

***Program Schedule***  
**Mayo Clinic 11<sup>th</sup> Annual**  
**Heart Rhythm & ECG Course:**  
**A Case-based Approach (MST)**

**Wednesday, December 7, 2022** *(Optional – must pre-register; no additional charge)*

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- 5:00 p.m.            **Introduction to Basic ECG Interpretation**  
Dan Sorajja, M.D.
- 6:00 p.m.            **Adjourn**

**Thursday, December 8, 2022**

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- 6:15 a.m. MST        **Registration, Continental Breakfast, and Exhibits**
- 7:00 a.m.            **Livestream Attendee Logon**
- 7:15 a.m.            **Welcome Announcements and Pre-Test**  
Komandoor Srivathsan, M.D.

**ECG Reading Course**

- MODERATOR:**        Komandoor Srivathsan, M.D.
- 7:30 a.m.            **Bundle Branch Blocks - Recognition, Significance,  
and Prognosis: Case Examples**  
Stephen C. Hammill, M.D.
- 7:55 a.m.            **All SVT Just Need Adenosine - Why Differential  
Diagnosis Matters: Case Examples**  
Win-Kuang Shen, M.D.
- 8:20 a.m.            **Three Case Examples of VT vs Aberrancy;  
Where Following Criteria Helped**  
Dan Sorajja, M.D.
- 8:45 a.m.            **Monomorphic VT in Ischemic Heart Disease is  
Different from Normal Hearts: Case Examples**  
Arturo M. Valverde, M.D.
- 9:10 a.m.            **Panel Discussion**  
Drs. Hammill, Shen, Sorajja, and Valverde
- 9:30 a.m.            **Break and Exhibits (15 Min. - Additional Faculty Interaction/15 Min. Break)**

## Thursday, December 8, 2022 (continued)

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- 10:00 a.m.            **AV Node vs His-Purkinje Disease: Case Examples**  
Komandoor Srivathsan, M.D.
- 10:25 a.m.            **LVH vs HCM vs Cardiac Amyloidosis: Case Examples**  
Luis R. Scott, M.D.
- 10:50 a.m.            **All Atrial Flutters Are Not the Same: Case Examples**  
Win-Kuang Shen, M.D.
- 11:15 a.m.            **Break and Exhibits**
- 11:30 a.m.            **Metabolic Changes, Ion Channel Problems  
and Unusual Problems; Three Case Scenarios**  
Hicham Z. El Masry, M.D.
- 11:55 a.m.            **Stress ECG And Duke Treadmill Score  
Prognostication; Case Examples**  
Thomas G. Allison, Ph.D., M.P.H.
- 12:30 p.m.            **Artificial Intelligence and ECG Reading;  
Case Examples**  
Komandoor Srivathsan, M.D.
- 12:45 p.m.            **Panel Discussion and Post-Test**  
Drs. Allison, El Masry, Scott, Shen, and Srivathsan
- 1:00 p.m.             **Adjourn**

1:15 p.m.	<b>Livestream Workshop Login</b>
1:30 p.m.	<b>*Optional Additional ECG Workshop for Basic ECG Reading (lunch provided to onsite attendees)</b>  <b>Presenter:</b> Stephen C. Hammill, M.D.  <b>Panel:</b> Hicham Z. El Masry, M.D.; Win-Kuang Shen, M.D.; and Dan Sorajja, M.D., Narayan (Guru) G. Kowlgi, M.B.B.S.  <b>Code ECGs with Stephen C. Hammill, M.D.</b> <i>(useful for Cardiology Board examination)</i> [Live/Virtual Interactive Session]
3:30 p.m.	<b>Adjourn</b>

*\*Optional Workshop (Separate Registration Required - fee applies)*

## Friday, December 9, 2022

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6:15 a.m. **Continental Breakfast and Exhibits**

7:00 a.m. **Livestream Attendee Logon**

7:15 a.m. **Announcements and Pre-Test**

### Atrial Fibrillation

**MODERATOR:** John M. Miller, M.D.

7:30 a.m. **Is Sleep Apnea Really a Risk Factor?  
A Case Review**  
John M. Miller, M.D.

7:55 a.m. **Rate Control Options: Medications and AV Nodal  
Ablation - Hospital vs Outpatient Practice: Case Examples**  
Win-Kuang Shen, M.D.

8:20 a.m. **Guideline Directed Medications for Maintaining Sinus  
Rhythm: Choice is Dependent on Underlying Disease:  
Case Examples**  
John M. Miller, M.D.

8:45 a.m. **Why Early Ablation is Better than Delayed Procedure  
for Atrial Fibrillation: Case Examples**  
Arturo M. Valverde, M.D.

9:10 a.m. **Stroke in Atrial Fibrillation: CHADS VASC Score  
Do Not Have Equal Weightage: Case Examples**  
Hicham Z. El Masry, M.D.

9:35 a.m. **Panel Discussion**  
Drs. El Masry, Miller, Shen, and Valverde

10:00 a.m. **Break and Exhibits**  
*(15 Min. - Additional Faculty Interaction/15 Min. Break)*

10:30 a.m. **Pacemaker Detected Atrial Fibrillation: Do I Have to  
Worry Until the Episode Lasts 24 Hours or Greater?  
Case Examples**  
Dan Sorajja, M.D.

## Friday, December 9, 2022 *(continued)*

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10:55 a.m.	<b>Atrial Fibrillation - Debates</b> <b>Moderator:</b> Komandoor Srivathsan, M.D.  <b>Pro: Atrial Fibrillation Should be Ablated Early in its Course</b> Win-Kuang Shen, M.D.  <b>Con: Ablation Should Only be Performed for Refractory Cases</b> John M. Miller, M.D.
11:25 a.m.	<b>Post PCI Anticoagulation; Confusing Rivaroxaban Dosing: Case Examples</b> Eric H. Yang, M.D.
11:50 a.m.	<b>Post-Operative Atrial Fibrillation: Role of Amiodarone and Pre-Procedure Loading</b> Arturo M. Valverde, M.D.
12:15 p.m.	<b>Break and Exhibits</b>
12:30 p.m.	<b>Reversal of Bleeding Episodes with NOACs: Why Andexanet Alpha is not Approved by Most Hospitals</b> Dan Sorajja, M.D.
12:55 p.m.	<b>Panel Discussion and Post-Test</b> Drs. Miller, Shen, Sorajja, Srivathsan, Valverde, and Yang
1:30 p.m.	<b>Adjourn</b>
1:45 p.m.	<b>Livestream Workshop Login</b>
2:00 p.m.	<b>*Optional Workshop: Challenging ECGs</b> <i>(lunch provided to onsite attendees)</i>  <b>Presenter:</b> Komandoor Srivathsan, M.D.  <b>Panel:</b> Arturo M. Valverde, M.D.; Luis R. Scott, M.D.; Win-Kuang Shen, M.D.; and John M. Miller, M.D.  [Live/Virtual Interactive Session]
4:00 p.m.	<b>Adjourn</b>

*\*Optional Workshop (Separate Registration Required – fee applies)*

## Saturday, December 10, 2022

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6:00 a.m. **Continental Breakfast and Exhibits**

6:50 a.m. **Livestream Attendee Logon**

7:00 a.m. **Early Bird Special Session:  
Learning from the 12-lead ECG**  
Win-Kuang Shen, M.D.

### CHF Session

**MODERATOR:** Komandoor Srivathsan, M.D.

7:15 a.m. **Announcements and Pre-Test**

7:30 a.m. **POTS and Inappropriate Sinus Tachycardia  
Cases: How Did I Manage?**  
Win-Kuang Shen, M.D.

7:55 a.m. **Anticoagulation Management in Patients  
Undergoing Procedures with Warfarin and NOACs**  
Narayan (Guru) G. Kowlgi, M.B.B.S.

8:20 a.m. **Acute Illness in Hospital and Related Arrhythmia Cases**  
Hicham Z. El Masry, M.D.

8:45 a.m. **Event Recorder, Holter or Implantable Loop Recorder:  
Case Examples of Which Should One Choose?**  
Dan Sorajja, M.D.

9:10 a.m. **Panel Discussion**  
Drs. El Masry, Shen, and Sorajja

9:30 a.m. **Break and Exhibits (15 Min. - Additional Faculty Interaction/15 Min. Break)**

10:00 a.m. **Sudden Death in HCM; and is Screening with MRI  
Critical in Evaluation?**  
Thomas M. Munger, M.D.

10:25 a.m. **Heart Failure; Biventricular Pacemaker or Conduction  
System Pacemaker; What does the Data Show?**  
Fred Kusumoto, M.D.

10:50 a.m. **Remote Monitoring Helped These Patients:  
Review of Three Cases**  
Paul S. Bibby, APRN, AGACNP-BC, M.S.N.

## **Saturday, December 10, 2022** *(continued)*

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- 11:15 a.m.            **SVT and Atrial Flutter in CHF Patients: Case Reviews**  
Arturo M. Valverde, M.D.
- 11:40 a.m.            **Cardiac Contractility Modulation: Is There a Role?**  
Hicham Z. El Masry, M.D.
- 12:00 p.m.           **Panel Discussion and Post-Test**  
Drs. Kusumoto, El Masry, Munger, Valverde, and Mr. Bibby
- 12:15 p.m.            **Adjourn**

## **Sunday, December 11, 2022**

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- 6:00 a.m.            **Continental Breakfast and Exhibits**
- 6:35 a.m.            **Livestream Attendee Logon**
- 6:45 a.m.            **Early Bird Special Session:  
Review of Interesting ECGs**  
Komandoor Srivathsan, M.D.
- 7:15 a.m.            **Announcements and Pre-Test**

<b>Ventricular Arrhythmias</b>
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**MODERATOR:**        John M. Miller, M.D.

- 7:30 a.m.            **Implantable Defibrillator for Primary Prevention of  
Sudden Death: When Not to Implant Them after  
Careful Discussion**  
Fred Kusumoto, M.D.
- 7:55 a.m.            **Sudden Death in a Young Family Member:  
What Investigations Among Relatives?**  
Justin Z. Lee, M.B.B.S.
- 8:20 a.m.            **What if Initial Management Fails in VT Therapy?  
What Else can be Done before Ablation?**  
Thomas M. Munger, M.D.
- 8:50 a.m.            **Post Pacemaker Implantation Follow-up**  
Dan Sorajja, M.D.
- 9:15 a.m.            **Panel Discussion**  
Drs. Kusumoto, Lee, Munger, and Sorajja
- 9:30 a.m.            **Break and Exhibits**  
*(15 Min. - Additional Faculty Interaction/15 Min. Break)*

## **Sunday, December 11, 2022** *(continued)*

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- 10:00 a.m.            **Who is a Watchman Candidate and Why?**  
Reza Arsanjani, M.D.
- 10:25 a.m.            **Wearable Defibrillator: Was the Negative Study Flawed?**  
Dan Sorajja, M.D.
- 10:50 a.m.            **Pacemaker/ICD Trouble Shooting in the ED:  
Three Case Scenarios**  
Linda J. Schwartz, R.N.
- 11:15 a.m.            **Panel Discussion and Post-Test**  
Dr. Arsanjani, Dr. Sorajja and Ms. Schwartz
- 11:30 a.m.            **Closing Remarks**
- 11:35 a.m.            **Adjourn**