AL-AMYLOIDOSIS NATIONAL WEBINAR

Follow-Up from the March 12th National AL-Amyloidosis Patient-to-Provider Connection Forum

May 14, 2025



Welcome & Introductions

Devin Marie Keating

Director of Operations, Clinical Studies American Heart Association

Cayla Hadley

Program Implementation Manager American Heart Association

Meeting Reminders

Please Note:

- This webinar is being recorded.
- All participants will be muted upon entry.
- Recordings of today's sessions will be enduring resources in a few weeks on <u>www.heart.org</u>

Questions?

- We encourage an open, conversational discussion, so please engage and share your thoughts!
- Q&A is scheduled at the end of the webinar.
- Submit your questions in the chat anytime they will be addressed during the designated Q&A.

If you are having issue with audio, please call in using the appropriate number below.

Dial by your location:

(Washington DC)		
(Chicago)		
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(Tacoma)		
(Houston)		
(San Jose)		
Meeting ID: 882 3297 2553 Passcode: 595964		



Agenda:

- 1. Welcome & Opening Remarks
- 2. Forum Key Findings & What We Learned from The Experts
- 3. Survey Insights & Innovative Solutions to Challenges
- 4. AL-Amyloidosis Educational Toolkit Launch
- 5. Q&A

Thank you to Alexion, Astra Zeneca Rare Disease for being a proud supporter of the American Heart Association.



THANK YOU to Our Forum Speakers & Panelists!



Linda Perez

Patient Advocate



Heather J. Landau, MD

Memorial Sloan Kettering Cancer Center Director, Amyloidosis Program; Hematologist/Oncologist



Muriel Finkel

Amyloidosis Support Groups President & Co-Founder



Yevgeniy Brailovsky, DO, MSc

NewYork-Presbyterian/Columbia University Irving Medical Center Assistant Professor of Medicine, Cardiology



Jai Radhakrishnan, MD, MS

NewYork-Presbyterian/Columbia University Irving Medical Center Professor of Medicine, Division of Nephrology



Isabelle Lousada

Amyloidosis Research Consortium Founder and CEO



John O. Clarke, MD

Stanford Medicine Clinical Professor of Medicine, Division of Gastroenterology & Hepatology; Director, Esophageal Program; Vice-Chief, Education



Julie Rosenthal, MD

Mayo Clinic Hospital - AZ Director, Cardiac Amyloidosis Program; Assistant Professor of Medicine, Cardiology



Brett Sperry, MD

Saint Luke's Community Hospital

Associate Professor of Medicine, Cardiology

Naim Essam Bideiwy, FNP-C, MSN

NewYork-Presbyterian/Columbia University Irving Medical Center Cardiology



Mazen Hanna, MD

Cleveland Clinic Co-Director, Amyloidosis Center



Deborah D. Boedicker, CFA

Mackenzie's Mission & Amyloidosis Speakers Bureau Board Member



Tammy Reideler, MSN, RN, OCN

Mayo Clinic Hospital - FL Acute Leukemia and Amyloidosis Nurse Navigator



AL-Amyloidosis Expert Collaborative Leadership





Kevin M. Alexander, MD

Assistant Professor of Medicine, Advanced Heart Failure and Transplant Cardiology, *Stanford Medicine*





Melissa A. Lyle, MD, FACC, FHFSA

Assistant Professor of Medicine, Division of Advanced Heart Failure and Transplant, *Mayo Clinic Florida*

Mathew Maurer, MD

Professor of Medicine, Arnold and Arlene Goldstein Professor of Cardiology, *New York-Presbyterian Hospital-Columbia University Medical Center*





Forum Key Findings & What We Learned from The Experts

Melissa Lyle, MD, FACC, FHFSA

Assistant Professor of Medicine Division of Advanced Heart Failure and Transplantation Mayo Clinic Florida

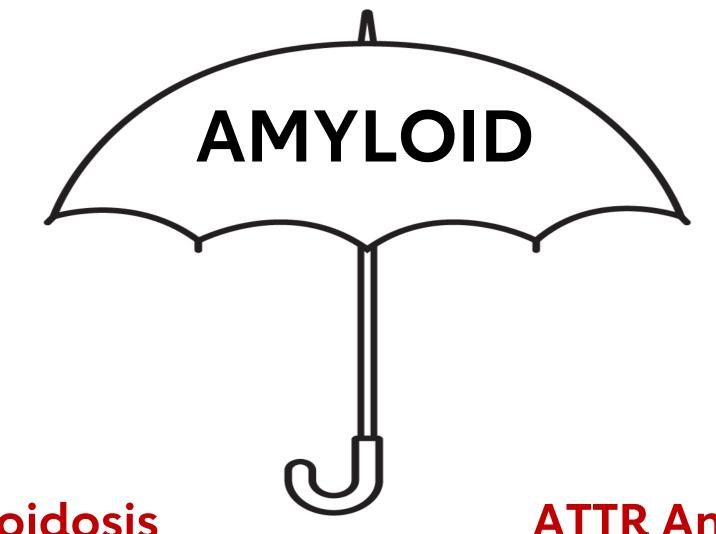


National AL-Amyloidosis Patient-to-Provider Connection Forum:





AL-Amyloidosis Disease Overview



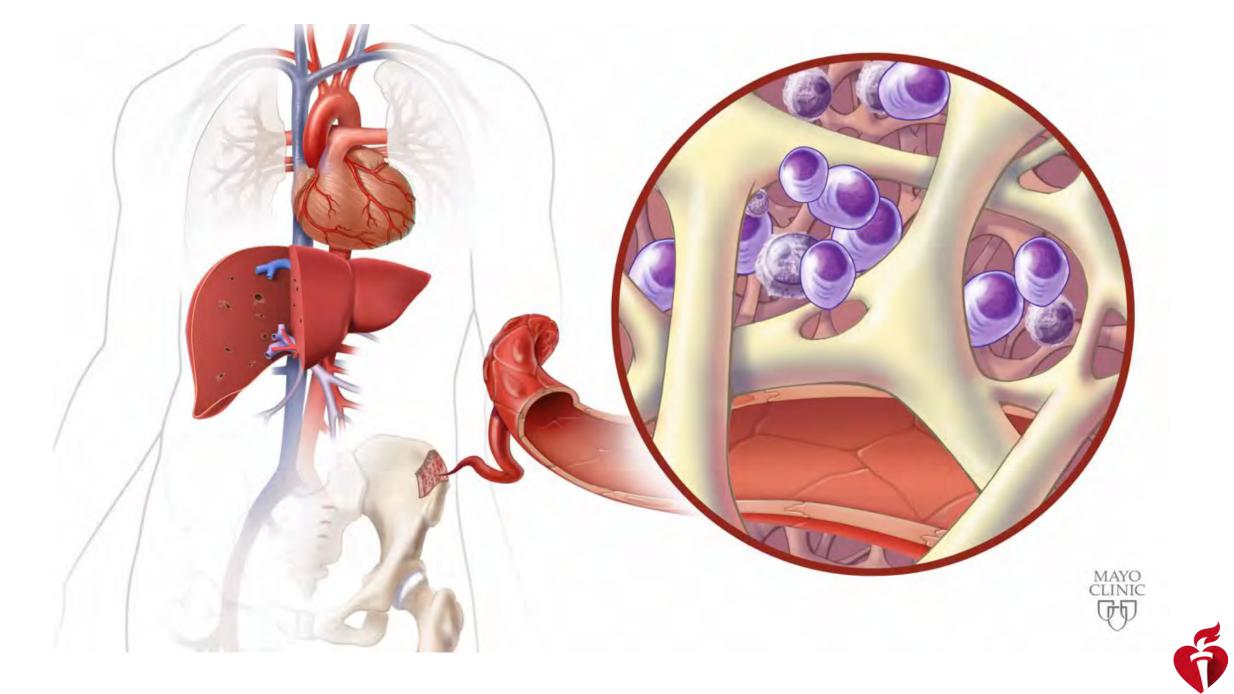
AL Amyloidosis Protein: Immunoglobulin light chain

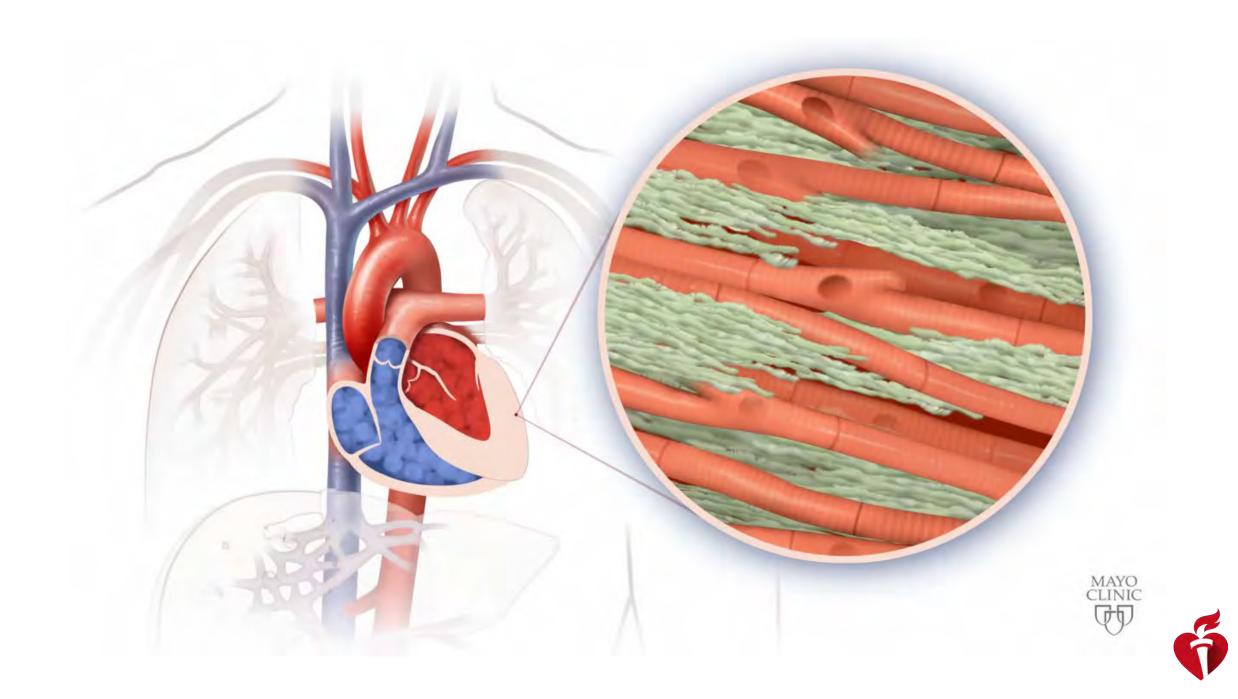
Protein Factory: Plasma Cells in bone marrow

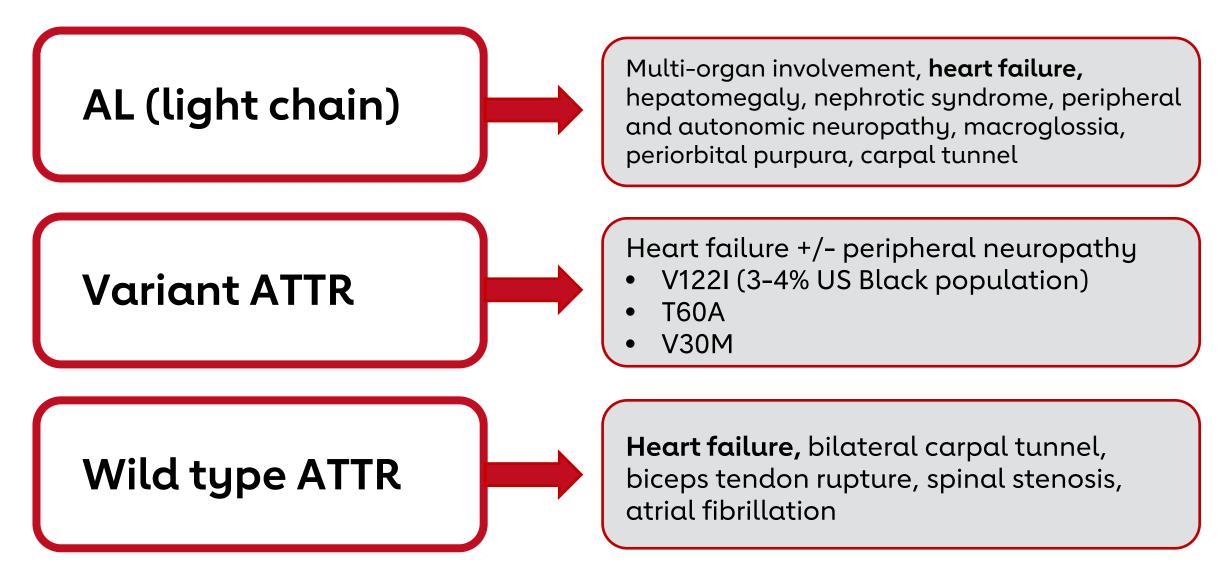
ATTR Amyloidosis

Protein: Transthyretin (TTR) **Protein Factory**: Liver











Prevalence

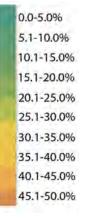
- Estimated annual incidence 1 in 75,000-100,000
- Prevalence 1 in 25,000
- •75% cardiac involvement
- •1 in 7 patients with multiple myeloma have concomitant AL amyloidosis

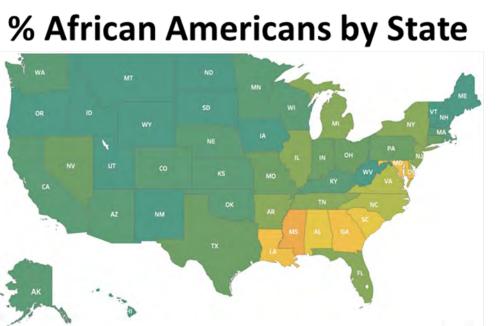




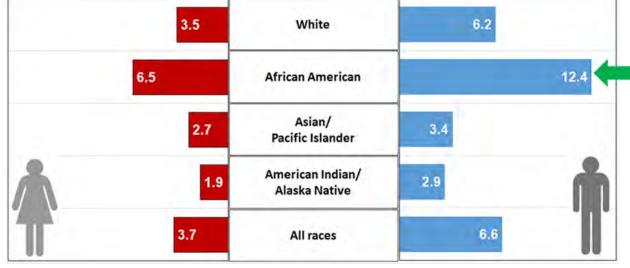
Addressing Care Disparities

Disproportionate Impact and Underdiagnosis in Black Individuals



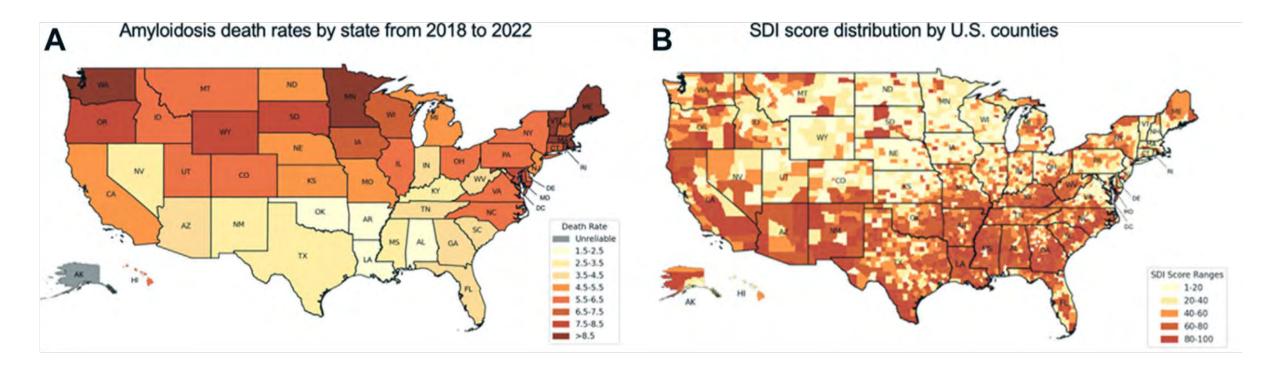


Age-adjusted amyloidosis mortality rate per 1,000,000





Cardiac Amyloidosis Is Disproportionately Underdiagnosed in Socially Vulnerable Areas





Fahad et al., JACC HF 2025.



Early Diagnosis is Critical

Diagnostic Approach

1. Left ventricular wall thickness ≥ 12 mm



2. ≥1 Clinical Clues





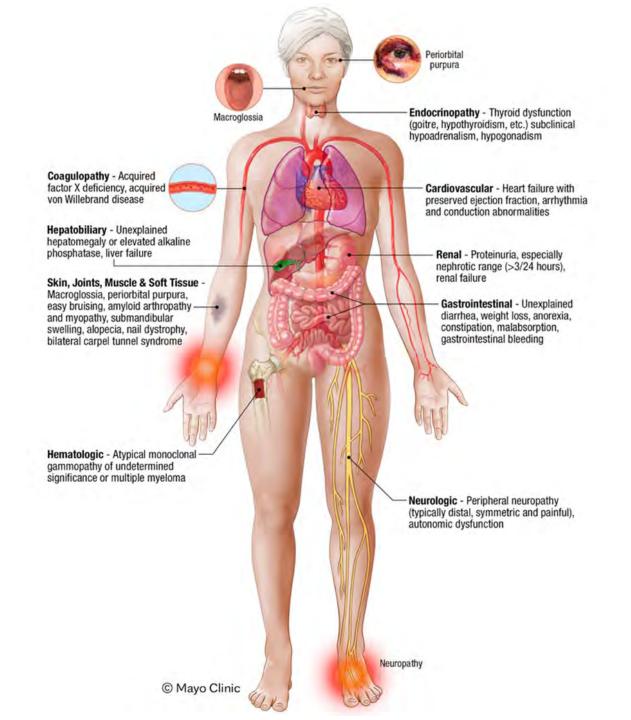
Clinical Clues



- Heart failure ≥ 65 years
- Aortic stenosis in \geq 65 years
- Autonomic dysfunction
- Peripheral polyneuropathy
- Bilateral carpal tunnel syndrome
- Ruptured biceps tendon
- Perioral/periorbital purpura
- Macroglossia

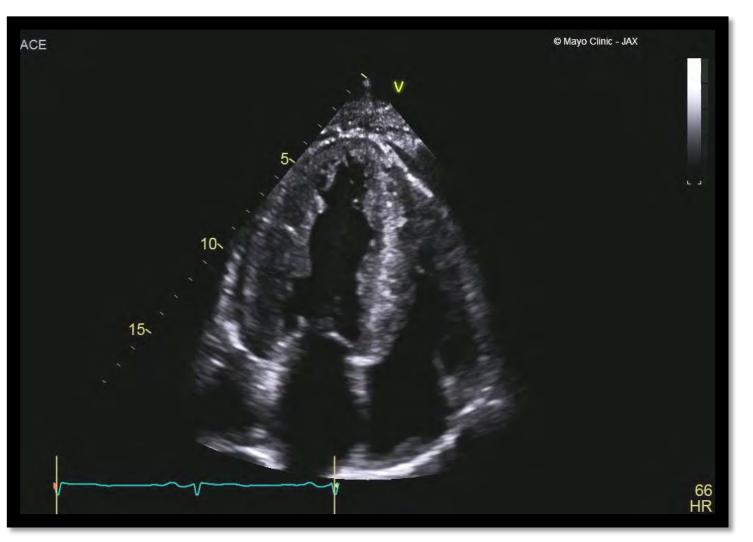
- Low voltage on ECG
- Decreased QRS voltage to mass ratio
- Pseudo Q waves on ECG
- Atrial Fibrillation
- Persistent elevation of cardiac biomarkers
- Intolerance to typical guideline directed medical therapy for heart failure







Echocardiographic Features

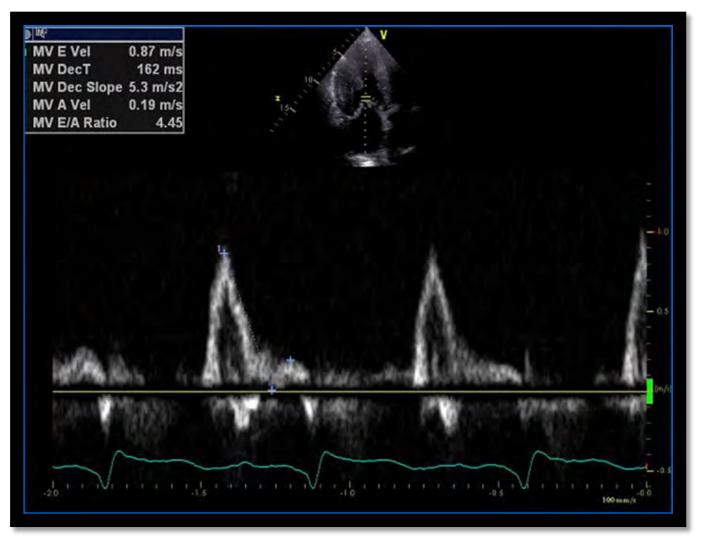


• Concentric biventricular wall thickness

- Bi-atrial enlargement
- Thickened valve leaflets and interatrial septum
- Pericardial effusion

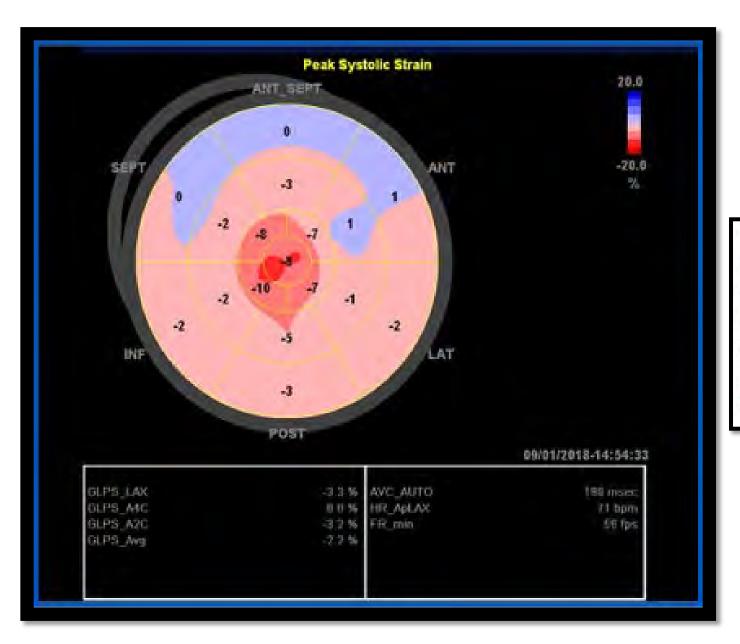


Echocardiographic Features



- E/A ratio > 1.5
- Deceleration time < 150 ms
- Reduced A wave velocity
- 5-5-5 sign • All tissue Doppler velocities < 5 cm/sec





ORIGINAL ARTICLE

Relative apical sparing of longitudinal strain using two-dimensional speckle-tracking echocardiography is both sensitive and specific for the diagnosis of cardiac amyloidosis

Dermot Phelan, Patrick Collier, Paaladinesh Thavendiranathan, Zoran B Popović, Mazen Hanna, Juan Carlos Plana, Thomas H Marwick, James D Thomas



Echocardiographic Prognosis

 Independent echo predictors of mortality
 SVI < 33 mL/min
 Cardiac index
 LV strain -14% ORIGINAL ARTICLE

Independent Prognostic Value of Stroke Volume Index in Patients With Immunoglobulin Light Chain Amyloidosis

See editorial by Siddiqi et al

Paolo Milani, MD, Angela Dispenzieri, MD, Christopher G. Scott, MS, Morie A. Gertz, MD, Stefano Perlini, MD, PhD, Roberta Mussinelli, MD, Martha Q. Lacy, MD, Francis K. Buadi, MD, Shaji Kumar, MD, Mathew S. Maurer, MD, Giampaolo Merlini, MD, Suzanne R. Hayman, MD, Nelson Leung, MD, David Dingli, MD, PhD, Kyle W. Klarich, MD, John A. Lust, MD, PhD, Yi Lin, MD, PhD, Prashant Kapoor, MD, Ronald S. Go, MD, Patricia A. Pellikka, MD, Yi L. Hwa, CNP, Stephen R. Zeldenrust, MD, PhD, Robert A. Kyle, MD, S. Vincent Rajkumar, MD, and Martha Grogan, MD

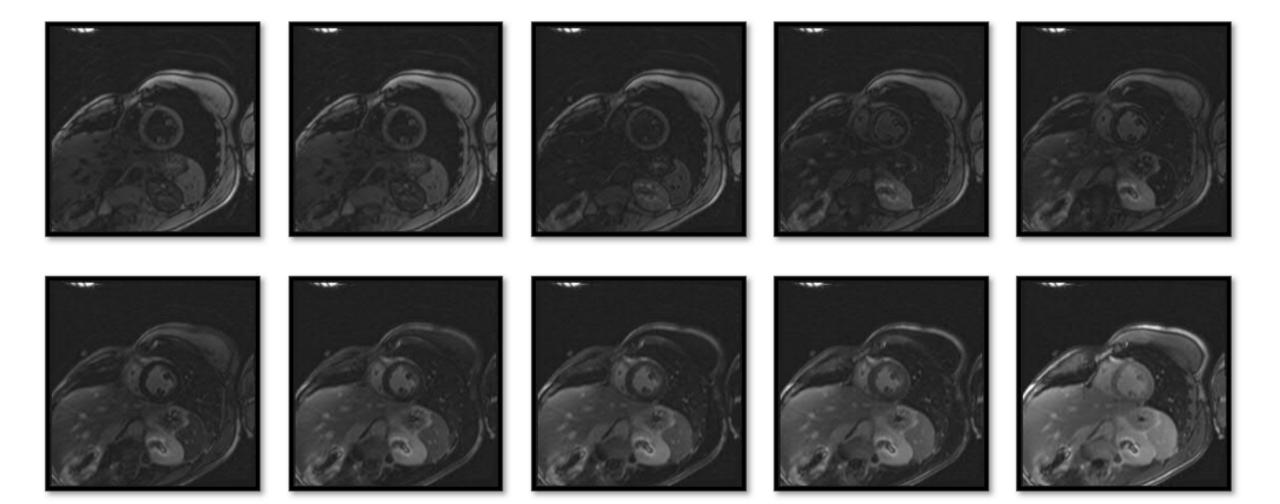


Cardiac Magnetic Resonance

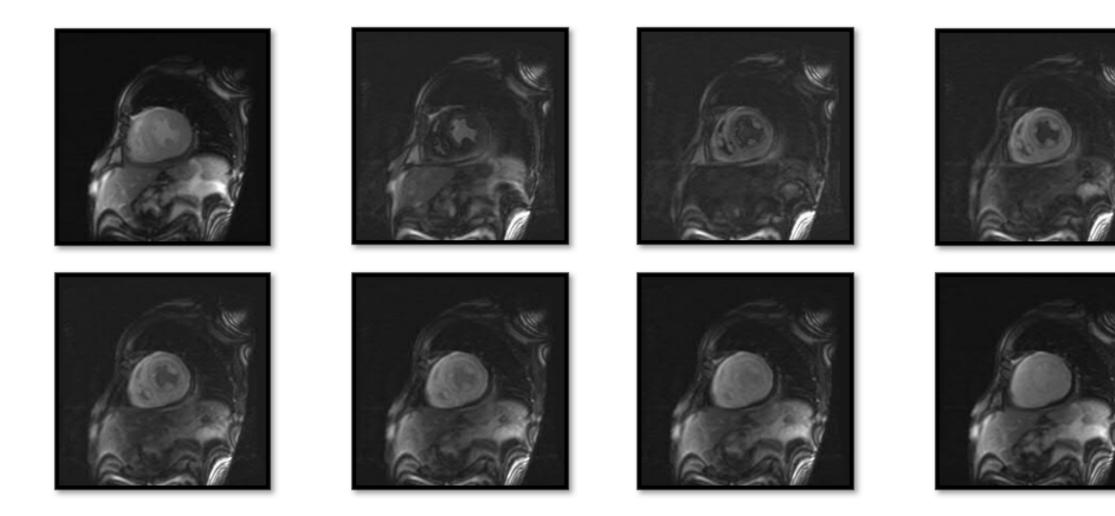




Normal Nulling Pattern



Abnormal Nulling Pattern



WHAT TO DO NEXT?



Blood Tests to Screen for Amyloid?

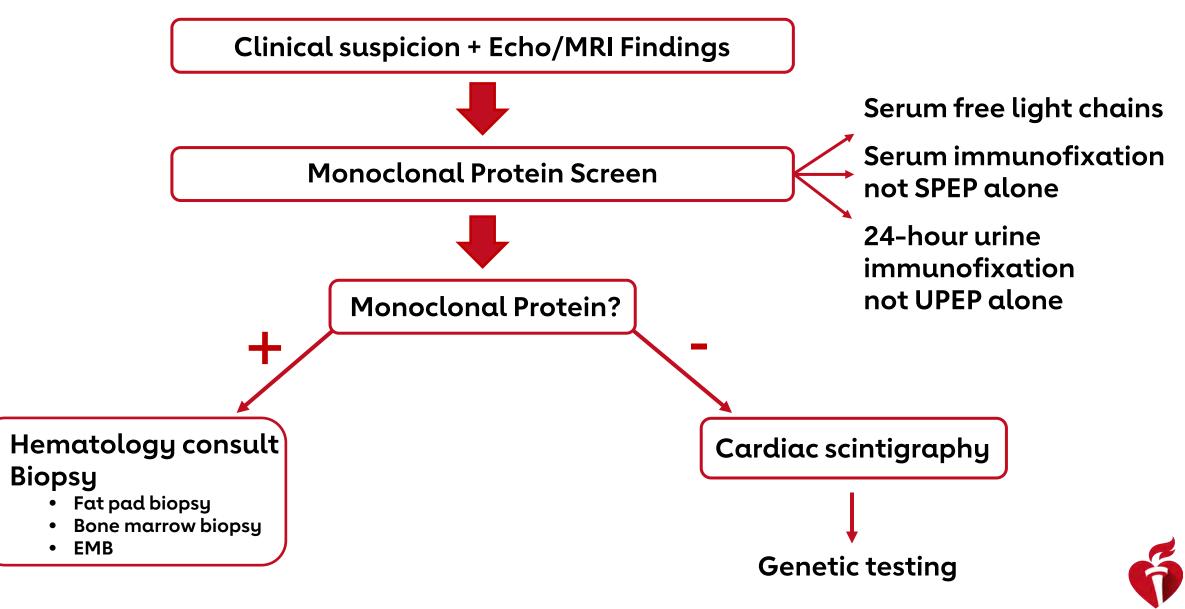
- 1. CBC with differential
- 2. Prealbumin

3. Serum free light chains

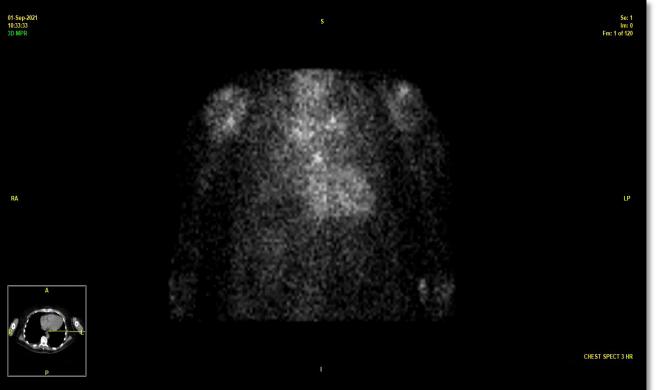
4. Beta-2 microglobulin



Diagnostic Algorithm



Cardiac Scintigraphy



- ^{99m}Tc-labeled pyrophosphate (PYP)
- ^{99m}Tc-labeled 3,3-diphosphono-1,2propanodicarboxylic acid (DPD)

 ^{99m}Tc-labeledhydroxymethylene diphosphonate (HMDP)



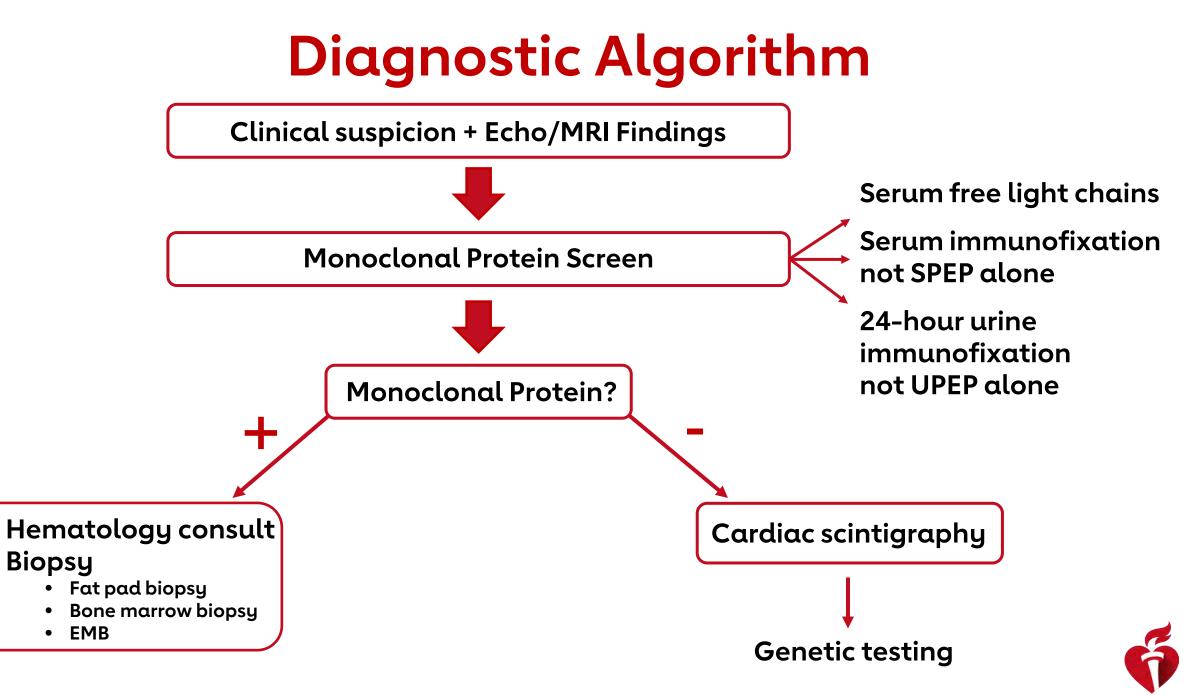
20% of biopsy proven AL patients had Grade 2-3 uptake

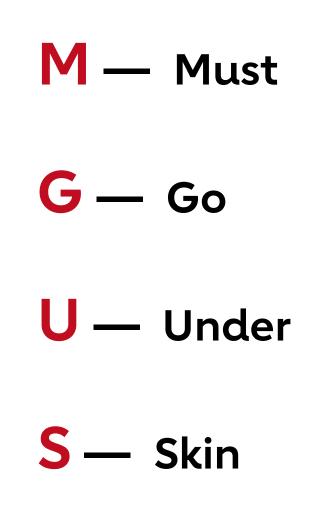
Martha Grogan, MD; Helen J. Lachmann, MD; Sabahat Bokhari, MD; Adam Castano, MD; Sharmila Dorbala, MD, MPH; Geoff B. Johnson, MD, PhD;

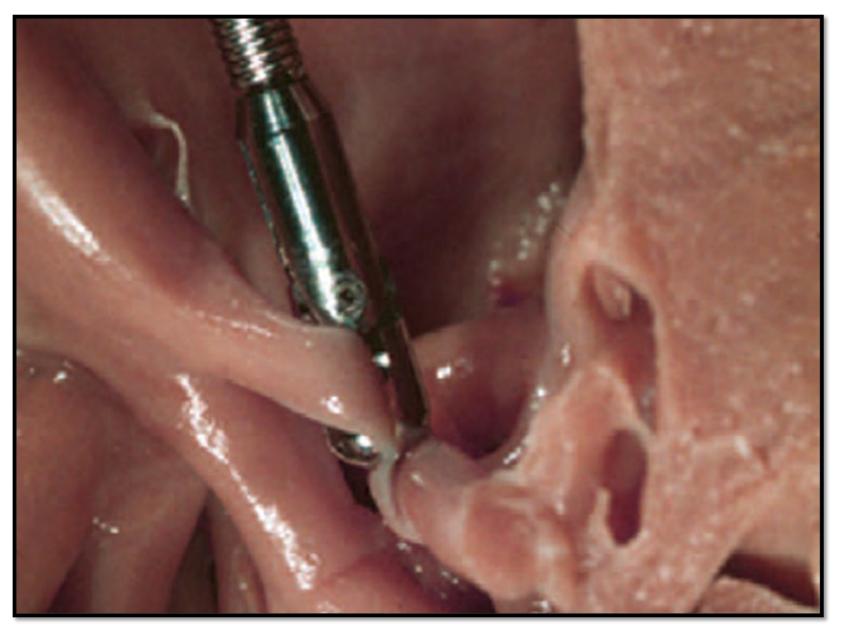
Monoclonal gammopathy must be excluded to use cardiac scintigraphy

	Situation	How to suspect and confirm?
Hydroxychlo AApoAl and ApoAlV amy Aβ2M amylo Blood pool Rib fractures	AL amyloidosis	Abnormal SPIE, UPIE or serum free light ratio. Requires histologic confirmation.
	Hydroxychloroquine cardiac toxicity	Interrogation. Requires histologic confirmation.
	AApoAI and AApoAII amyloidosis	Concomitant kidney disease present. Genetic testing.
	ApoAIV amyloidosis	Concomitant kidney disease present. Requires histologic confirmation.
	Aβ2M amyloidosis	Long-term dialysis (>9 years). Requires histologic confirmation.
	Blood pool	Cardiac dysfunction could be present. Use SPECT to detect uptake in myocardium Delay acquisition.
	Rib fractures, valvular/annular calcifications	Use SPECT to detect uptake in myocardium.
	Recent myocardial infarction (<4 weeks)	Interrogation. Use SPECT to detect diffuse uptake in myocardium.
False negative	Phe84Leu ATTRv, Ser97Tyr ATTRv	Concomitant neuropathy. Familial disease. Genetic testing.
	Very mild disease	Requires histologic confirmation.
	Delayed acquisition	Shorter acquisition time interval.
	Premature acquisition	Prolong acquisition time interval.

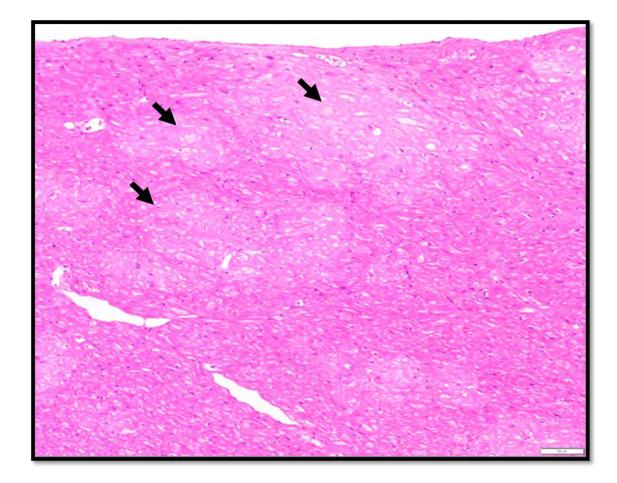
AApoAI, apolipoprotein AI amyloidosis; AApoAII, apolipoprotein AII amyloidosis; AApoAIV, apolipoprotein A-IV amyloidosis; Aβ2M, β2-microglobulin amyloidosis; AL, lightchain amyloidosis; ATTRv, hereditary transthyretin amyloidosis; SPECT, single photon emission computed tomography; SPIE, serum protein electrophoresis with immunofixation; UPIE, urine protein electrophoresis with immunofixation.

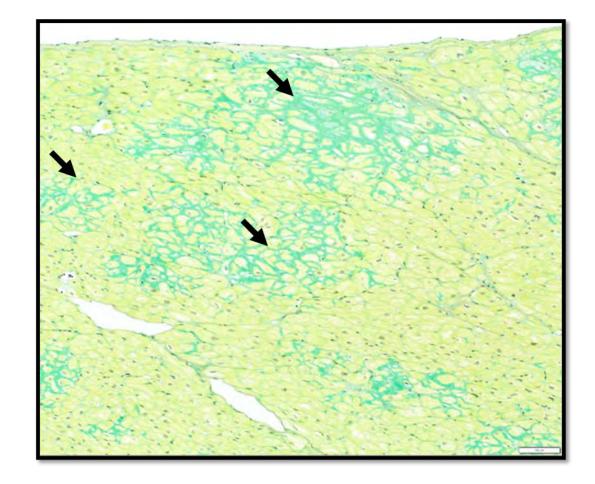






Acronym courtesy of Dr. Dan Judge, shared by Dr. Martha Grogan, Mayo Clinic Rochester

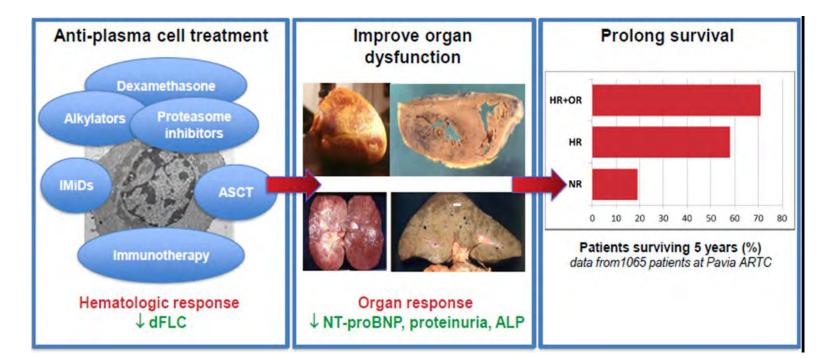






Goal of Treatment in AL-Amyloidosis

Target the diseased plasma cell clone to improve organ function and prolong survival



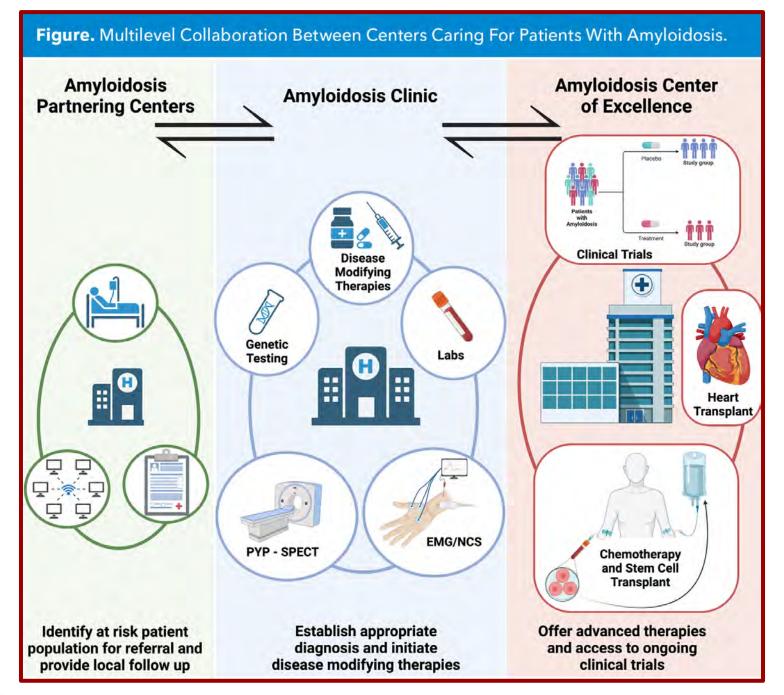
FLCs= monoclonal free light chains HR= hematologic response OR= organ response NR= no response CR= complete response NT-ProBNP= N-terminal pro-B-type naturiuretic peptide ALP= alkaline phosphatase

Deeper Hematologic Response ↑ Organ Response HR + OR = Longer Survival



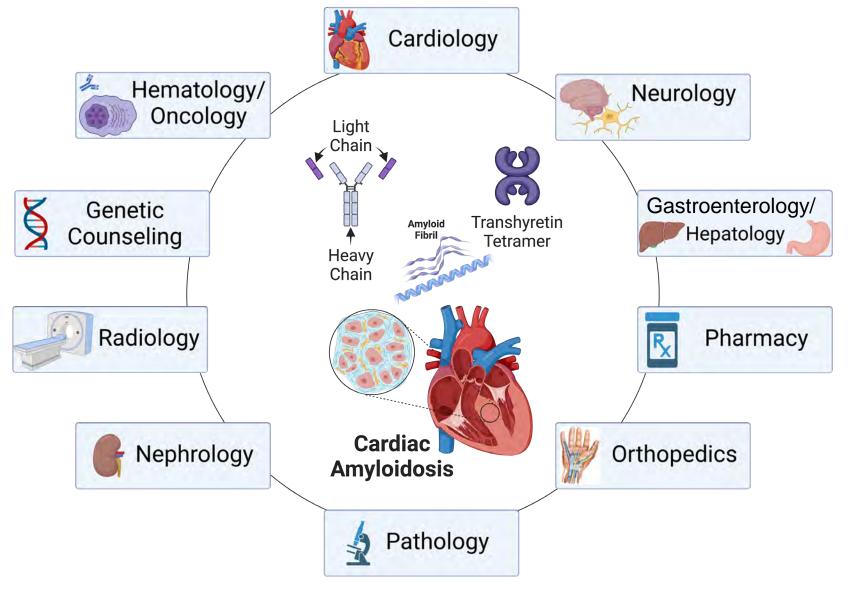


A Multidisciplinary Approach is Key





Team will Vary by Institution





Bridging the Knowledge Gap

Delayed Diagnosis

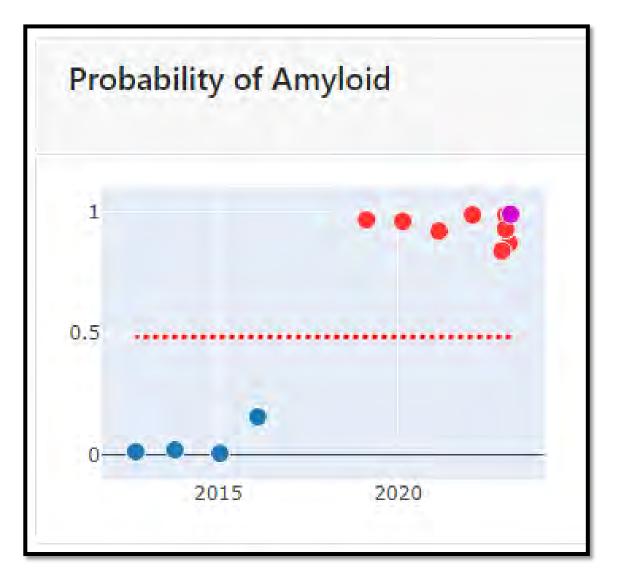
EDUCATION + SCREENING TOOLS

Complex Diagnosis

Multi-Organ Involvement & Complex Therapies



Artificial Intelligence



L AI Dashboard

Show images for ECG 12 Lead





Artificial Intelligence—Enhanced Electrocardiogram for the Early Detection of Cardiac Amyloidosis

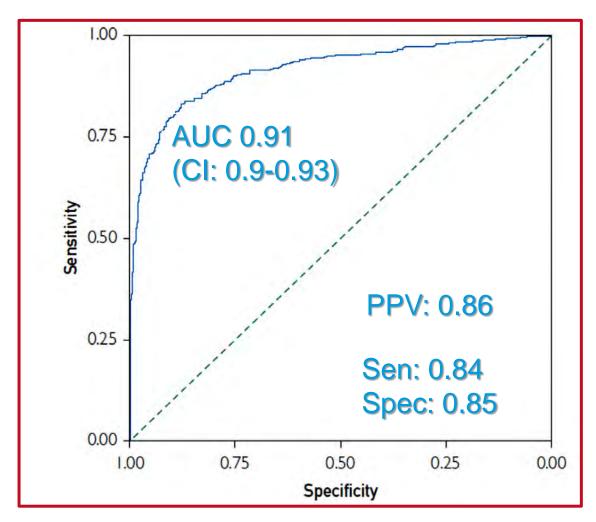
Martha Grogan, MD; Francisco Lopez-Jimenez, MD; Michal Cohen-Shelly, BSc; Angela Dispenzieri, MD; Zachi I. Attia, PhD; Omar F. Abou Ezzedine, MD, CM, MS; Grace Lin, MD; Suraj Kapa, MD; Daniel D. Borgeson, MD; Paul A. Friedman, MD; and Dennis H. Murphree Jr, PhD

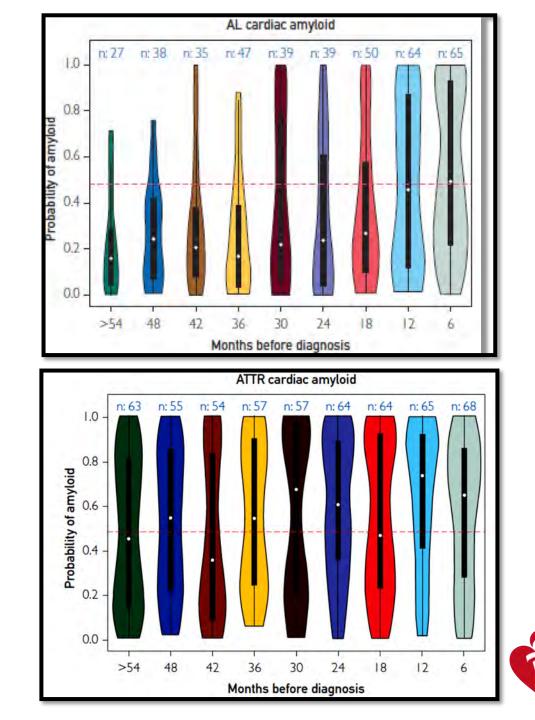


ORIGINAL ARTICLE

Check for updates

AI EKG - Model





Benefits of Screening

- •Screening awareness & recognition
- Implementation of screening —> improved diagnostic accuracy
- Earlier diagnosis Initiation of therapy
 Potential change in clinical course



Delayed Diagnosis

Complex Diagnosis

DIAGNOSTIC ALGORITHMS

Multi-Organ Involvement & Complex Therapies



Delayed Diagnosis

Complex Diagnosis

Multi-Organ Involvement & Complex Therapies

MULTIDISCIPLINARY APPROACH





EDUCATION + SCREENING TOOLS

Complex Diagnosis

DIAGNOSTIC ALGORITHMS

Multi-Organ Involvement & Complex Therapies

MULTIDISCIPLINARY APPROACH





Strengthening Patient Advocacy

Summary & Key Takeaways

- Suspect amyloid: LV wall thickness ≥ 12 mm and clinical clues
- Know the diagnostic algorithm for cardiac amyloid: Rule out AL first!
- AL-Amyloidosis is a medical emergency!
- Avoid diagnostic pitfalls (such as interpreting cardiac scintigraphy in the setting of abnormal monoclonal light chain testing)





Forum Survey Insights & Innovative Solutions to Challenges

Kevin M. Alexander, MD

Assistant Professor of Medicine Advanced Heart Failure and Transplant Cardiology Stanford Amyloid Center Stanford Medicine @KMAlexanderMD





Measuring Impact & Guiding Future Action

Pre Forum Survey Objectives:

- Assess baseline provider awareness and disease knowledge.
- \checkmark Identify existing barriers in the patient pathway.

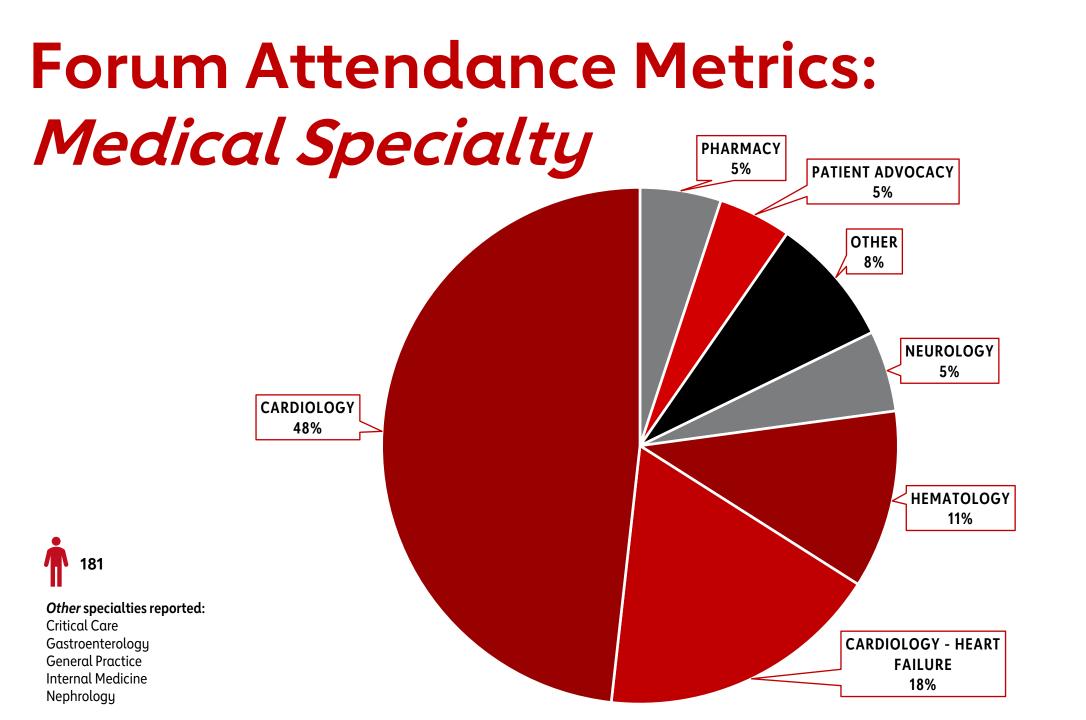
Post Forum Survey Objectives:

- Evaluate forum impact.
- Gather feedback on forum content and format.

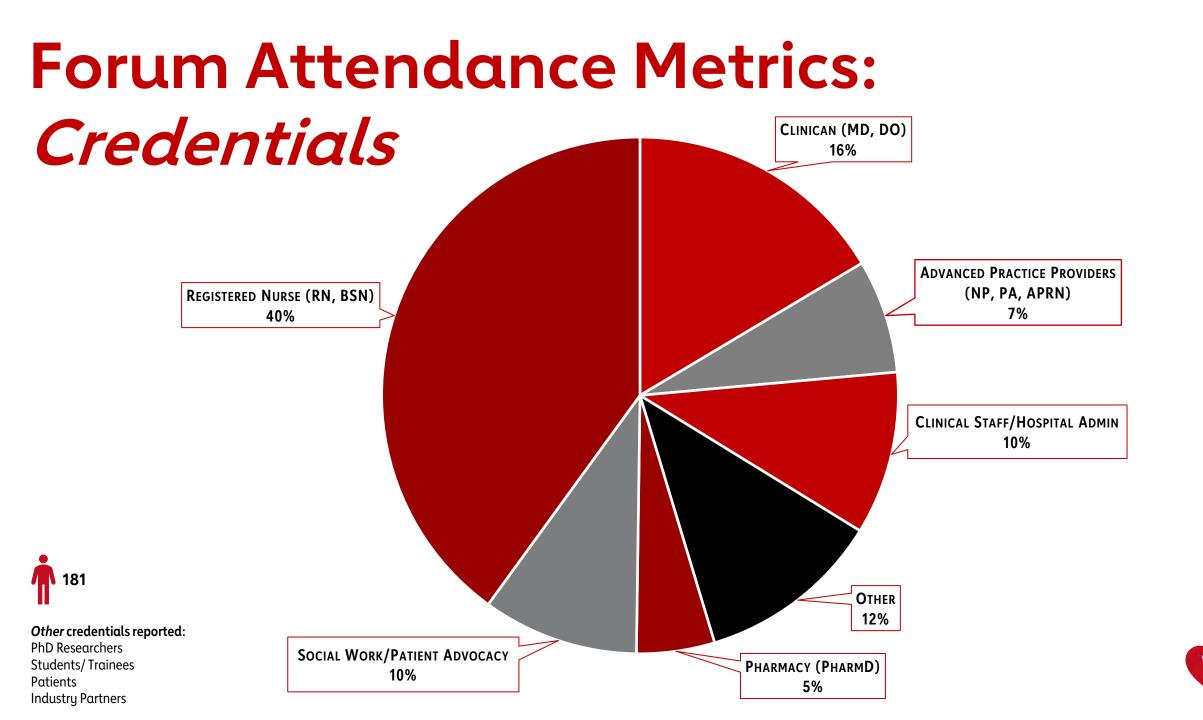




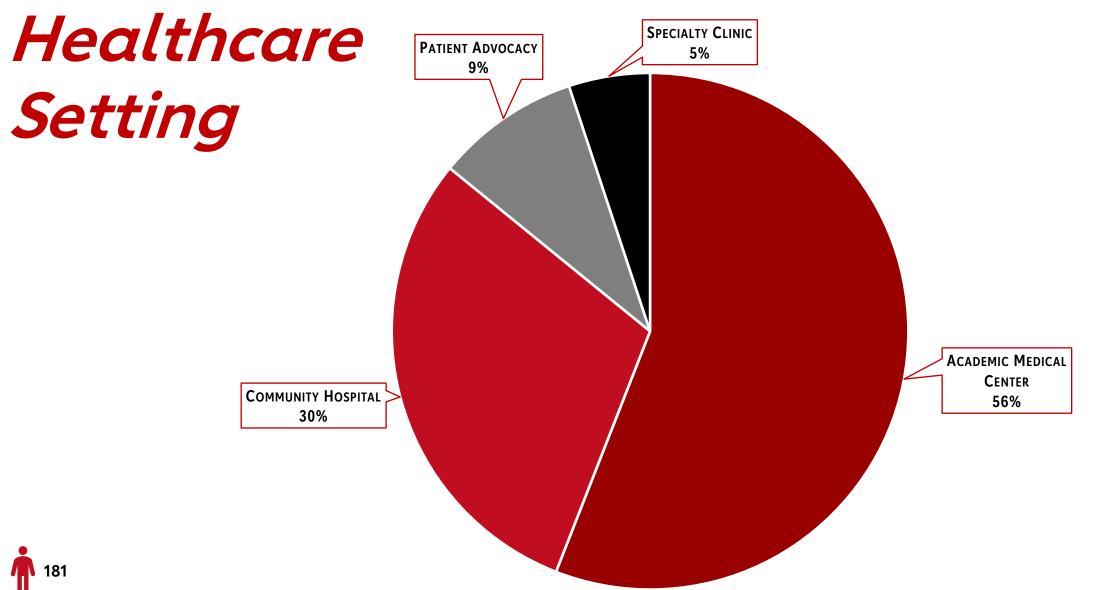
Forum Attendee Metrics





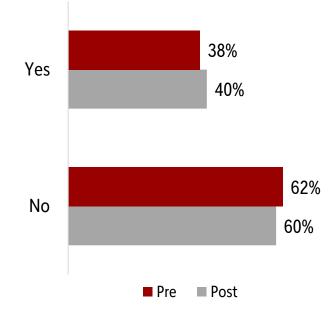


Forum Attendance Metrics:

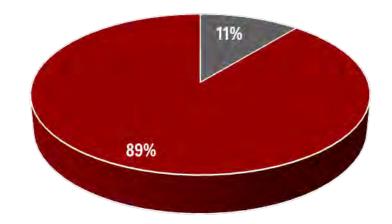


Institutional Characteristics

Does respondent's organization have an Amyloid Center?



Are you currently involved in any research related to AL-Amyloidosis?







- ••••
- • • •
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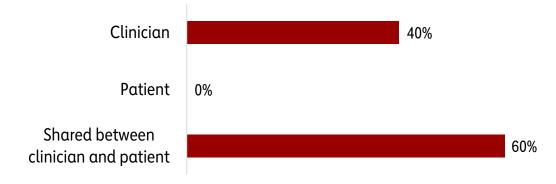


Disease Management

Shared Decision-Making and Patient Preparedness

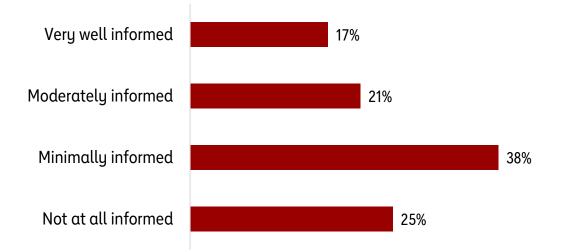
PRE

In your experience, who typically leads the treatment decision-making process in AL-Amyloidosis?



PRE

On average, how well informed are patients about their AL-Amyloidosis treatment options before discussing them with their clinician?





Bridging the Knowledge Gap

Nearly **3** in **4** providers cited low disease awareness as the top barrier.

It's time to strengthen recognition and remove obstacles to timely care!

74%





PRE

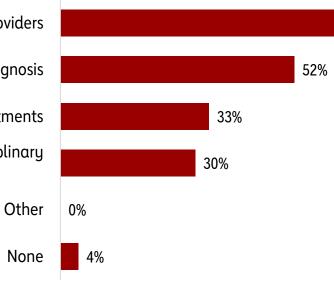
What are the main barriers you face in the evaluation and management of AL-Amyloidosis patients?

Lack of awareness among healthcare providers

Delayed diagnosis

Financial or logistical barriers to accessing treatments

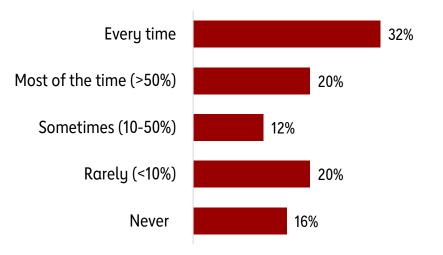
Delayed referral to Hematology or Multidisciplinary Care Center



Evolving Referral Practices

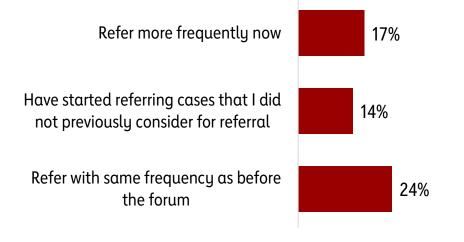
PRE

How often do you typically refer a suspected or newly diagnosed AL-Amyloidosis patient to a multidisciplinary treatment program?



POST

Since attending the forum, what changes have you made or plan to make in your approach to referring suspected or newly diagnosed AL-Amyloidosis patients to a multidisciplinary treatment program?



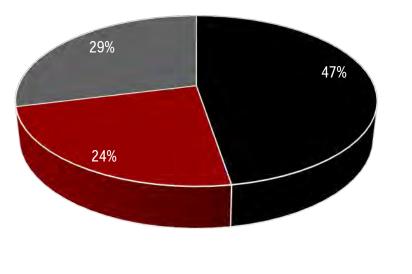
A third of respondents have started referring suspected or newly diagnosed patients more frequently or have started referring cases that did not previously consider for referral.

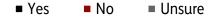


Institutional Protocols

PRE

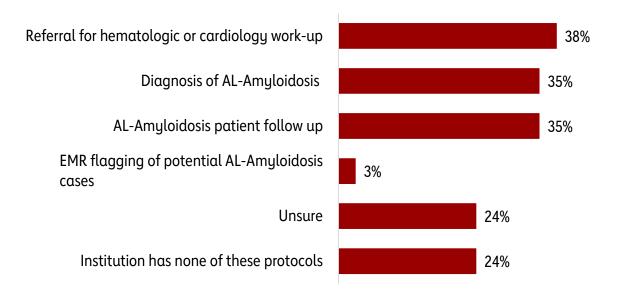
Does respondent's institution have standard protocols for diagnostic work-up of AL-Amyloidosis?





PRE

Respondent's institution has these protocols.





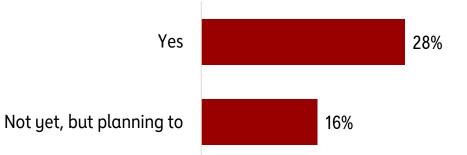
Turning Awareness Into Action: Institutional Protocols in Motion

44% of respondents have either implemented or are planning to implement new diagnostic protocols or referral pathways.

POST

Since attending the forum, have you implemented or considered implementing any new diagnostic protocols or referral pathways for AL-Amyloidosis patients at your institution?



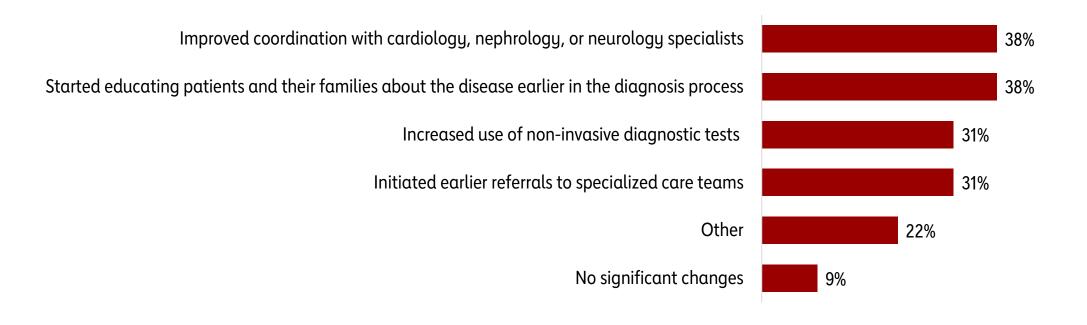




Turning Awareness Into Action: Institutional Protocols in Motion

POST

Since attending the forum, what changes have you made or plan to make to your clinical approach for managing AL-Amyloidosis?





Turning Awareness Into Action: Institutional Protocols in Motion

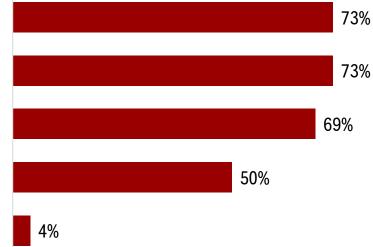
POST

Following the forum, what actions do you plan to take with your team to improve outcomes for patients with AL-Amyloidosis?

Other

Enhancing coordination of treatment decisions across multiple specialties Ensuring all suspected Amyloidosis patients are promptly screened for Serum Free Light Chains & Serum/Urine Immunofixation Developing standard protocols for the diagnosis, treatment, and/or management of AL Amyloidosis patients

Strengthening referral networks to improve patient access to specialized care



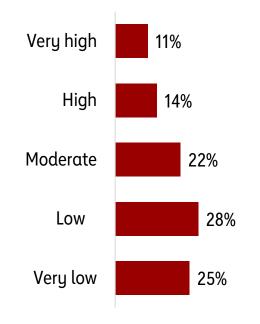


Disease Confidence & Education Impact

'Pre-Survey: Respondents' Confidence

PRE

Please rate your level of confidence in diagnosing AL-Amyloidosis.



Over **half** of respondents reported low or very low confidence in diagnosing AL-Amyloidosis prior to the forum.

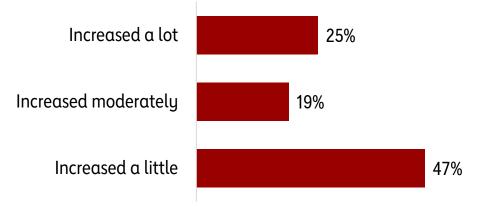
This underscores the need for targeted education and support.



Confidence Boost: What Providers Gained from the Forum

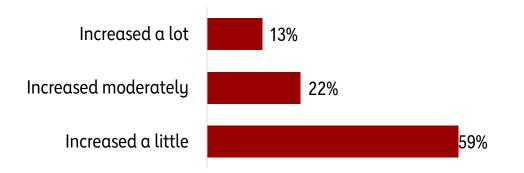
POST

Since attending the AL-Amyloidosis National Patient to Provider Connection Forum, to what extent has your confidence in diagnosing AL-Amyloidosis changed?



POST

Since attending the forum, to what extent has your confidence interpreting results from diagnostic tests to confirm AL-Amyloidosis changed?





Nearly all respondents reported an increase in their confidence in diagnosing AL-Amyloidosis and a quarter reported their confidence increased "a lot."

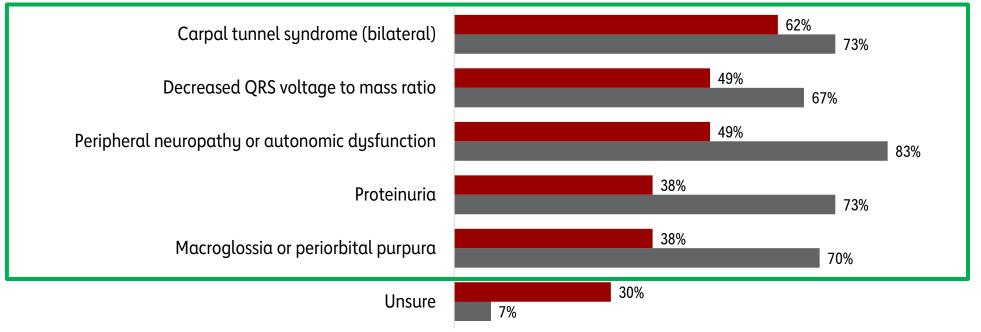


Fewer respondents reported their confidence in interpreting diagnostic tests increased "a lot" or "moderately" (35%) compared to increases in confidence in diagnosing (44%).



Pre vs Post: Respondents' Knowledge

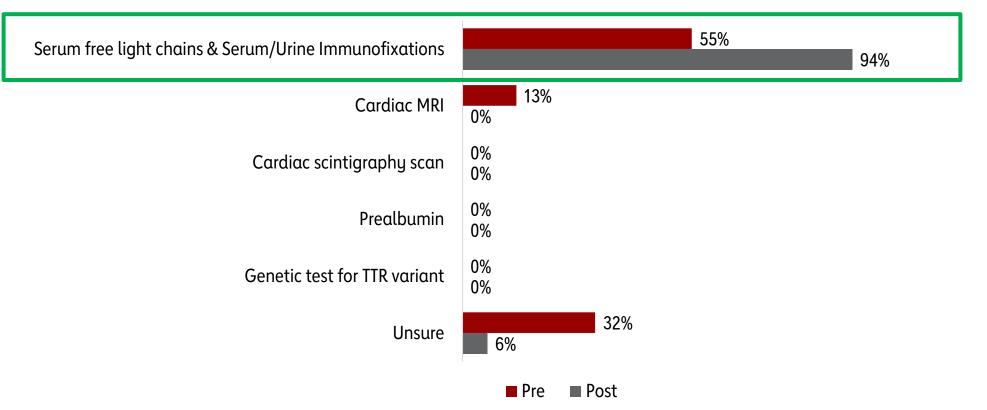
What symptoms or combination of clinical presentations most commonly trigger suspicion of AL-Amyloidosis?





Pre vs Post: Respondents' Knowledge

What is the initial test(s) you should order if there is suspicion for AL-Amyloidosis?



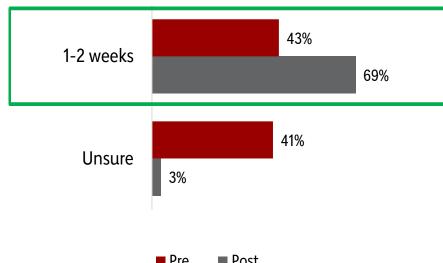


Nearly all post-forum respondents selected the correct initial test compared to just over half of pre-forum respondents.

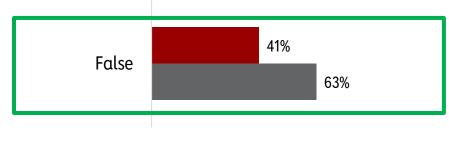


Pre vs Post: Respondents' Knowledge

Once you suspect AL-Amyloidosis, which time frame is most appropriate to complete initial diagnostic testing?



AL-Amyloidosis can be diagnosed without a biopsy.



Pre Post



Pre Post



Respondents' Perspectives

Respondents' Perspectives

POST

Which strategies do you think would be most effective in improving the adoption of AL-Amyloidosis best practices at your institution?¹

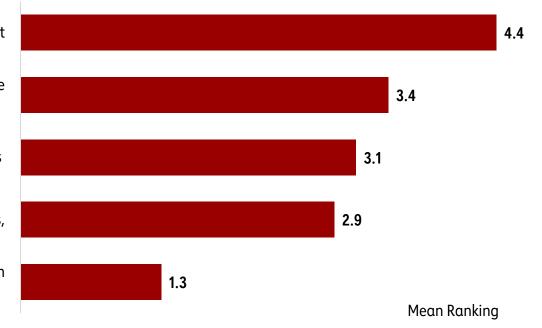
A. Developing and implementing standardized clinical protocols for diagnosis and treatment

B. Regular multidisciplinary team meetings to review patient cases, share updates, and align care strategies

C. Incorporating new diagnostic tools and order sets into EMR systems

D. Continuous education and training sessions for non-specialist clinicians, early career professionals, and trainees to enhance their knowledge of AL-Amyloidosis symptom awareness, diagnosis, and management

E. Engaging in outreach to community providers to improve diagnostic timelines and strengthen referral networks

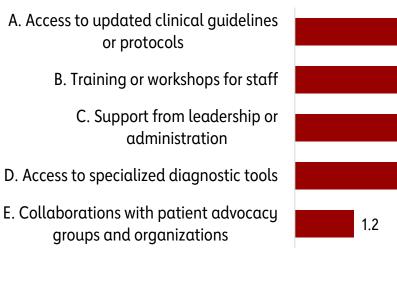


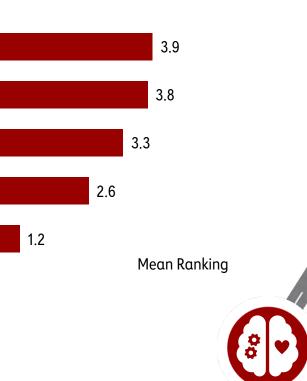


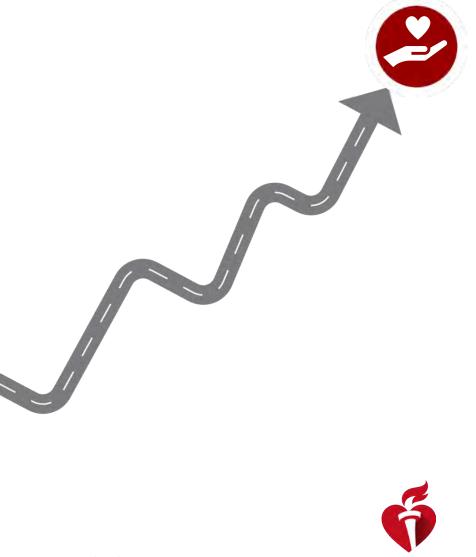
Respondents' Perspectives

POST

What type of support or resources would be most helpful in implementing the insights gained from the forum at your institution?¹







Summary & Key Takeaways

Forum insights show measurable improvements and ongoing needs in:

- Disease awareness
- Provider knowledge
- Clinical confidence
- Institutional protocols

Critical gaps still exist -continued action is **essential**.

Let this data spark your next conversation, referral, or care initiative.





AL-Amyloidosis Educational Toolkit Launch

Mathew Maurer, MD

Professor of Medicine, Arnold and Arlene Goldstein Professor of Cardiology, NewYork-Presbyterian/Columbia University Irving Medical Center





AL-Amyloidosis Educational Toolkit

- ✓ Quick Reference Guide
- Clinician Pocket Card
- Patient Advocacy Resources
- Educational Recordings & Presentation Materials

Toolkit & Resources can be accessed at:

https://www.heart.org/AL-Amyloidosis



AL-Amyloidosis Educational Toolkit



In collaboration with expert panelists, researchers, and advocacy organizations, the American Heart Association (AHA) is advancing a nationwide initiative to identify and address critical gaps across the AL-Amyloidosis care continuum—ensuring earlier diagnosis, timely referrals to specialized care, and comprehensive patient support throughout the journey.

Spotlight: Patient Perspective & Expert Voices

At the heart of this initiative are the voices that matter most. Hear from leading clinicians driving progress—and a courageous patient whose story underscores the urgency and human impact of this work.



Quick Reference Guide



AL-Amyloidosis Ouick Reference Guide

Disease Overview

AL-Amyloidosis (Light Chain) is a rare but life-threatening disease caused by abnormal plasma cells producing misfolded light chain proteins. These proteins form amuloid fibrils that deposit in organs - most commonly affecting: Heart, Kidneys, Liver, Gastrointestinal system, Nervous system. This leads to progressive and often irreversible organ dysfunction.

Early suspicion and testing are critical. AL-Amyloidosis often presents with vague symptoms, and delays in diagnosis can result in severe organ failure.

Diagnosis should be treated as a medical emergency as rapid intervention is essential to prevent further damage. Treatment focuses on halting light chain production through: Chemotherapy, Monoclonal antibodies, Stern cell transplantation.

A high index of suspicion and prompt action can significantly improve patient outcomes.

Key Diagnostic Testing

Clinical Clues

Initial Screening Tests Serum free light chains (kappa & lambda) Serum electrophoresis with immunofixation

Urine electrophoresis with immunofixation Troponin T & NT-proBNP Electrocardiogram Echo (with strain imaging)/Cardiac MRI (with and without contrast)

Further Diagnostic Testing

Abdominal fat pad biopsu Bone marrow biopsu Diagnosis confirmation requires a tissue biopsy with Congo red staining to detect amyloid deposits:

· Abdominal fat pad biopsy Bone marrow biopsy Note: If both biopsies are negative but clinical suspicion for AL-Amyloidosis remains high, consider blopsy of the affected organ.

Different Diagnosis

Abnormal Monoclonal Testing Diagnosis Considerations

Monoclonal Gammopathy of undetermined significance Multiple Myeloma, Smoldering Multiple Myeloma, or Light Chain Smoldering Multiple Myeloma Waldenström Macroglobulinemia POEMS Sundrome

General: Weakness, unexplained fatigue, macroglossia

> Hematologic: Easy bruising, periorbital purpura (raccoon eyes)

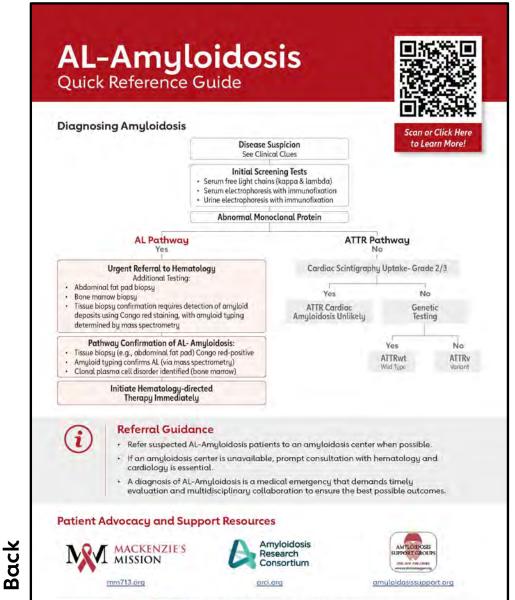
Cardiac: Dyspnea, hypotension, edema. arrhythmias, increased for L-Ventricularwall thickness

Neurologic: Peripheral neuropathy, carpal tunnel sundrome, autonomic dusfunction

Renal Proteinuria. nephratic syndrome. kidney dysfunction

Gastrointestinal: Significant unintentional weight loss, diarrhea/ constipation, malabsorption, unexplained GI bleeding, hepatomegaly

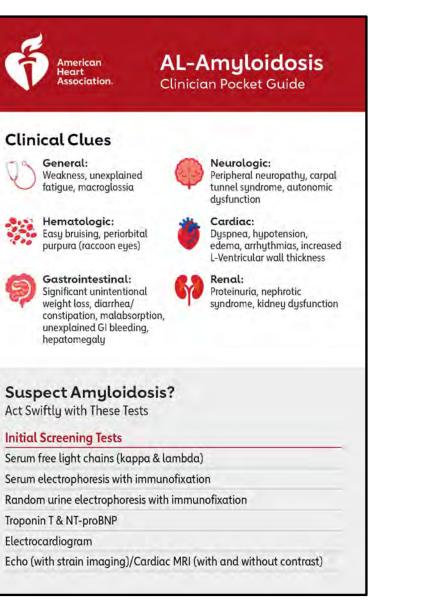
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Front

Clinician Pocket Card



AL-Amyloidosis

Clinician Pocket Guide

(i)

Back

What is AL-Amyloidosis?

AL-Amyloidosis (Light Chain) is a rare plasma cell disorder marked by misfolded immunoglobulin light chains forming amyloid fibrils that deposit in vital organs, causing progressive dysfunction and requiring specialized, multidisciplinary care.

Scan or Click Here

to Learn More!

Early Recognition is Key. Refer Early!

- Refer to an amyloidosis center, if possible, for comprehensive care.
- If an amyloidosis center is unavailable, consult with hematology and cardiology ASAP.
- Multidisciplinary collaboration is critical to improve outcomes!
 - Questions or Referrals? Reach Out To: Contact Info:



Front

How this Toolkit Helps?!



From Awareness to Action — Tools That Make a Difference.



CALL TO ACTION



www.heart.org/AL-Amyloidosis



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Webinar & Forum Recordings

Access recorded sessions from our National AL-Amyloidosis Patient-to-Provider Connection Forum, featuring leading experts, patient advocacy groups, real patient stories, and actionable strategies to improve diagnosis and care delivery.

National AL-Amyloidosis Patient-to-Provider Connection Forum - March 12, 2025
 Presentation Slides (PDF)











Thank you for joining us today!

Recordings of today's webinar and toolkit materials will be enduring resources on <u>www.heart.org/AL-Amyloidosis</u>

