

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



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 www.heart.org

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:

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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 Our Forum Speakers & Panelists!



Linda Perez

Patient Advocate



Yevgeniy Brailovsky, DO, MSc

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



John O. Clarke, MD

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



Mazen Hanna, MD

Cleveland Clinic Co-Director, Amyloidosis Center



Heather J. Landau, MD

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



Jai Radhakrishnan, MD, MS

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



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



Deborah D. Boedicker, CFA

Mackenzie's Mission &
Amyloidosis Speakers Bureau
Board Member



Muriel Finkel

Amyloidosis Support Groups
President & Co-Founder



Isabelle Lousada

Amyloidosis Research Consortium Founder and CEO



Naim Essam Bideiwy, FNP-C, MSN

NewYork-Presbyterian/Columbia University
Irving Medical Center
Cardiology



Tammy Reideler, MSN, RN, OCN

Mayo Clinic Hospital - FLAcute 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

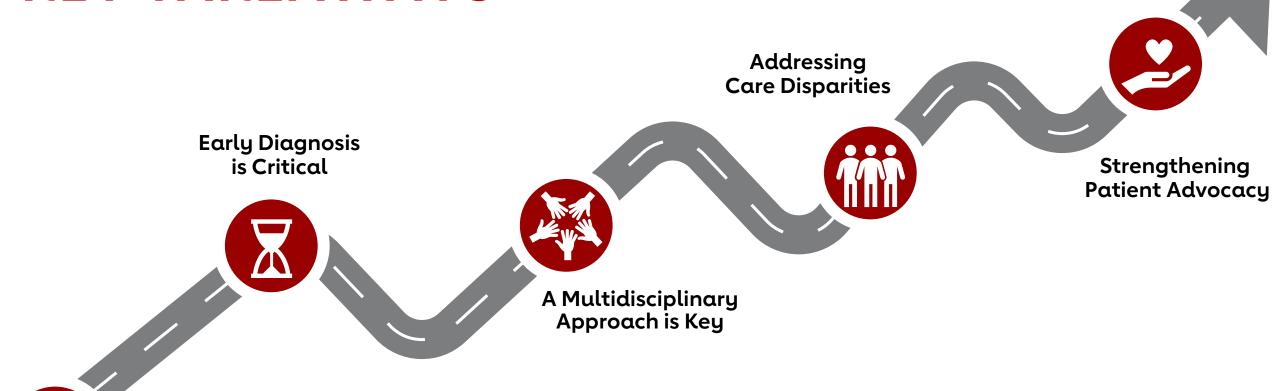
Assistant Professor of Medicine Division of Advanced Heart Failure and Transplantation Mayo Clinic Florida



National AL Amyloidosis Patient-to-Provider Connection Forum:

KEY TAKEAWAYS

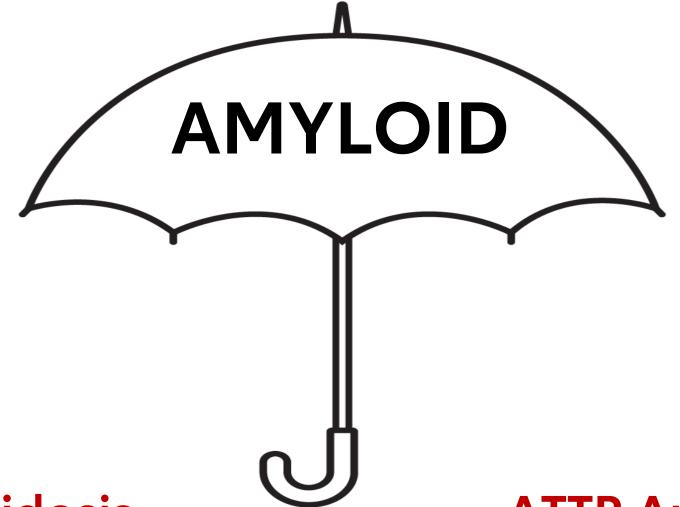
Bridging the Knowledge Gap







AL Amyloidosis Disease Overview



AL Amyloidosis

Protein: Immunoglobulin light chain

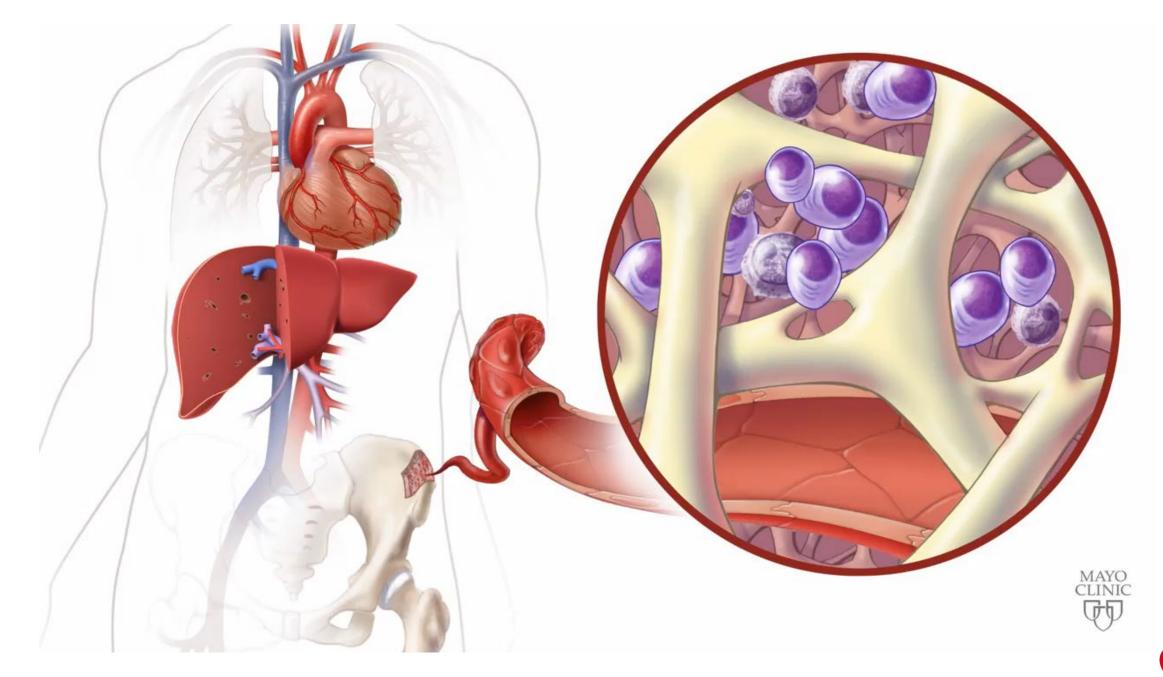
Protein Factory: Plasma Cells in bone marrow

ATTR Amyloidosis

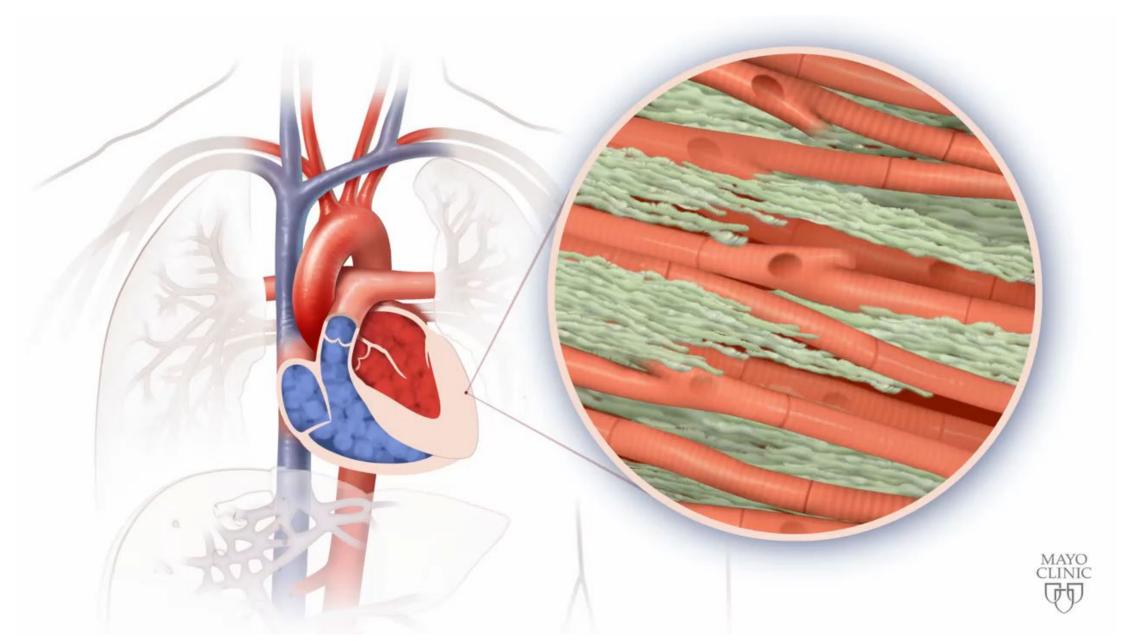
Protein: Transthyretin (TTR)

Protein Factory: Liver

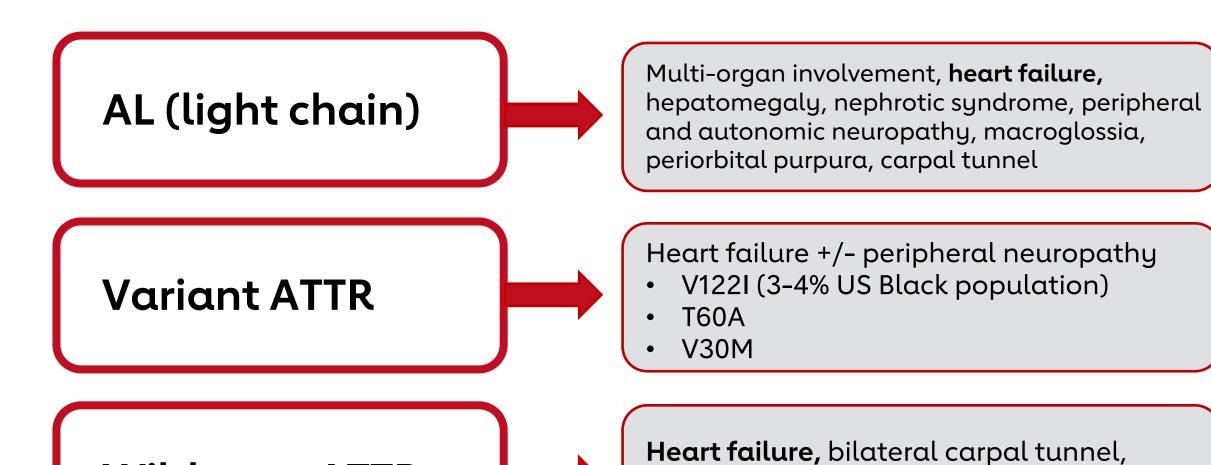












biceps tendon rupture, spinal stenosis,

atrial fibrillation



Wild type ATTR

Prevalence

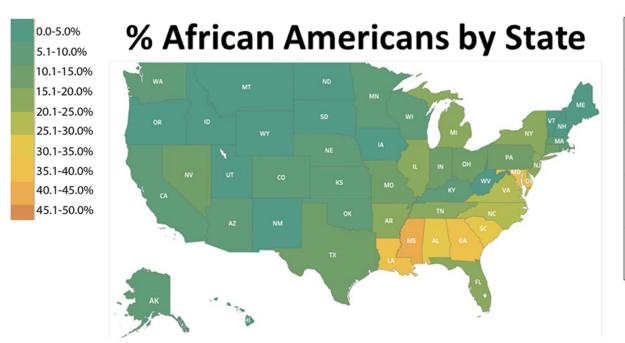
- Estimated annual incidence 1 in 75,000-100,000
- Prevalence 1 in 25,000
- 75% cardiac involvement
- •1 in 7 patients with multiple myeloma have concomitant AL amyloidosis



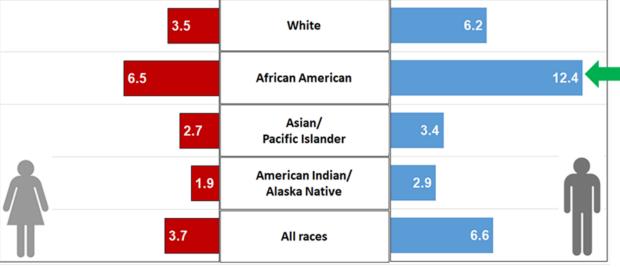


Addressing Care Disparities

Disproportionate Impact and Underdiagnosis in Black Individuals

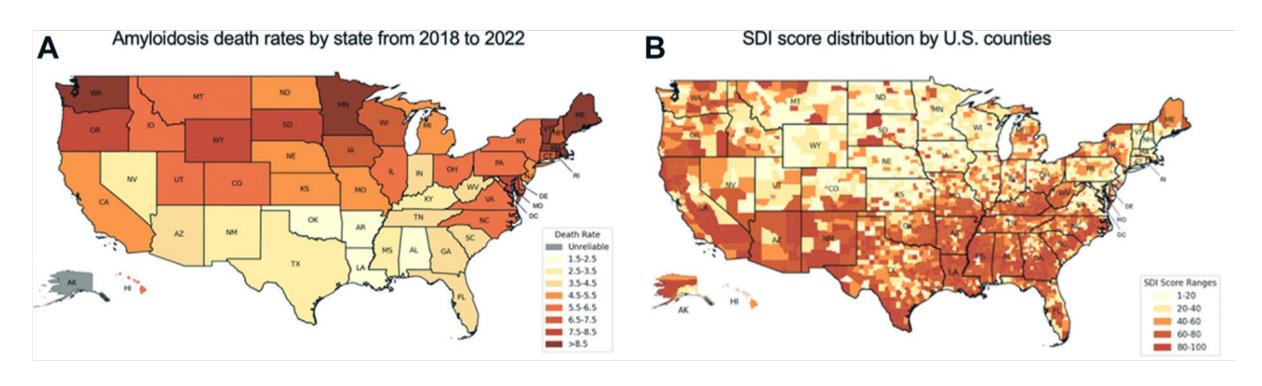


Age-adjusted amyloidosis mortality rate per 1,000,000





Cardiac Amyloidosis Is Disproportionately Underdiagnosed in Socially Vulnerable Areas







Early Diagnosis is Critical

Diagnostic Approach

1. Left ventricular wall thickness ≥ 12 mm



2. ≥1 Clinical Clues



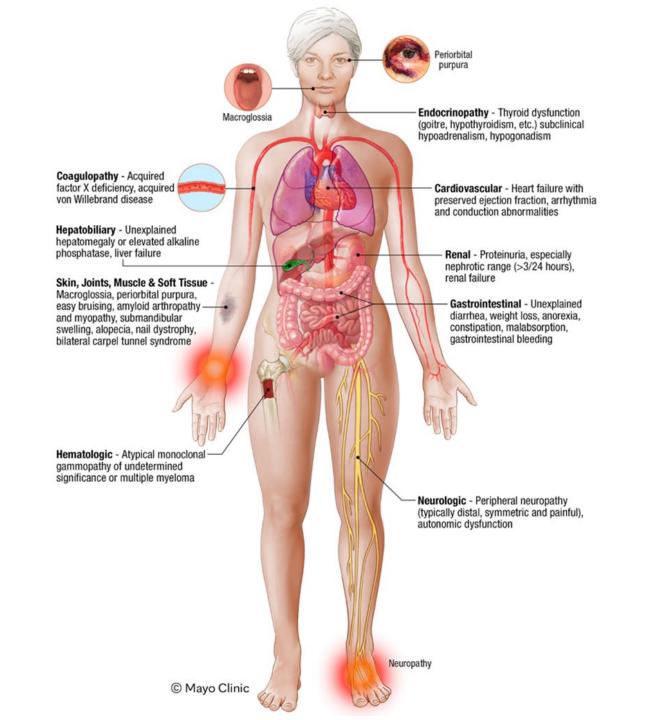


Clinical Clues

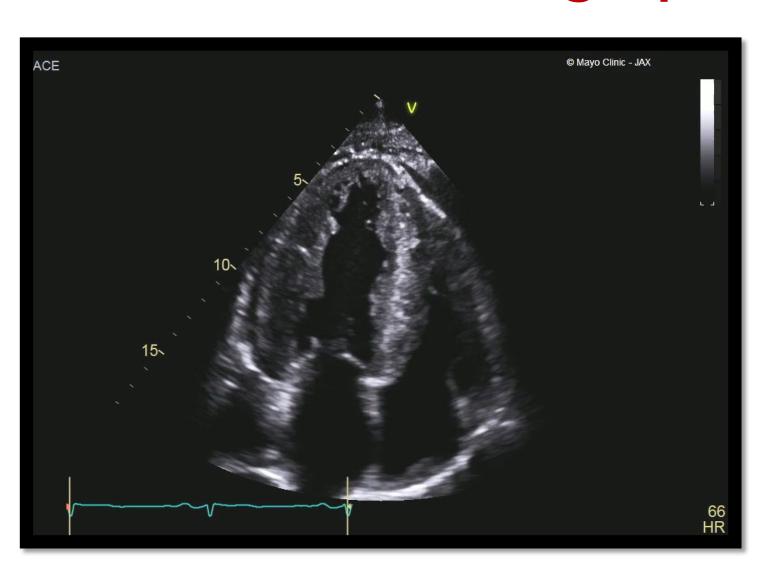


- Heart failure ≥ 65 years
- Aortic stenosis in ≥ 65 years
- Autonomic dysfunction
- Peripheral polyneuropathy
- Bilateral carpal tunnel syndrome
- Ruptured biceps tendon
- Perioral/periorbital purpura
- Macroglossia

- 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



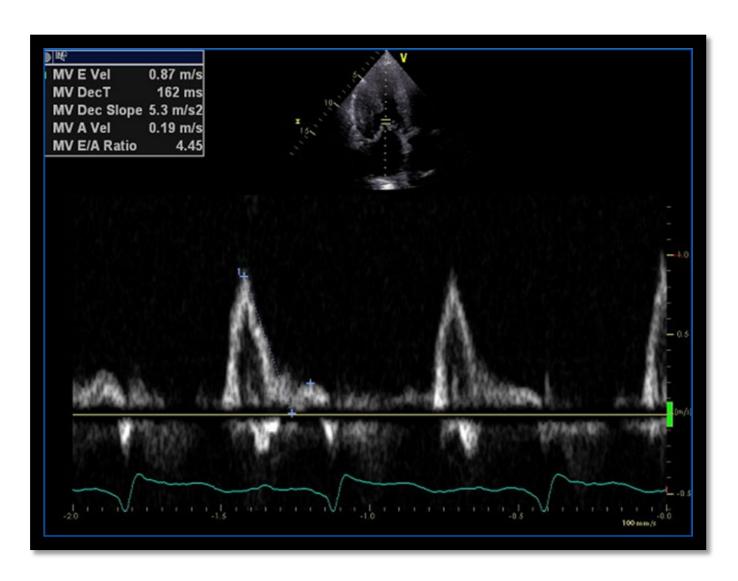
Echocardiographic Features



- Concentric biventricular wall thickness
- Bi-atrial enlargement
- Thickened valve leaflets and interatrial septum
- Pericardial effusion

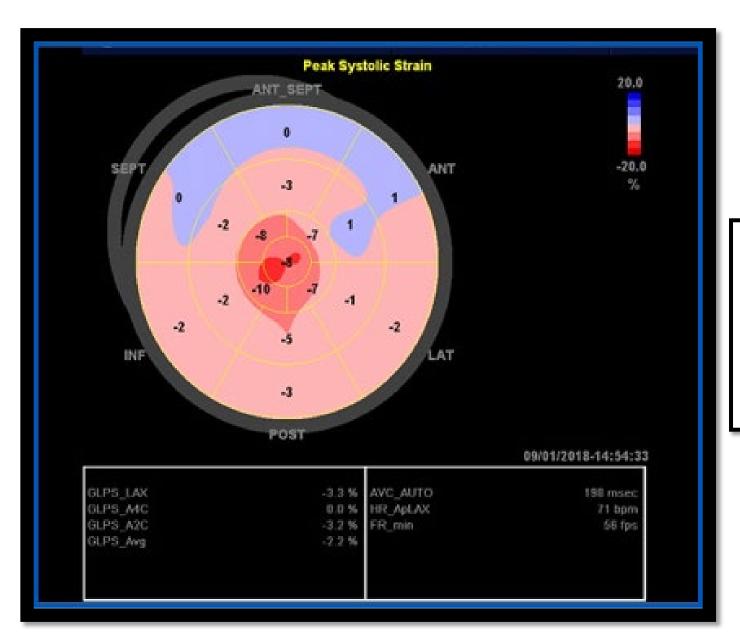


Echocardiographic Features



- 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

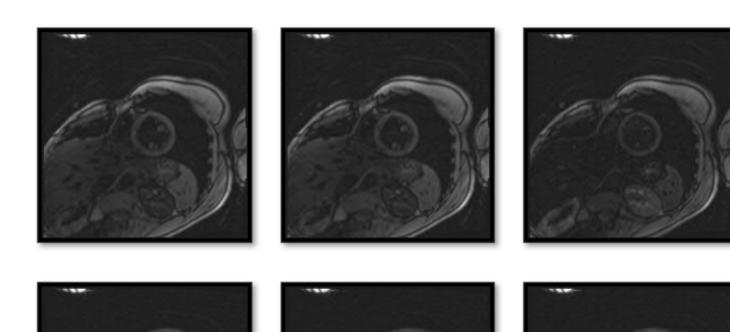


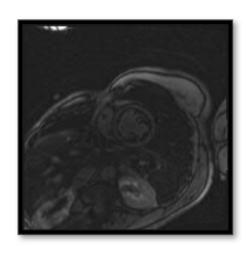
Cardiac Magnetic Resonance

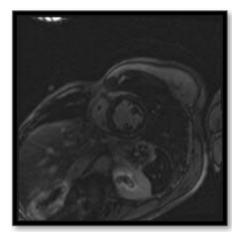


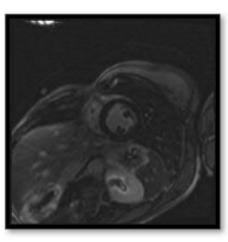


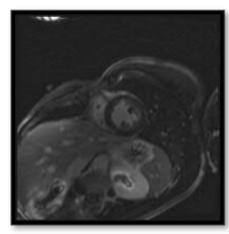
Normal Nulling Pattern

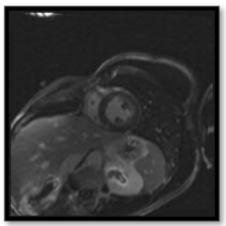


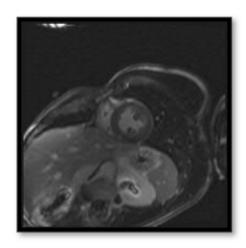


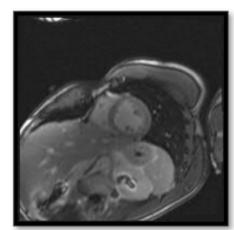




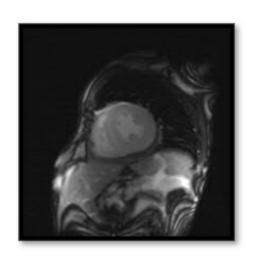


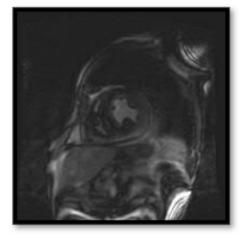


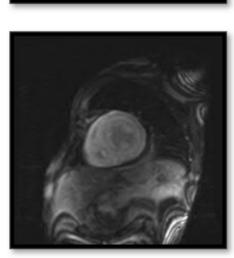


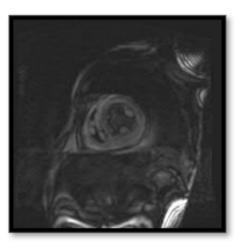


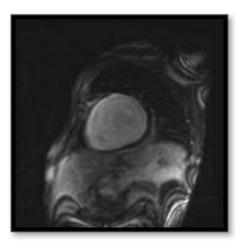
Abnormal Nulling Pattern

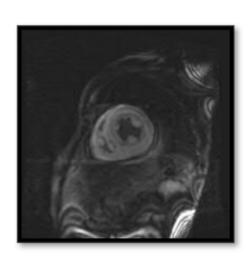


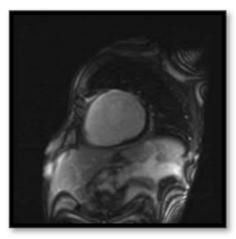












WHAT TO DO NEXT?

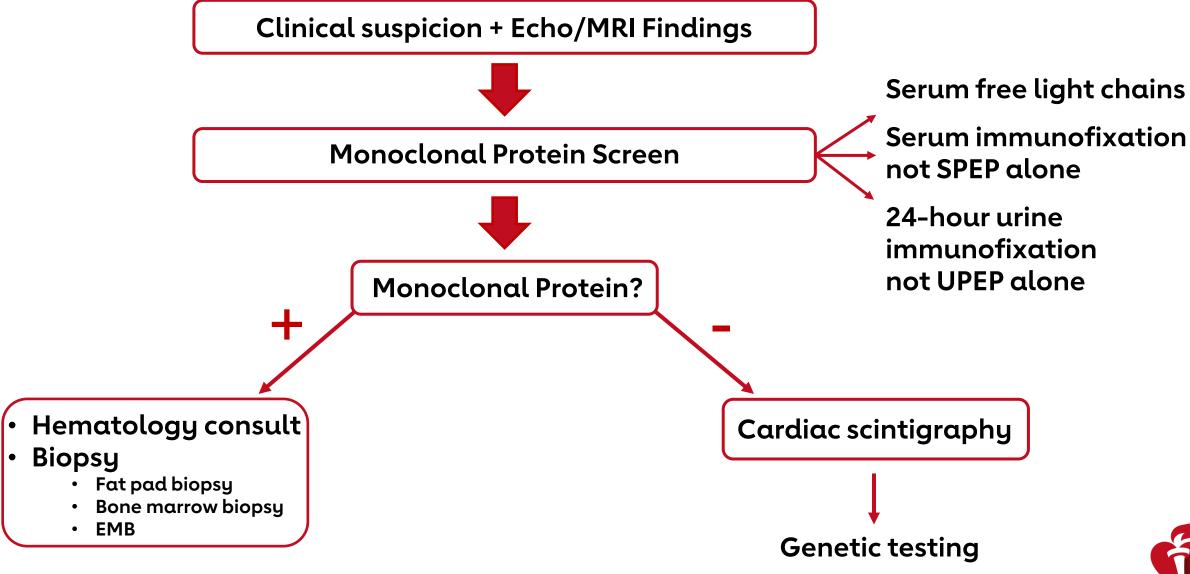


Blood Tests to Screen for Amyloid?

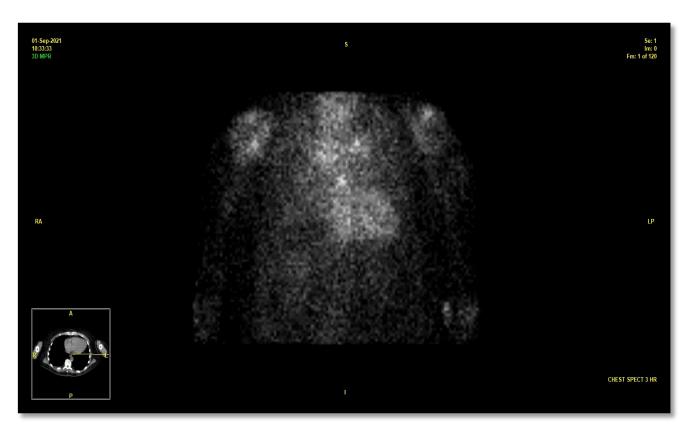
- 1. CBC with differential
- 2. Prealbumin
- 3. Serum free light chains
- 4. Beta-2 microglobulin



Diagnostic Algorithm



Cardiac Scintigraphy



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



No

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;

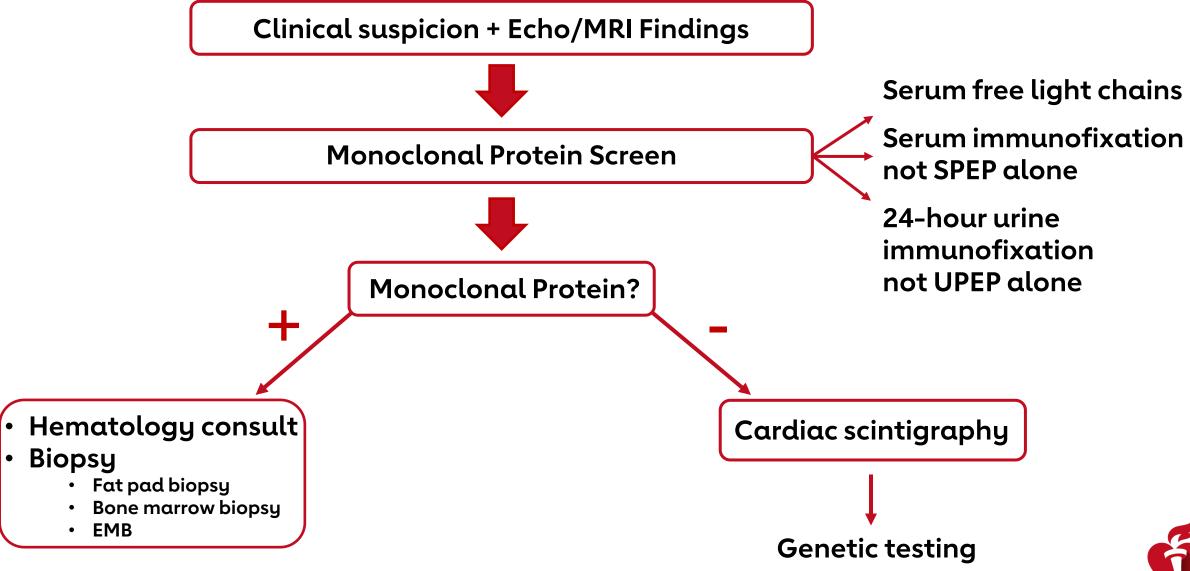
Monoclonal gammopathy must be excluded to use cardiac scintigraphy

Table 4 Possible false positives and false negatives of bisphosphonate scintigraphy for detecting transthyretin cardiac amyloidosis

	Situation	How to suspect and confirm?
False positive	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	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, light-chain amyloidosis; ATTRv, hereditary transthyretin amyloidosis; SPECT, single photon emission computed tomography; SPIE, serum protein electrophoresis with immunofixation; UPIE, urine protein electrophoresis with immunofixation.

Diagnostic Algorithm

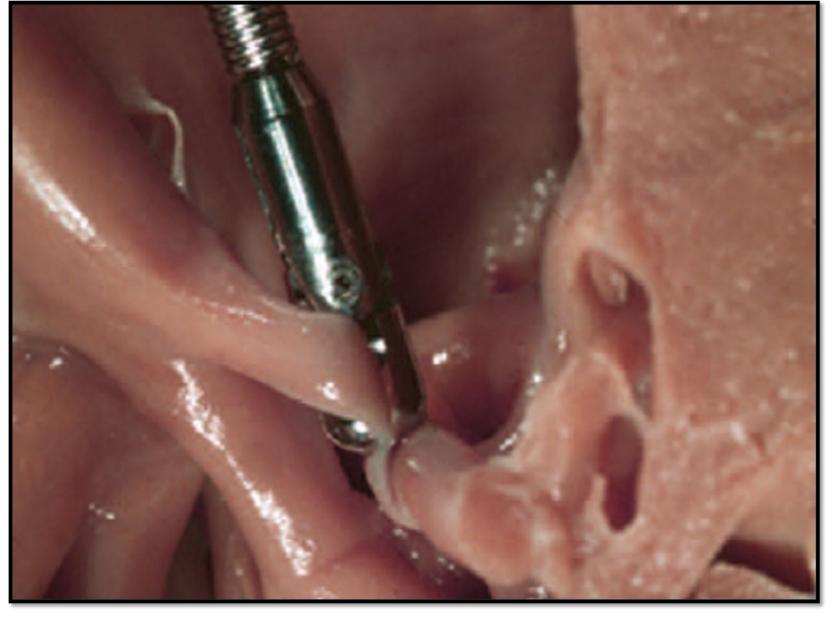


M — Must

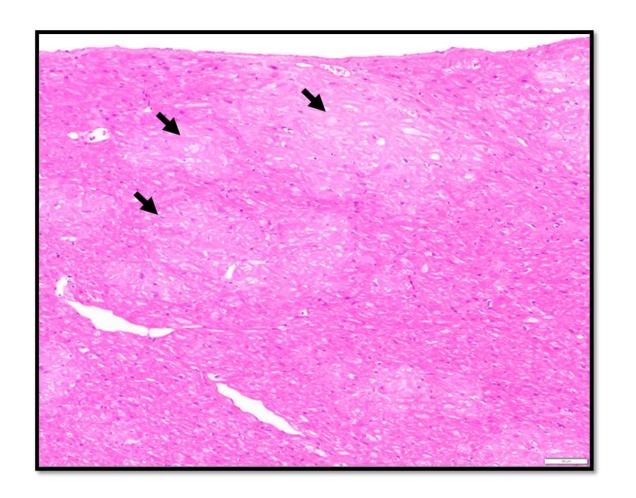
G — Go

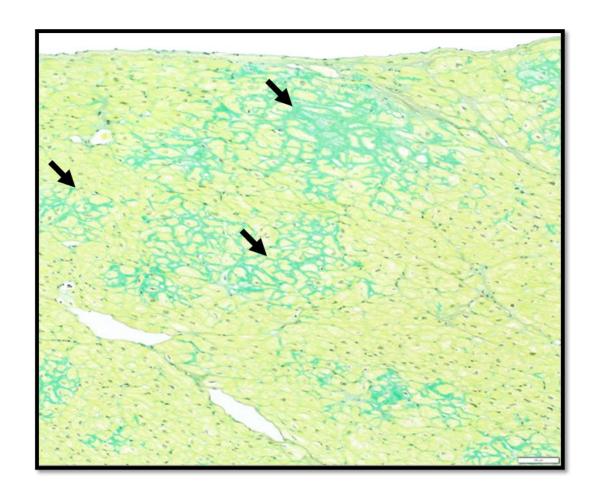
U — Under

S— Skin



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

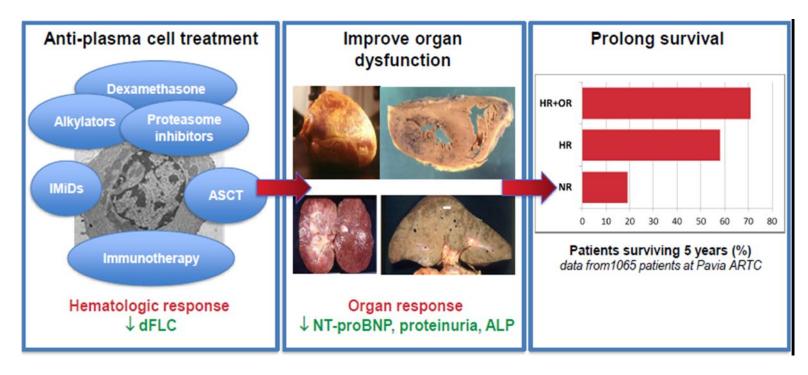






Goal of Treatment in AL Amyloidosis

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

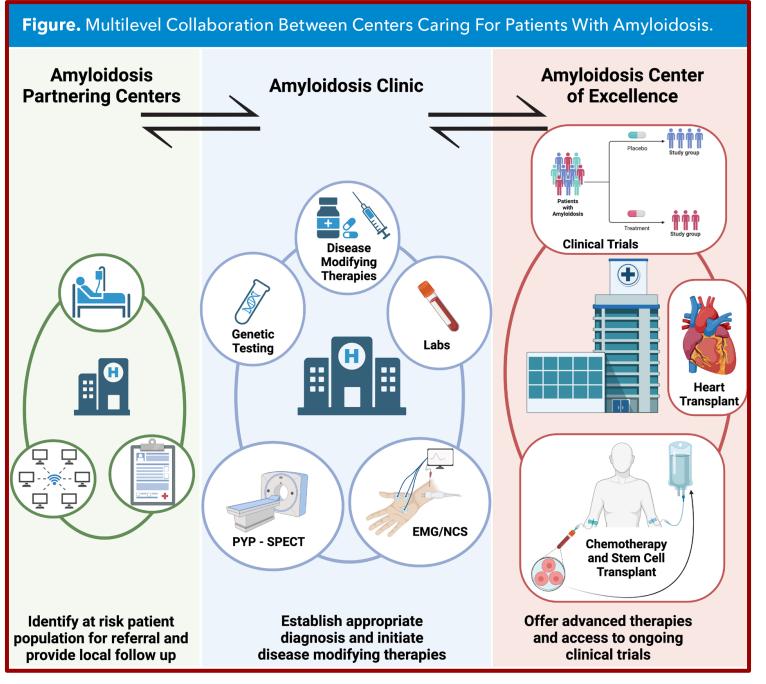
Deeper Hematologic Response

↑ Organ Response HR + OR = Longer Survival



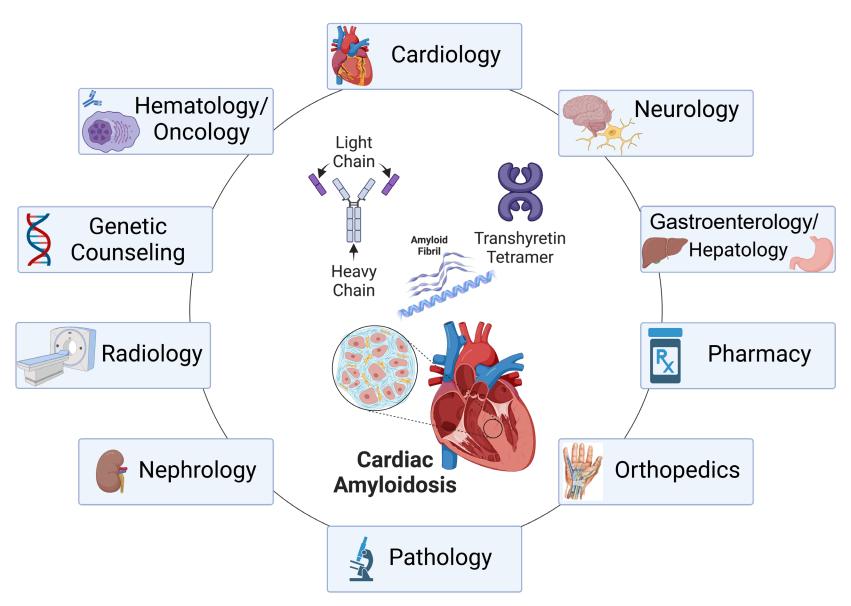


A Multidisciplinary Approach is Key





Team will Vary by Institution







Bridging the Knowledge Gap

Delayed Diagnosis

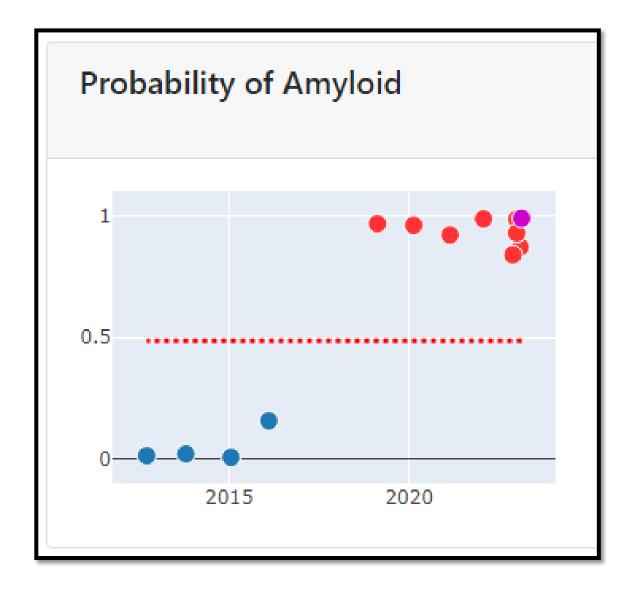
EDUCATION + SCREENING TOOLS

Complex Diagnosis

Multi-Organ Involvement & Complex Therapies



Artificial Intelligence





♣ Show images for ECG 12 Lead



ORIGINAL ARTICLE



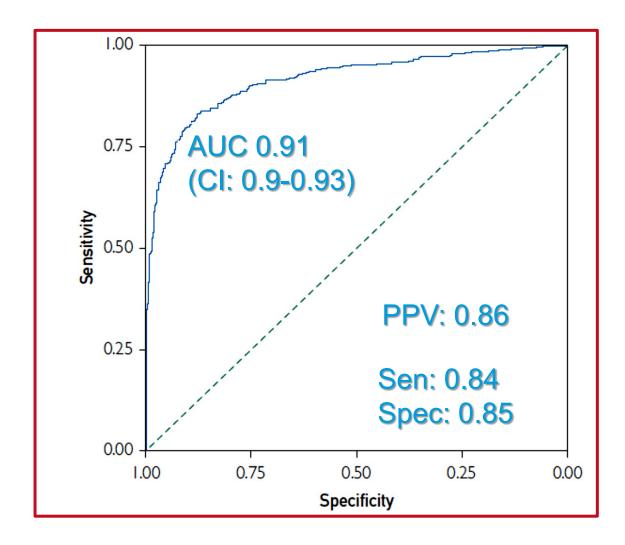


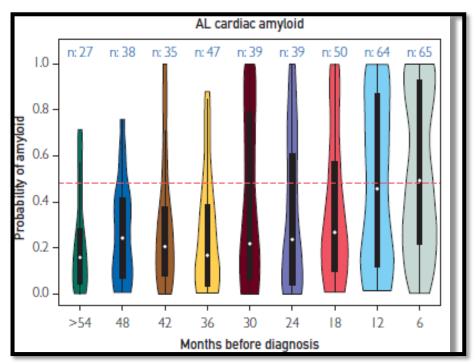
Artificial Intelligence—Enhanced Electrocardiogram for the Early Detection of Cardiac Amyloidosis

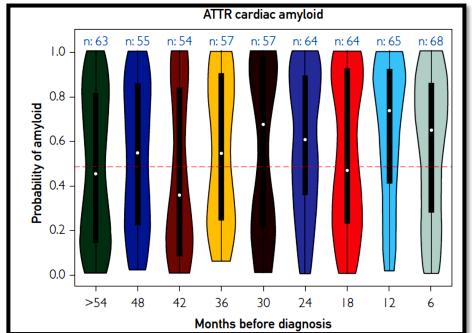
Martha Grogan, MD; Francisco Lopez-Jimenez, MD; Michal Cohen-Shelly, BSc; Angela Dispenzieri, MD; Zachi I. Attia, PhD; Omar F. Abou Ezzedine, MD, CM, MS; Grace Lin, MD; Suraj Kapa, MD; Daniel D. Borgeson, MD; Paul A. Friedman, MD; and Dennis H. Murphree Jr, PhD



AI EKG - Model









Benefits of Screening

- •Screening awareness & recognition
- Implementation of screening
 — improved diagnostic accuracy
- Earlier diagnosis
 - Initiation of therapy
 - o 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



Delayed Diagnosis

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)

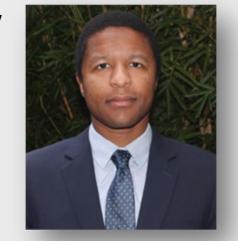




Forum Survey Insights & Innovative Solutions to Challenges

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.
- ✓ Identify existing barriers in the patient pathway.

Post Forum Survey Objectives:

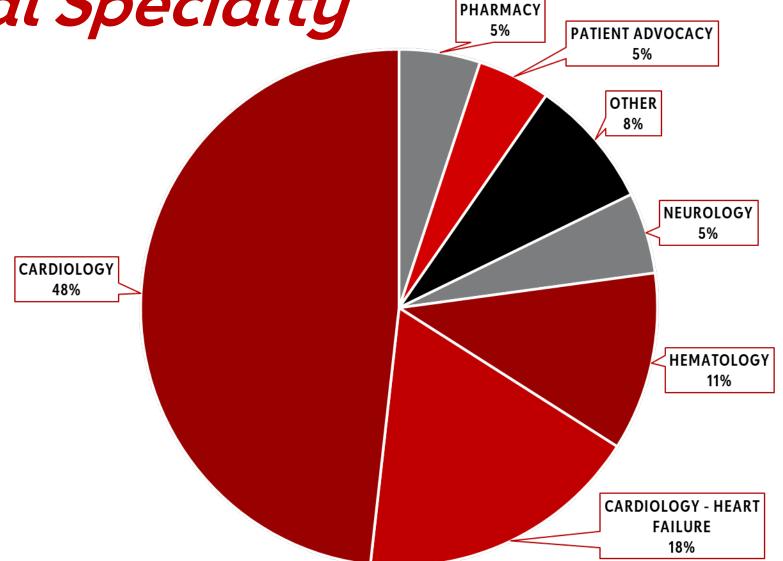
- ✓ Evaluate forum impact.
- ✓ Gather feedback on forum content and format.





Forum Attendee Metrics

Forum Attendance Metrics: Medical Specialty PHARMACY 5% DATIENT A



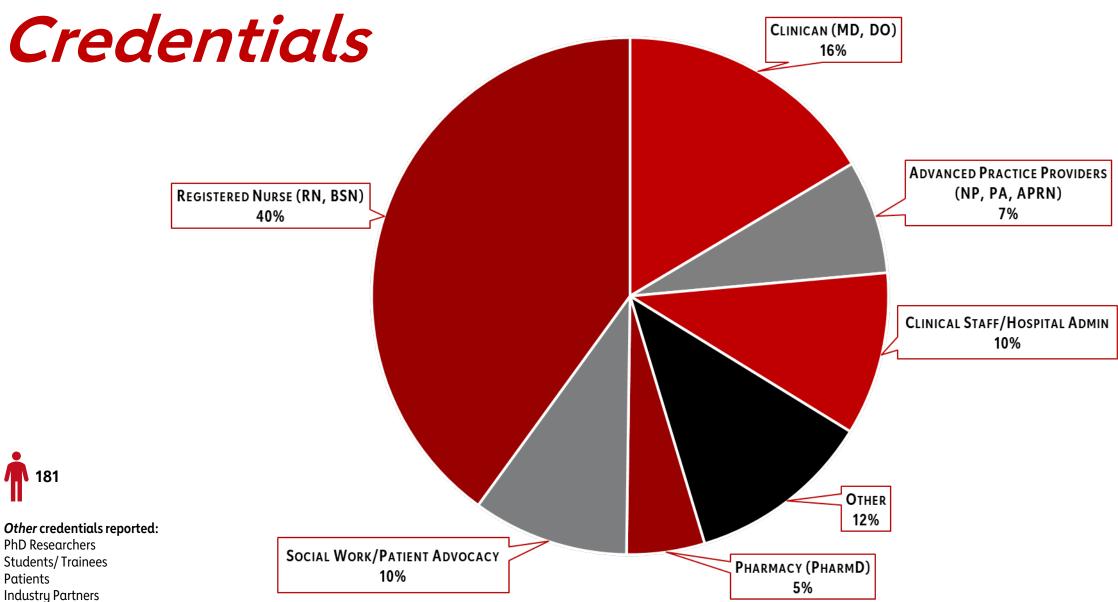


Other specialties reported:

Critical Care
Gastroenterology
General Practice
Internal Medicine
Nephrology



Forum Attendance Metrics:



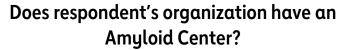


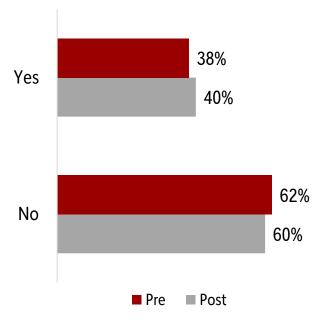
Forum Attendance Metrics:

Healthcare PATIENT ADVOCACY SPECIALTY CLINIC 5% Setting ACADEMIC MEDICAL **CENTER COMMUNITY HOSPITAL** 56% 30%

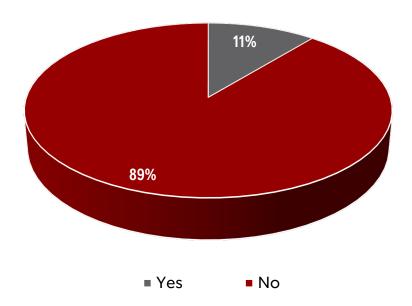


Institutional Characteristics





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





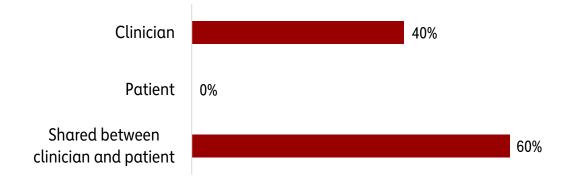


Disease Management

Shared Decision-Making and Patient Preparedness

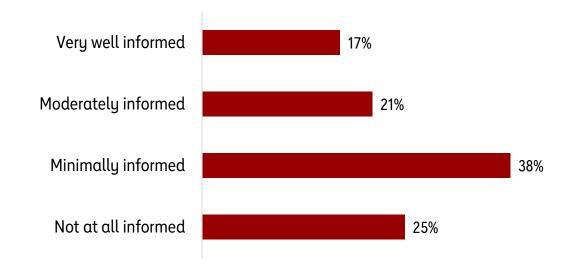
PRE

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?





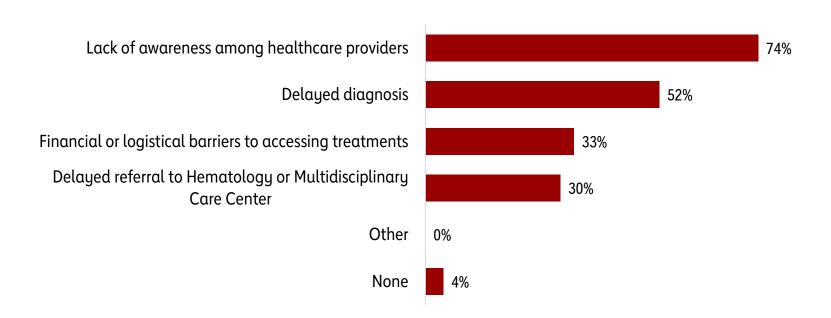
Bridging the Knowledge Gap

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!

PRE

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



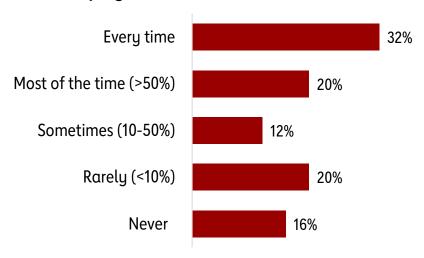




Evolving Referral Practices

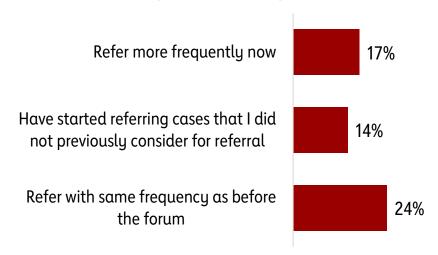
PRE

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?



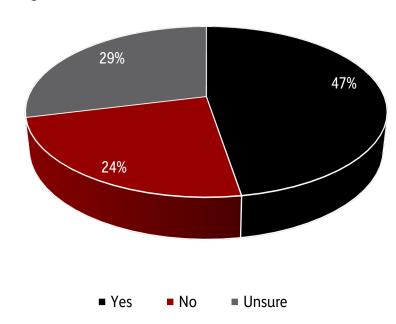
A third of respondents have started referring suspected or newly diagnosed patients more frequently or have started referring cases that did not previously consider for referral.



Institutional Protocols

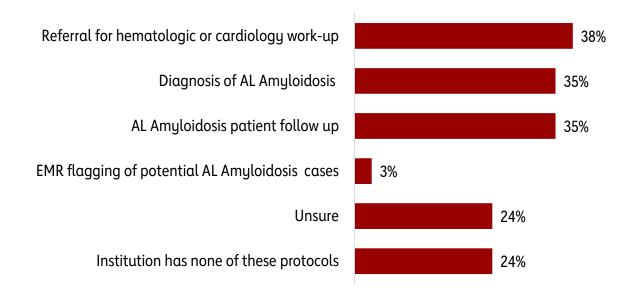
PRE

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



PRE

Respondent's institution has these protocols.



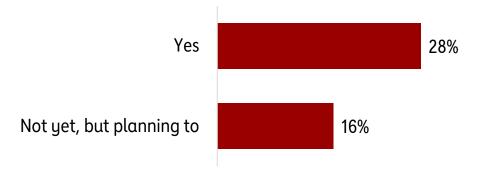


Turning Awareness Into Action: Institutional Protocols in Motion

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?

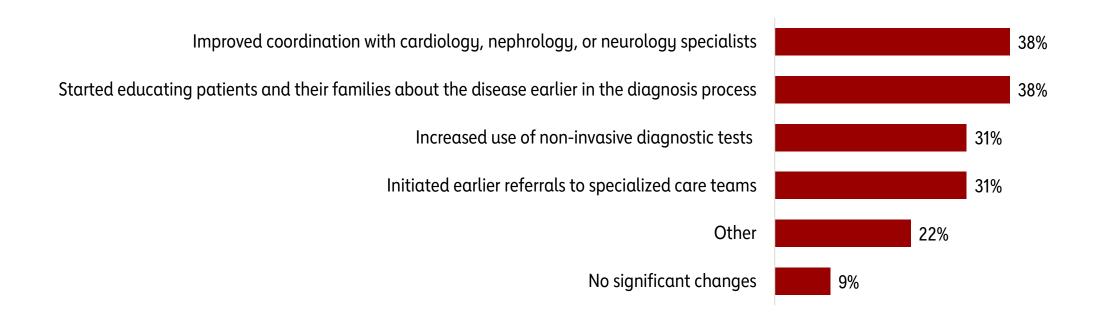




Turning Awareness Into Action: Institutional Protocols in Motion

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?

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

Other

73%

73%

73%

73%

73%

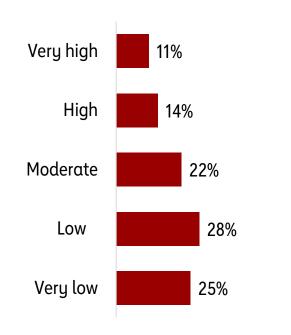


Disease Confidence & Education Impact

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.

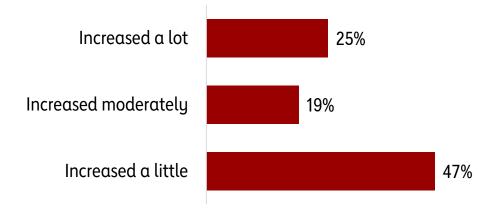
This underscores the need for targeted education and support.



Confidence Boost: What Providers Gained from the Forum

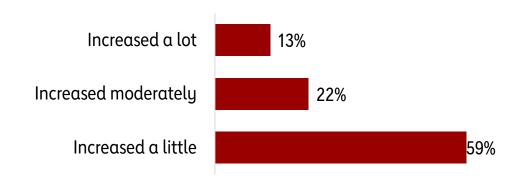
POST

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."

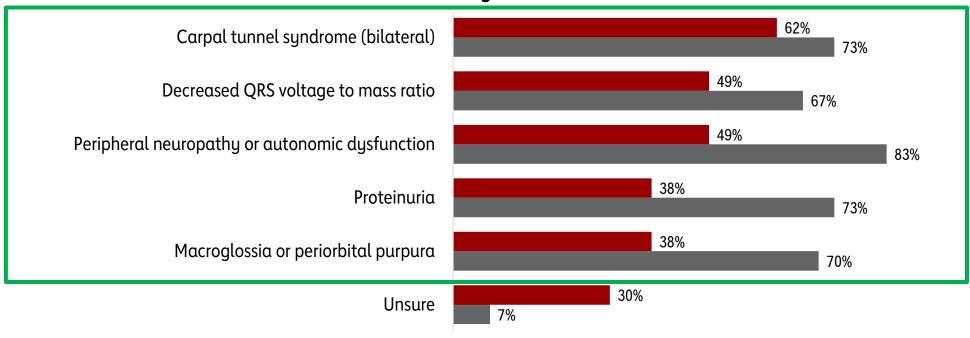


Fewer respondents reported their confidence in interpreting diagnostic tests increased "a lot" or "moderately" (35%) compared to increases in confidence in diagnosing (44%).



Pre vs Post: Respondents' Knowledge

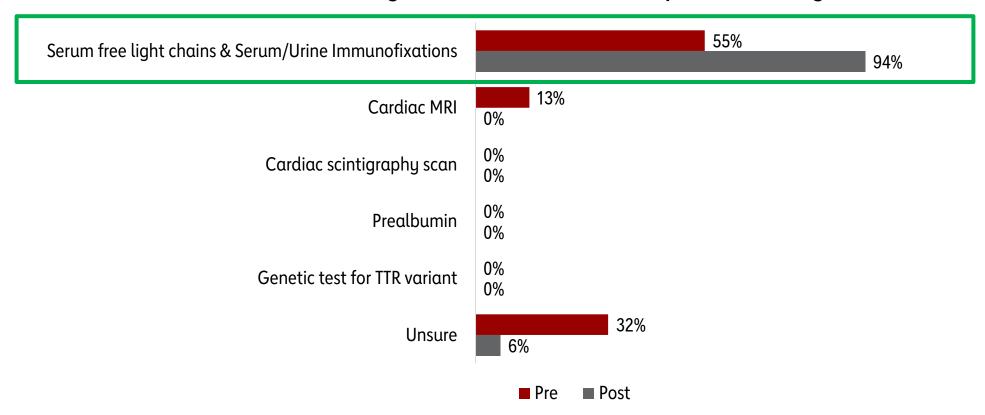
What symptoms or combination of clinical presentations most commonly trigger suspicion of AL Amyloidosis?





Pre vs Post: Respondents' Knowledge

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

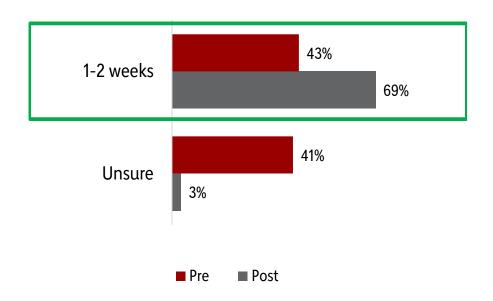




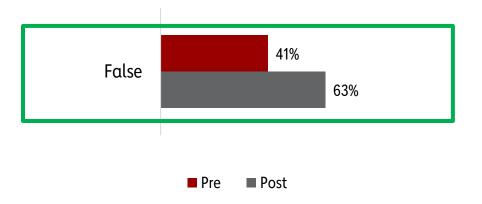


Pre vs Post: Respondents' Knowledge

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



AL Amyloidosis can be diagnosed without a biopsy.







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

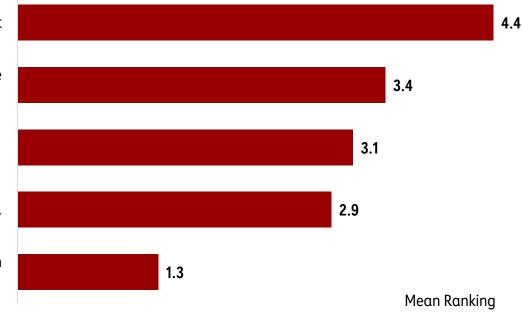
A. Developing and implementing standardized clinical protocols for diagnosis and treatment

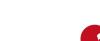
B. Regular multidisciplinary team meetings to review patient cases, share updates, and align care strategies

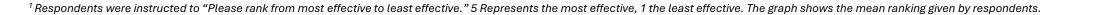
C. Incorporating new diagnostic tools and order sets into EMR systems

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

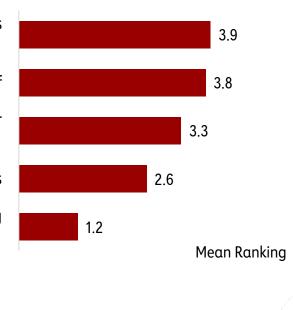
A. Access to updated clinical guidelines or protocols

B. Training or workshops for staff

C. Support from leadership or administration

D. Access to specialized diagnostic tools

E. Collaborations with patient advocacy groups and organizations







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

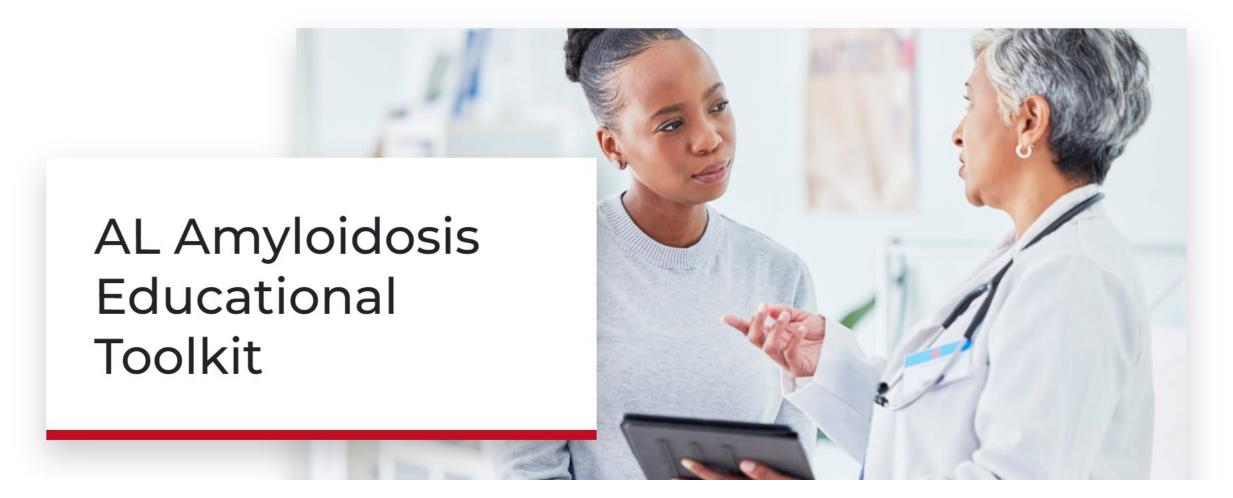


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Quick Reference Guide



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 amyloid 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, Stem cell transplantation.

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

Key Diagnostic Testing

Initial Screening Tests

Serum free light chains (kappa & lambda)

Serum electrophoresis with immunofixation

Urine electrophoresis with immunofixation

Troponin T & NT-proBNP

Echo (with strain imaging)/Cardiac MRI (with and without contrast)

Further Diagnostic Testing

Abdominal fat pad biopsy

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 Amuloidosis remains high, consider biopsy of the affected organ.

Different Diagnosis

Abnormal Monoclonal Testing Diagnosis Considerations

Monoclonal Gammopathy of undetermined significance

Multiple Mueloma, Smoldering Multiple Mueloma, or Light Chain Smoldering Multiple Mueloma

Waldenström Macroglobulinemia

POEMS Sundrome

Clinical Clues

Weakness, unexplained fatigue, macroglossia

Hematologic: Easy bruising, periorbital

purpura (raccoon eyes)

Dyspnea, hypotension, edema, arrhythmias, increased for 1-Ventricularwall thickness

Peripheral neuropathy, carpal tunnel syndrome, autonomic dusfunction

Renal

Proteinuria. nephrotic syndrome, kidney dysfunction

Gastrointestinal:

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



Ouick Reference Guide

Diagnosing Amuloidosis

Disease Suspicion See Clinical Clues Initial Screening Tests

- Serum free light chains (kappa & lambda)
- · Serum electrophoresis with immunofixation · Urine electrophoresis with immunofixation

Abnormal Monoclonal Protein

AL Pathway

Urgent Referral to Hematology Additional Testing:

- Abdominal fat pad biopsy
- · Bone marrow biopsy Tissue biopsy confirmation requires detection of amuloid
- deposits using Congo red staining, with amyloid typing determined by mass spectrometry
- Pathway Confirmation of AL Amyloidosis:
- Tissue biopsy (e.g., abdominal fat pad) Congo red-positive
- Amyloid typing confirms AL (via mass spectrometry) Clonal plasma cell disorder identified (bone marrow)
 - Initiate Hematology-directed

Scan or Click Here

to Learn More!

ATTR Pathway

Cardiac Scintigraphy Uptake- Grade 2/3 Yes ATTR Cardiac Genetic

Amuloidosis Unlikelu

ATTRwt

Yes **ATTRy**

Therapy Immediately

(i)

ack

Referral Guidance

- · Refer suspected AL Amyloidosis patients to an amyloidosis center when possible.
- If an amuloidosis center is unavailable, prompt consultation with hematologu and cardiology is essential.
- · A diagnosis of AL Amyloidosis is a medical emergency that demands timely evaluation and multidisciplinary collaboration to ensure the best possible outcomes.

Patient Advocacy and Support Resources







The AL Amyloidosis Toolkit is proudly supported by Alexion, AstraZeneca Rare Disease

Clinician Pocket Card



AL Amyloidosis Clinician Pocket Guide

Clinical Clues



General: Weakness, unexplained fatique, macroglossia



Neurologic:

Peripheral neuropathy, carpal tunnel syndrome, autonomic dusfunction



Hematologic: Easy bruising, periorbital purpura (raccoon eyes)



Cardiac:

Dyspnea, hypotension, edema, arrhythmias, increased L-Ventricular wall thickness



Gastrointestinal:

Significant unintentional weight loss, diarrhea/ constipation, malabsorption. unexplained GI bleeding. hepatomegalu



Renal:

Proteinuria, nephrotic sundrome, kidney dusfunction

Suspect Amyloidosis?

Act Swiftly with These Tests

Initial Screening Tests

Serum free light chains (kappa & lambda)

Serum electrophoresis with immunofixation

Random urine electrophoresis with immunofixation

Troponin T & NT-proBNP

Electrocardiogram

Front

Echo (with strain imaging)/Cardiac MRI (with and without contrast)

AL Amyloidosis

Clinician Pocket Guide



to Learn More!

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.

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:

MLEXION The AL Amyloidosis Toolkit is proudly supported by Alexion, AstraZeneca Rare Disease

Contact Info:

How this Toolkit Helps?!



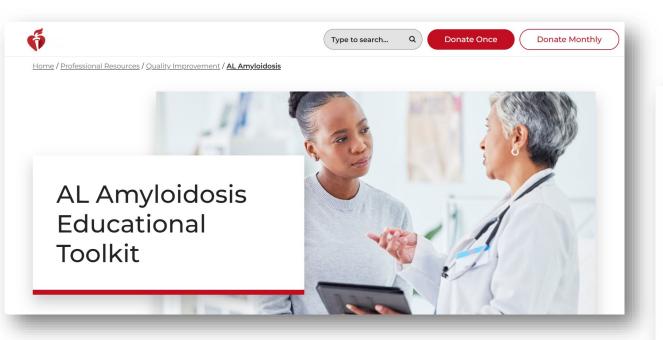
From Awareness to Action — Tools That Make a Difference.



CALL TO ACTION



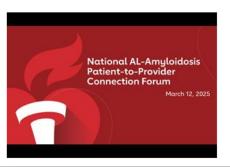
www.heart.org/AL-Amyloidosis



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)





Q&A





Thank you for joining us today!

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

