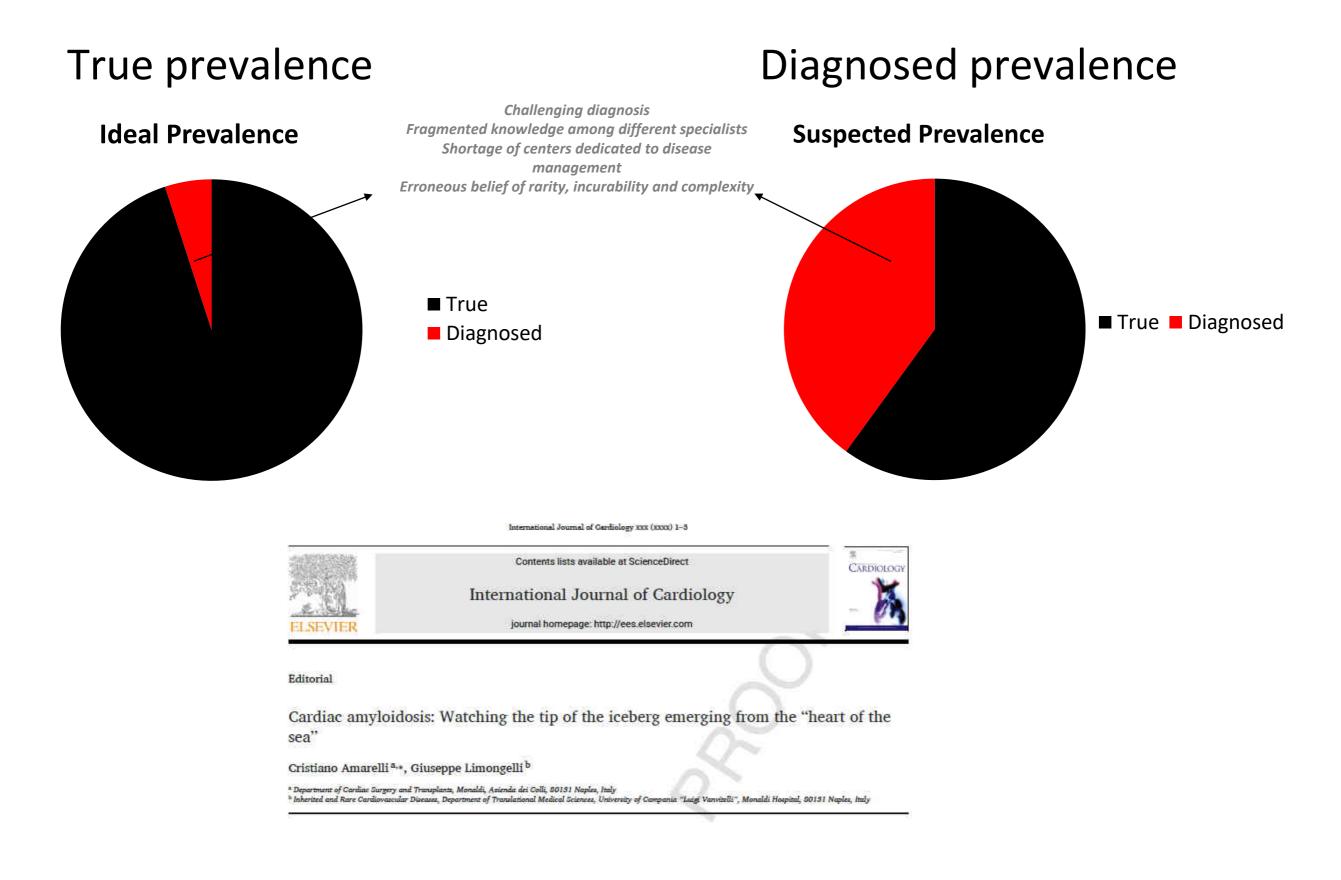
What is new?

Epidemiology

Increased awarness on Cardiac Amyloidosis

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	Cardiac amyloidosis. Martinez-Naharro A, Hawkins PN, Fontana	
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MY NCBI FILTERS	1 Martinez-Naharro A, Hawkins PN, Fontana Cite Clin Med (Lond). 2018 Apr 1;18(Suppl 2):s3 PMID: 29700090 Free PMC article.	M. 30-s35. doi: 10.7861/clinmedicine.18-2-s30.

Epidemiologia e prevalenza: l'amiloidosi è una patologia rara o poco diagnosticata?



What is new?

Clinical Presentation

Clinical Scenarios - Cardiac Red Flags

- -HFpEF -HCM/LVH
- -Aortic Stenosis
- -Arrhythmias (AVB, AF)
- -Syncope, orthostatic hypotension



wtATTR

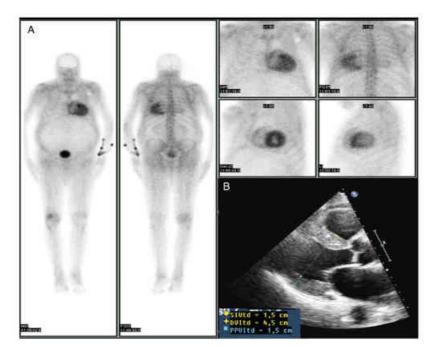


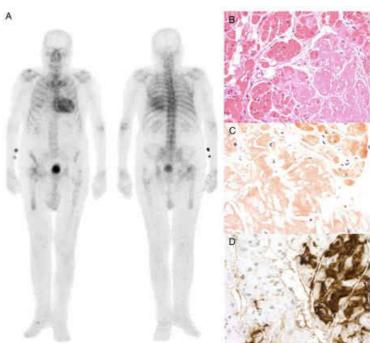
CLINICAL RESEARCH Heart failure/cardiomyopathy

Wild-type transthyretin amyloidosis as a cause of heart failure with preserved ejection fraction

Esther González-López¹, Maria Gallego-Delgado¹, Gonzalo Guzzo-Merello¹, F. Javier de Haro-del Moral², Marta Cobo-Marcos¹, Carolina Robles¹, Belén Bornstein^{3,4,5}, Clara Salas⁶, Enrique Lara-Pezzi⁷, Luis Alonso-Pulpon¹, and Pablo Garcia-Pavia^{1,7*}

13% HFPEF!







CLINICAL RESEARCH Heart failure/cardiomyopathy

wtATTR

Unveiling transthyretin cardiac amyloidosis and its predictors among elderly patients with severe aortic stenosis undergoing transcatheter aortic valve replacement

Adam Castaño^{1,2}*, David L. Narotsky¹, Nadira Hamid³, Omar K. Khalique³, Rachelle Morgenstern², Albert DeLuca², Jonah Rubin¹, Codruta Chiuzan⁴, Tamim Nazif³, Torsten Vahl³, Isaac George³, Susheel Kodali³, Martin B. Leon³, Rebecca Hahn³, Sabahat Bokhari², and Mathew S. Maurer¹

Aims	Transthyretin cardiac amyloidosis (ATTR-CA) has been reported in patients with aortic stenosis (AS) but its prevalence and phenotype are not known. We examine elderly patients with severe symptomatic AS undergoing transcatheter aor tic valve replacement (TAVR) and determine the prevalence and phenotype of ATTR-CA non-invasively.
Methods and results	We performed technetium-99m pyrophosphate (99m Tc-PYP) cardiac scintigraphy prospectively on patients who underwent TAVR, to screen for ATTR-CA. Transthoracic echocardiography and speckle-strain imaging were per formed. We assessed the association of several parameters with ATTR-CA using multivariable logistic regression and constructed receiver operating curves to evaluate the best predictors of ATTR-CA. Among 151 patient (mean age 84±6years, 68% men), 16% ($n=24$) screened positive for ATTR-CA with ^{99m} Tc-PYP scintigraphy Compared with patients without ATTR-CA, ATTR-CA patients had a thicker interventricular septum (1.3 vs 1.1 cm, $P=0.007$), higher left ventricular (LV) mass index (130 vs. $98g/m^2$, $P=0.002$), and lower stroke volume index (30 vs. 36 mL/m ² , $P=0.009$). ATTR-CA patients had advanced diastolic dysfunction with higher <i>E/A</i> ratio (2.: vs. 0.9, $P=0.001$) and lower deceleration time (176 vs. 257 ms, $P<0.0001$); impairment in systolic function with lower ejection fraction (48% vs. 56%, $P=0.011$), myocardial contraction fraction (26 vs. 41, $P<0.0001$), and aver age of lateral and septal mitral annular tissue Doppler S' (4.0 vs. 6.6 cm/s, $P<0.0001$). While ATTR-CA patient had more impaired global longitudinal strain (-12 vs16%, $P=0.007$), relative apical longitudinal strain was the same regardless of ATTR-CA diagnosis (0.98 vs. 0.98, $P=0.991$). Average S' best predicted ATTR-CA in multivari able logistic regression (odds ratio 16.67 per 1 cm/s decrease with AUC 0.96, 95% confidence interval 0.90–0.99 P=0.002) with a value ≤6 conferring 100% sensitivity for predicting a positive ^{99m} Tc-PYP amyloid scan.
Conclusions	Transthyretin cardiac amyloidosis is prevalent in 16% of patients with severe calcific AS undergoing TAVR and is associated with a severe AS phenotype of low-flow low-gradient with mildly reduced ejection fraction. Average tissue Doppler mitral annular S' of < 6 cm/s may be a sensitive measure that should prompt a confirmatory ^{99m} Tc-PYP scan and subsequent testing for ATTR-CA. Prospective assessment of outcomes after TAVR is needed in patients with and without ATTR-CA.

16% AS!



European Heart Journal (2016) **37**, 1826–1834 doi:10.1093/eurheartj/ehv583 FASTTRACK CLINICAL RESEARCH Heart failure/cardiomyopathy

Prevalence and clinical phenotype of hereditary transthyretin amyloid cardiomyopathy in patients with increased left ventricular wall thickness

Thibaud Damy¹*, Bruno Costes², Albert A. Hagège³, Erwan Donal⁴, Jean-Christophe Eicher⁵, Michel Slama⁶, Aziz Guellich¹, Stéphane Rappeneau¹, Jean-Pierre Gueffet⁷, Damien Logeart⁸, Violaine Planté-Bordeneuve⁹, Hélène Bouvaist¹⁰, Olivier Huttin¹¹, Geneviève Mulak¹², Jean-Luc Dubois-Randé¹, Michel Goossens², Florence Canoui-Poitrine^{13†}, and Joel N. Buxbaum^{14†}

Aims	Increased left ventricular wall thickness (LVWT) is a common finding in cardiology. It is not known how often hereditary transthyretin-related familial amyloid cardiomyopathy (mTTR-FAC) is responsible for LVWT. Several therapeutic mo- dalities for mTTR-FAC are currently in clinical trials; thus, it is important to establish the prevalence of TTR mutations (mTTR) and the clinical characteristics of the patients with mTTR-FAC.
Methods and results	In a prospective multicentre, cross-sectional study, the TTR gene was sequenced in 298 consecutive patients diagnosed with increased LVWT in primary cardiology clinics in France. Among the included patients, median (25–75th percentiles) age was 62 [50;74]; 74% were men; 23% were of African origin; and 36% were in NYHA Class III–IV. Median LVWT was 18 (16–21) mm. Seventeen (5.7%; 95% confidence interval [CI]: [3.4;9.0]) patients had mTTR of whom 15 (5.0%; 95% CI [2.9;8.2]) had mTTR-FAC. The most frequent mutations were V142I ($n = 8$), V50M ($n = 2$), and I127V ($n = 2$). All mTTR-FAC patients were older than 63 years with a median age of 74 [69;79]. Of the 15 patients with mTTR-FAC, 8 were of African descent while 7 were of European descent. In the African descendants, mTTR-FAC median age was 74 [72;79] vs. 55 [46;65] years in non-mTTR-FAC ($P < 0.001$). In an adjusted multivariate model, African origin, neuropathy, carpal tunnel syndrome, electrocardiogram (ECG) low voltage, and late gadolinium enhancement (LGE) at cardiac-magnetic resonance imaging were all independently associated with mTTR-FAC.
Conclusion	Five per cent of patients diagnosed with hypertrophic cardiomyopathy have mTTR-FAC. Mutated transthyretin genetic screening is warranted in elderly subjects with increased LVWT, particularly, those of African descent with neuropathy, carpal tunnel syndrome, ECG low voltage, or LGE.
Keywords	Hypertrophic cardiomyopathy • Cardiac amyloidosis • Transthyretin

mATTR

5.7% IVS!



Figura 1. Spettro di correlazioni genotipo-fenotipo nell'amiloidosi transtiretino-relata. L'espressione fenotipica varia da un interessamento quasi esclusivamente neurologico (mutazione Val30Met "early onset") ad uno esclusivamente cardiaco (mutazioni Thr60Ala, Leu111Met, ile68Leu e Val122Ile). Altre mutazioni sono legate ad un fenotipo misto con gradi variabili di coinvolgimento neurologico e cardiaco.

SSA, amiloidosi sistemica senile.

When To Suspect Cardiac Amyloidosis?



Prevalence and clinical significance of red flags in patients with hypertrophic cardiomyopathy

Giuseppe Limongelli ^{a,b,c,d,*}, Emanuele Monda ^{a,b}, Stefania Tramonte ^b, Felice Gragnano ^g, Daniele Masarone ^b, Giulia Frisso ^{e,f}, Augusto Esposito ^b, Rita Gravino ^b, Emesto Ammendola ^b, Gemma Salerno ^b, Marta Rubino ^b, Martina Caiazza ^b, Mariagiovanna Russo ^a, Paolo Calabrò ^g, Perry Mark Elliott ^d, Giuseppe Pacileo ^b

^{*} Dipartimento di Scienze Mediche Traslazionali, Università della Campania Luigi Vanviteili, Napoli, Italy

^b Unità di Cardiomiopatie e Scompenso Cardiaco - Ospedale Monaldi, ADRN Colli, Napoli, Italy

^e European Reference Network - GUARD HEART, UK

⁴ Institute of Cardiovascular Sciences, University College of London and St. Bartholomew's Hospital, London, UK

^{*} Dipartimento di Medicina Moleanlare e Biotecnologie Mediche, Università di Napoli 'Federico II', Italy

CEINCE-Biotecnologie Avanzate s.c.a.r.L.Italy

[#] UOC Cardiologia Vanvitelli - Osp. Snat'Anna e San Sebastiano - Caserta, Italy

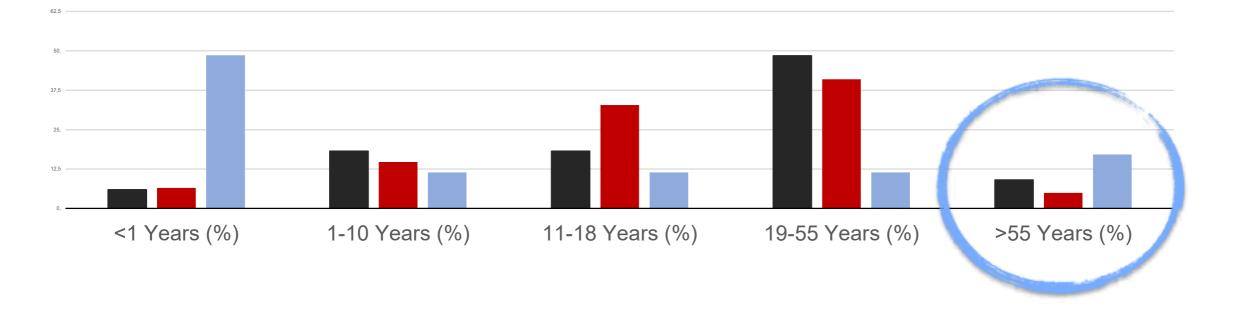
International Journal of Cardiology 299 (2020) 186-191



Prevalence and clinical significance of red flags in patients with hypertrophic cardiomyopathy



Giuseppe Limongelli ^{a,b,c,d,*}, Emanuele Monda ^{a,b}, Stefania Tramonte ^b, Felice Gragnano ^g, Daniele Masarone ^b, Giulia Frisso ^{e,f}, Augusto Esposito ^b, Rita Gravino ^b, Emesto Ammendola ^b, Gemma Salerno ^b, Marta Rubino ^b, Martina Caiazza ^b, Mariagiovanna Russo ^a, Paolo Calabrò ^g, Perry Mark Elliott ^d, Giuseppe Pacileo ^b



Idiopathic HCM
Sarcomeric HCM
Specific causes of HCM

"Prevalence of specific disease was higher:

-in infants (78%; i.e. Pompe, RAS-Mapk)

-in adults >55 years old (58%; Amyloydosis & Fabry) Limongelli et al. 2019

When to suspect cardiac amiloydosis?

ESC European Heart Journal (2021) 00, 1-128 European Society doi:10.1093/eurheartj/ehab368 of Cardiology

ESC GUIDELINES

2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure

Developed by the Task Force for the diagnosis and treatment of acute and chronic heart failure of the European Society of Cardiology (ESC)

With the special contribution of the Heart Failure Association (HFA) of the ESC

Authors/Task Force Members: Theresa A. McDonagh* (Chairperson) (United Kingdom), Marco Metra 🎯 * (Chairperson) (Italy), Marianna Adamo (Task Force Coordinator) (Italy), Roy S. Gardner (Task Force Coordinator) (United Kingdom), Andreas Baumbach (United Kingdom), Michael Böhm (Germany), Haran Burri (Switzerland), Javed Butler (United States of America), Jelena Celutkiene (Lithuania), Ovidiu Chioncel (Romania), John G.F. Cleland (United Kingdom), Andrew J.S. Coats (United Kingdom), Maria G. Crespo-Leiro (Spain), Dimitrios Farmakis (Greece), Martine Gilard (France), Stephane Heymans

* Corresponding authors: The two chairpersons contributed aqualy to the document.



Table 35 "Red flags" for most common forms of cardiac amyloidosis

Туре	Red Flag	TTR	AL
Extracardia c	Polyneuropathy	×	X
	Dysautonomia	×	X
	Skin bruising		X
	Macroglossia		X
	Deafness	X	
	Bilateral carpal tunnel syndrome	Х	
	Ruptured bloeps tendon	X	
	Lumbar spinal stenosis	X	
	Vitreous deposits	X	
	Family history	×.	
	Renal Insufficiency		×
	Proteinuria		×
Cardiac	Clinical		
224/22/17/2	Hypotension or normotensive if	×	X
	previously hypertensive		
	ECG		
	Pseudo-infarct ECG pattern	×	X
	Low/decreased QRS voltage to	×	×
	degree of LV thickness		
	AV conduction disease	×	×
	Laboratory		
	Disproportionally elevated NT-	×	×
	proBNP to degree of HF		x
	Persisting elevated troponin levels	×	
	Echocardiography Granular sparking of myocardium	×	x
	Increased right ventricular wall	- Q	Ŷ
	thickness	0	-
	Increased AV valve thickness	x	x
	Pericardial effusion	×	X
	Reduced longitudinal strain with	×	×
	apical sparing pattern		
	CMR		
	Subendocardial LGE	×	×
	Elevated native T1 values	×	×
	Increased extracellular volume	×	×
	Abnormal gedolinium kinetics	×	X

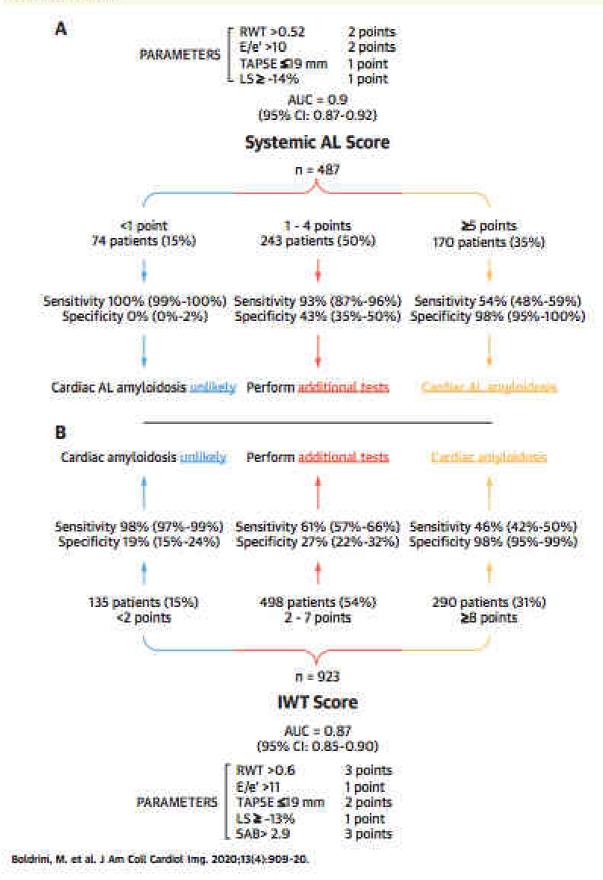
Multiparametric Echocardiography Scores for the Diagnosis of Cardiac Amyloidosis

Michele Boldrini, MD,^{4,b} Francesco Cappelli, MD,⁶ Liza Chacko, MD,⁴ Maria Alejandra Restrepo-Cordoba, MD,^{4,e} Angela Lopez-Sainz, MD, PHD,^{4,e} Alberto Giannoni, MD, PHD,^{6,e} Alberto Aimo, MD, MRCP,^{5,e} Andrea Baggiano, MD,^b Ana Martinez-Naharro, MD,^a Carol Whelan, MD,^a Cristina Quarta, MD, PHD,^a Claudio Passino, MD,^{6,e} Vincenzo Castiglione, MD,^a Vladyslav Chubuchnyi, MD,^f Valentina Spini, MD,^f Claudia Taddei, BSc,^f Giuseppe Vergaro, MD, PHD,^{6,e} Aviva Petrie, BSc (Hons),ⁱ Luis Ruiz-Guerrero, MD,^d Vanessa Moñivas, MD, PHD,ⁱ Susana Mingo-Santos, MD, PHD,¹ Jesus G. Mirelis, MD, PHD,^{4,e} Fernando Dominguez, MD, PHD,^{6,e} Esther Gonzalez-Lopez, MD, PHD,^{4,e} Stefano Perlini, MD, PHD,^b Gianluca Pontone, MD, PHD,^b Julian Gillmore, MD, PHD,^a Philip N. Hawkins, PHD, FMI20SC,^a Pablo Garcia-Pavia, MD, PHD,^{4,e,j} Michele Emdin, MD, PHD,^{5,es} Marianna Fontana, MD, PHD^a

Here, we provide a multiparametric echocardiographic approach for the 2 challenging clinical scenarios of patients with systemic AL amyloidosis or a hypertrophic phenotype.

By using highly sensitive and highly specific cutoffs in patients with systemic AL amyloidosis, amyloidosis can be excluded or confirmed in 50% of patients without the need for further tests.

In patients with a hypertrophic phenotype, highly specific or highly sensitive cutoffs can be used to guide the diagnostic algorithm, avoid unnecessary tests, and limit the time to diagnosis CENTRAL ILLUSTRATION Diagnostic Algorithms With Echocardiographic Scores in 2 Different Clinical Scenarios



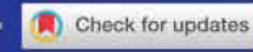


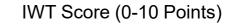
SHORT COMMUNICATION | VOLUME 339, P99-101, SEPTEMBER 15, 2021

External validation of the increased wall thickness score for the diagnosis of cardiac amyloidosis

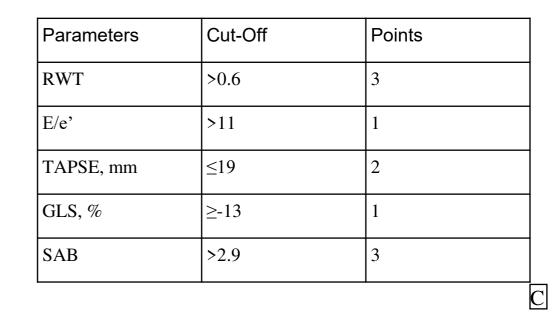
Emanuele Monda 1 • Giuseppe Palmiero 1 • Michele Lioncino • ... Martina Caiazza • Francesca Dongiglio • Giuseppe Limongelli 2 🖾 • Show all authors • Show footnotes

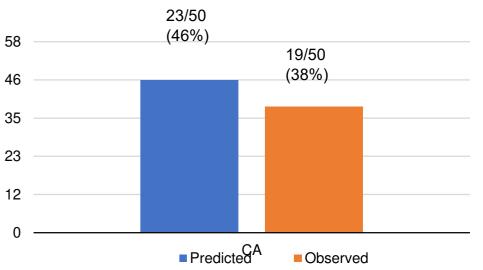
Published: July 18, 2021 * DOI: https://doi.org/10.1016/j.ijcard.2021.07.035 *

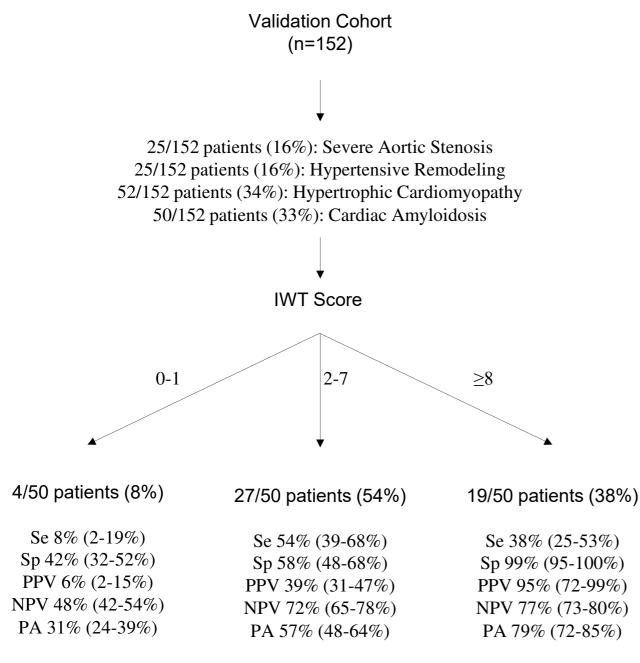




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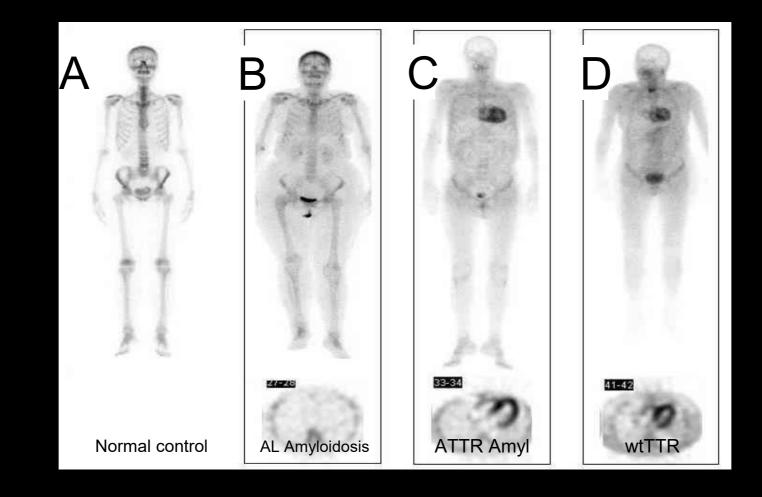




What is new?

Imaging

TcDPD Scintigraphy



Perugini et al, J Am Coll Cardiol 2005;46:1076-84



EUROPEAN Heart Journal (2021) 42, 1554–1568 European Society doi:10.1093/eurheartj/ehab072

Diagnosis and treatment of cardiac amyloidosis: a position statement of the ESC Working Group on Myocardial and Pericardial Diseases

Pablo Garcia-Pavia (a) ^{1,2,3}*, Claudio Rapezzi^{4,5}, Yehuda Adler⁶, Michael Arad⁷, Cristina Basso (a) ^{3,8,9}, Antonio Brucato (a) ¹⁰, Ivana Burazor (a) ¹¹, Alida L.P. Caforio (a) ^{3,12}, Thibaud Damy (a) ^{3,13}, Urs Eriksson (a) ¹⁴, Marianna Fontana (a) ¹⁵, Julian D. Gillmore (a) ¹⁵, Esther Gonzalez-Lopez^{1,3}, Martha Grogan¹⁶, Stephane Heymans^{17,18,19}, Massimo Imazio (a) ²⁰, Ingrid Kindermann²¹, Arnt V. Kristen (a) ^{22,23}, Mathew S. Maurer²⁴, Giampaolo Merlini (a) ^{25,26}, Antonis Pantazis²⁷, Sabine Pankuweit²⁸, Angelos G. Rigopoulos²⁹, and Ales Linhart (a) ³⁰

Essential concepts

- Although nine types of cardiac amyloidosis are known, AL and ATTR currently account for the vast majority of cardiac amyloidosis.
- Both invasive and non-invasive diagnostic criteria are accepted to diagnose cardiac amyloidosis. While invasive diagnostic criteria apply to all forms of cardiac amyloidosis, non-invasive criteria are accepted only for ATTR.

Bone & Blood

Diagnostic Pathway

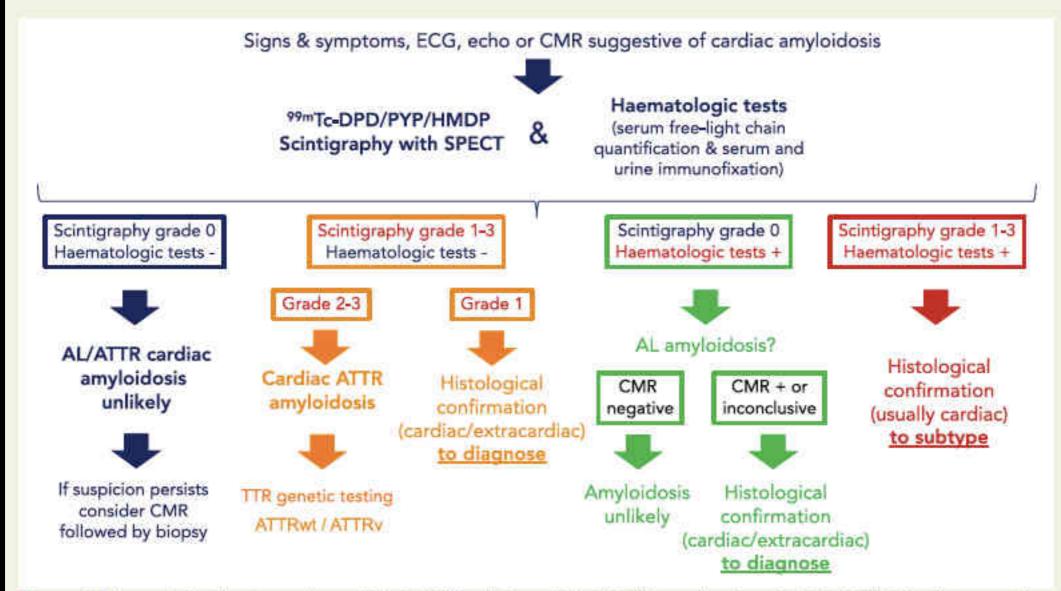


Figure 4 Diagnostic algorithm for cardiac amyloidosis. AL, light-chain amyloidosis;ATTR, transthyretin amyloidosis; ATTRv, hereditary transthyretin amyloidosis; ATTRwt, wild-type transthyretin amyloidosis; CMR, cardiac magnetic resonance; ECG, electrocardiogram; SPECT, single photon emission computed tomography; TTR, transthyretin.

European Heart Journal (2021) 42, 1554–1568 bit of Cardiology doi:10.1093/eurheartj/ehab072

Position Paper Amy 2021



ESC GUIDELINES

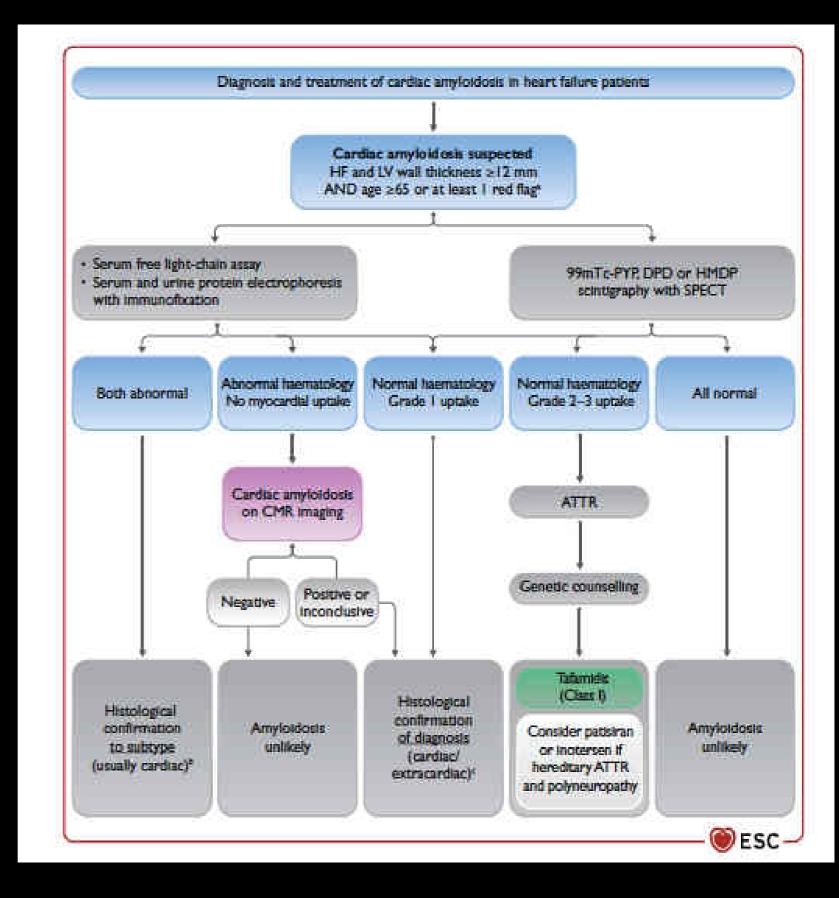
2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure

Developed by the Task Force for the diagnosis and treatment of acute and chronic heart failure of the European Society of Cardiology (ESC)

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> Bone & Blood



HF Guidelines 2021

JACC: CARDIOVASCULAR IMAGING © 2020 BY THE AMERICAN COLLEGE OF CARDIOLOGY FOUNDATION PUBLISHED BY ELSEVIER VOL. 📕, NO. 📕, 2020

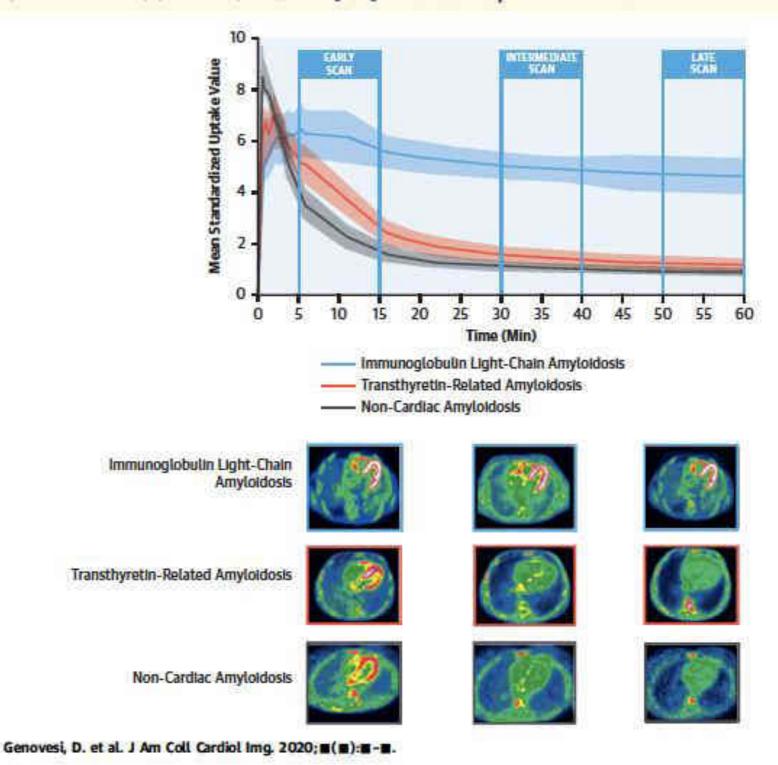
ORIGINAL RESEARCH

[18F]-Florbetaben PET/CT for Differential Diagnosis Among Cardiac Immunoglobulin Light Chain, Transthyretin Amyloidosis, and Mimicking Conditions

Dario Genovesi, MD,^{a,*} Giuseppe Vergaro, MD, PHD,^{b,c,*} Assuero Giorgetti, MD,^{a,*} Paolo Marzullo, MD,^a Michele Scipioni, ENGD,^d Maria Filomena Santarelli, ENGD,^a Angela Pucci, MD,^f Gabriele Buda, MD,^g Elisabetta Volpi, BSc, PHD,^h Michele Emdin, MD, PHD^{b,c}

What next?

CENTRAL ILLUSTRATION Cardiac [18F]-Florbetaben Uptake in Patients With and Without CA



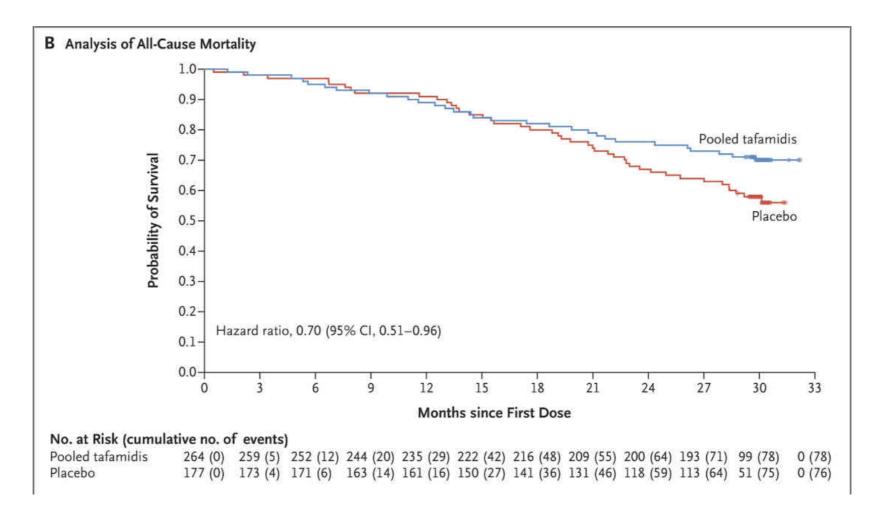
What is new?

Management

ORIGINAL ARTICLE (FREE PREVIEW)

Tafamidis Treatment for Patients with Transthyretin Amyloid Cardiomyopathy

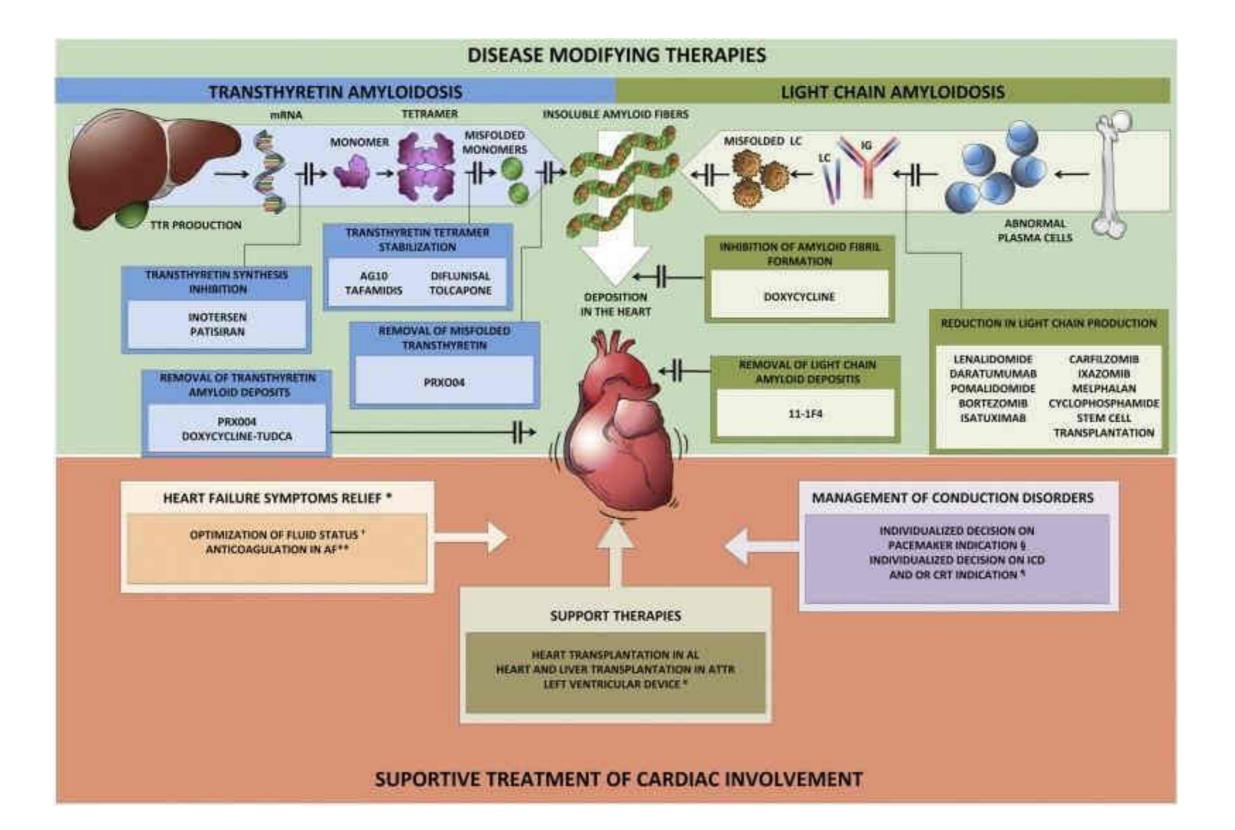
Mathew S. Maurer, M.D., Jeffrey H. Schwartz, Ph.D., Balarama Gundapaneni, M.S., Perry M. Elliott, M.D., Giampaolo Merlini, M.D., Ph.D., Marcia Waddington-Cruz, M.D., Arnt V. Kristen, M.D., Martha Grogan, M.D., Ronald Witteles, M.D., Thibaud Damy, M.D., Ph.D., Brian M. Drachman, M.D., Sanjiv J. Shah, M.D., <u>et al.</u>, for the ATTR-ACT Study Investigators^{*}



ESC GUIDELINES	Recommendations for treatment of patients with HF and amyloidosis		
treatment of acute and chronic heart failure	Tafamidis is recommended in patients with genetic testing pro-		
Developed by the Task Force for the diagnosis and treatment of acute and chronic heart failure of the European Society of Cardiology (ESC)	ven hereditary hTTR-CMP and NYHA dass I or II symptoms to	1	
With the special contribution of the Heart Failure Association (HFA) of the ESC	reduce symptoms, CV hospitalization and mortality.		
Authors/Task Force Members: Theresa A. McDonagh* (Chairperson) (United	Tafamidis is recommended in patients with wtTTR-CA and		
Kingdom), Marco Metra 💚 * (Chairperson) (Italy), Marianna Adamo (Task Force Coordinator) (Italy), Roy S. Gardner (Task Force Coordinator) (United Kingdom), Andreas Baumbach (United Kingdom), Michael Böhm (Germany), Haran Burri	NYHA class I or II symptoms to reduce symptoms, CV hospi-	1	
(Switzerland), Javed Butler (United States of America), Jelena Čelutkiene (Lithuania), Ovidiu Chioncel (Romania), John G.F. Cleland (United Kingdom), Andrew J.S. Coats (United Kingdom), Maria G. Crespo-Leiro (Spain),	talization and mortality.		

Dimitrios Farmakis (Greece), Martine Gilard (France), Stephane Heymans

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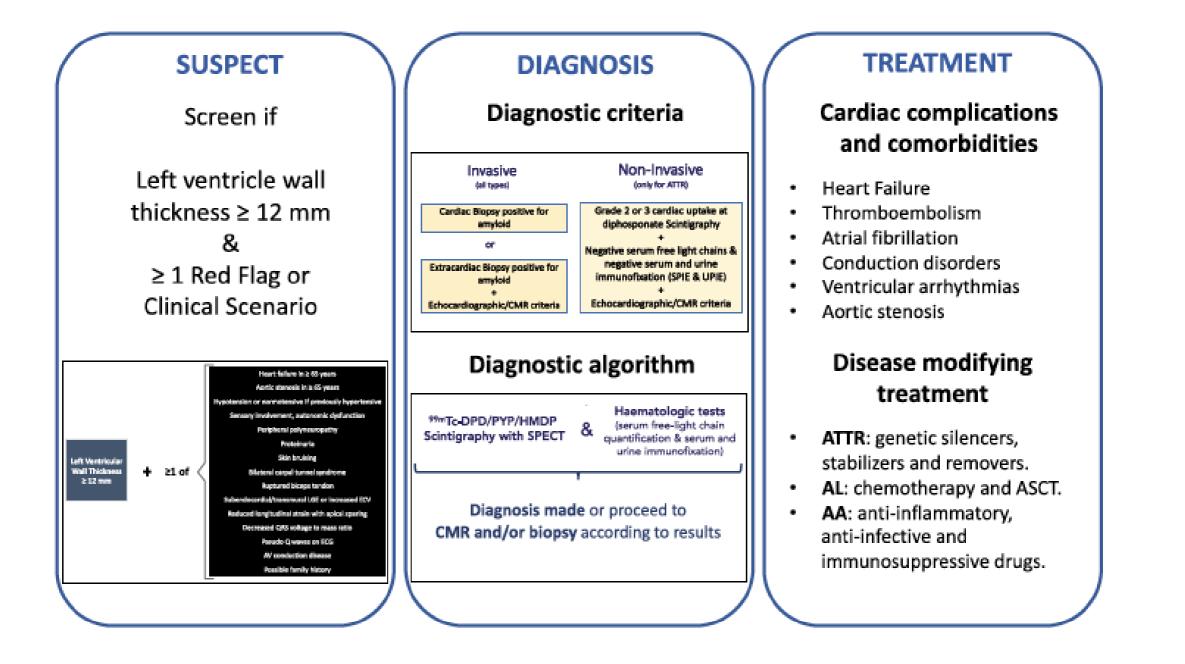


Diagnosis and treatment of cardiac amyloidosis: a position statement of the ESC Working Group on Myocardial and Pericardial Diseases

Table Grade-Print, C. S., Claudio Ropezzi⁽¹⁾, Yahuda Adler¹, Hichaal Arad², Cristin Bawes C.^{4,1}, Antonio Bructon B.⁻¹, Nanas Burzare C.¹¹, Marianes Fontane C.¹, Tahata Daving C.¹¹, Lick Bowes G.¹¹, Marianes Fontane C.¹, Sahata H. Stimmer, C.¹¹, Exter Suncate Lopez¹, Marianes Cregoni, Sceptane Heymourth, Martine Imate C.¹¹, Mariane G.¹¹, Sceptane Heymourth, Martine Balase, C.¹¹, Royando Hentel, C.¹¹, Martine G. Stantare¹¹, Mathew S. Potzere¹¹,

Cardiac amyloidosis

ESC Myocardial WG position paper



Essential concepts

- Cardiac amyloidosis should be considered in patients with increased wall thickness in the presence of cardiac or extracardiac red flags and/or in specific clinical situations.
- A diagnostic algorithm based initially on the use of bone scintigraphy coupled to assessment for monoclonal proteins allows appropriate diagnosis in patients with suggestive signs/symptoms.





BOLLETTINO L'FEICIALE della REGIONE CAMPANIA

n. 81 del 6 Novembre 2017

🛲 🏷 Atti della Regione



DECRETO N. 48 DEL 27/10/2017

OGGETTO: Approvazione Piano Regionale Malattie Rare e del Documento Percorso Diagnostico Assistenziale del paziente raro (acta vii)

Giunta Regionale della Campania

DECRETO DIRIGENZIALE

Giunta Regionale della Campania

DECRETO DIRIGENZIALE

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Adozione Percorso Diagnostico Terapeutico Assistenziale per la Gastroenterite Eosinofila del paziente raro (R10030).

DIRETTORE GENERALE/ DIRIGENTE UFFICIO/STRUTTURA	Avv. Postiglione Antonio
DIRIGENTE UNITA' OFERATIVA DIR. / DIRIGENTE	Dott.coa Komano Maria Kocaria

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Adozione Percorsi Diagnostico-Terapeutici Assistenziali per le seguenti patologie rare: Retinite Pigmeniosa (RFG110), Ipertensione Polmonare Arteriosa idiopatica (RG0120), Fibrosi Polmonare (RH0610) e Perapigo (RL030).

Percorso diagnostico terapeutico assistenziale PDTA- Regione Campania

Ogget

