

***Program Schedule***  
**Mayo Clinic 10<sup>th</sup> Annual**  
**Heart Rhythm & ECG Course:**  
**A Case-based Approach**  
***Mountain Standard Time***

**Thursday, December 2, 2021**

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6:15 a.m. MST      **Registration & Continental Breakfast**

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

7:15 a.m.            **Welcome Announcements and Pre-Test**  
Komandoor Srivathsan, M.D.

<b>ECG Reading Course</b>
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**MODERATOR:**      Komandoor Srivathsan, M.D.

7:30 a.m.            **Bundle Branch Blocks**  
Stephen Hammill, M.D.

7:55 a.m.            **SVT Basics and Differential Diagnosis Simplified**  
Win-Kuang Shen, M.D.

8:20 a.m.            **Aberrancy or Ventricular Tachycardia:**  
**One or Two Criteria to Remember**  
Dan Sorajja, M.D.

8:45 a.m.            **Ventricular Tachycardia:**  
**When Do I Worry and Refer for ICD?**  
Arturo M. Valverde, M.D.

9:10 a.m.            **Panel Discussion**  
Drs. Shen, Sorajja, Srivathsan and Valverde

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

10:00 a.m.           **AV Node vs His-Purkinje Disease**  
Komandoor Srivathsan, M.D.

10:25 a.m.           **Chamber Abnormalities and Diagnostic Changes**  
Dr. Luis Scott, M.D.

10:50 a.m.           **A Flutter, Pre-excited Atrial Fibrillation**  
Win-Kuang Shen, M.D.

11:15 a.m.           **Break**

**Thursday, December 2, 2021 (continued)**

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- 11:30 a.m.            **Metabolic Changes, Ion Channel Problems  
and Unusual Problems**  
Hicham Z. El Masry, M.D.
- 11:55 a.m.            **Simple Things to Consider in Stress ECG**  
Justin Z. Lee, M.B.B.S.
- 12:30 p.m.            **Putting It All Together:  
Different ECG Patterns in Practice**  
Komandoor Srivathsan, M.D.
- 12:45 p.m.            **Panel Discussion and Post-Test**  
Drs. El Masry, Scott, Shen, and Srivathsan
- 1:00 p.m.             **Adjourn**
- 1:15 p.m.             **Livestream Workshop Login**
- 1:30 – 3:30 p.m.     **Optional Additional ECG Workshop for Advanced\*  
ECG Reading (lunch provided to onsite attendees)**  
**Presenter:** Komandoor Srivathsan, M.D.  
**Panel:** Hicham Z. El Masry, M.D.;  
Win-Kuang Shen, M.D.; and Dan Sorajja, M.D.
- Code ECGs** with Stephen C. Hammill, M.D.  
*(useful for Cardiology Board examination)*  
[Live/Virtual Interactive Session]

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

## Friday, December 3, 2021

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- 6:15 a.m.            **Continental Breakfast**
- 7:00 a.m.            **Livestream Attendee Logon**
- 7:15 a.m.            **Announcements and Pre-Test**

### Atrial Fibrillation

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

- 7:30 a.m.            **Atrial Fibrillation: Sleep Apnea and Risk Factor Changes – A Case Review**  
John Miller, M.D.
- 7:55 a.m.            **Rate Control Options: Medications and AV Nodal Ablation – Take Home Messages for My Practice**  
Win-Kuang Shen, M.D.
- 8:20 a.m.            **Guideline Directed Medications for Maintaining Sinus Rhythm: Is There a Simple Rule That I Can Use**  
John Miller, M.D.
- 8:45 a.m.            **When Do I Refer Patients for Ablation?**  
Arturo M. Valverde, M.D.
- 9:10 a.m.            **Stroke in Atrial Fibrillation: What is Gender Neutral CHADS VASC Score**  
Hicham Z. El Masry, M.D.
- 9:35 a.m.            **Panel Discussion**  
Drs. El Masry, Miller, Shen, and Valverde
- 10:00 a.m.           **Break (15 Minutes - Additional Faculty Interaction/15 minutes - Break)**
- 10:30 a.m.           **Pacemaker Detected Atrial Fibrillation: Do I Do Anything About It?**  
Dan Sorajja, M.D.
- 10:55 a.m.           **Atrial Fibrillation – Debates**  
**Moderator:** Komandoor Srivathsan, M.D.
- Pro: Atrial Fibrillation Should be Ablated at the Very Onset and First Episode**  
Win Shen, M.D.
- Con: Ablation Should Only be Performed for Refractory Cases**  
John Miller, M.D.

**Friday, December 3, 2021** *(continued)*

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- 11:25 a.m.            **Post PCI Anticoagulation**  
Win-Kuang Shen, M.D.
- 11:50 a.m.            **Post-Operative Atrial Fibrillation:  
Cardinal Things to Know**  
Arturo Valverde, M.D.
- 12:15 p.m.            **Break**
- 12:30 p.m.            **PACs and No Sustained Atrial Tachycardia:  
Do They Lead to Atrial Fibrillation?**  
Win-Kuang Shen, M.D.
- 12:55 p.m.            **Reversal of Bleeding Episodes with NOACs:  
What is Available and How Expensive is it?**  
Dan Sorajja, M.D.
- 1:20 p.m.             **Panel Discussion and Post-Test**  
Drs. Miller, Shen, Sorajja, and Srivathsan
- 1:30 p.m.             **Adjourn**
- 1:45 p.m.             **Livestream Workshop Login**
- 2:00 – 4:00 p.m.     **Optional Workshop: Challenging ECGs\***  
*(lunch provided to onsite attendees)*  
**Presenter:** Komandoor Srivathsan, M.D.  
**Panel:** Arturo M. Valverde, M.D.; Luis R. Scott, M.D.;  
Win-Kuang Shen, M.D.; and John Miller, M.D.  
[Live/Virtual Interactive Session]

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

## **Saturday, December 4, 2021**

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- 6:00 a.m.            **Continental Breakfast**
- 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**

### **Ventricular Arrhythmias**

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

- 7:30 a.m.            **Implantable Defibrillator for Primary Prevention  
of Sudden Death: What Do the Guidelines Say?**  
Fred Kusumoto, M.D.
- 7:55 a.m.            **Sudden Death in the Young: Evaluation**  
Justin Z. Lee, M.B.B.S
- 8:20 a.m.            **Hospital Management of Wide QRS Tachycardia:  
What Should Never be Done?**  
Thomas M. Munger, M.D.
- 8:50 a.m.            **PVCs and Cardiomyopathy: Chicken or the Egg**  
Win-Kuang Shen, M.D.
- 9:15 a.m.            **Panel Discussion**  
Drs. Kusumoto, Munger, Scott, and Shen
- 9:30 a.m.            **Break (15 Minutes - Additional Faculty Interaction/15 minutes - Break)**
- 10:00 a.m.           **Channelopathies: What Should a Generalist Know?**  
Komandoor Srivathsan, M.D.
- 10:25 a.m.           **Wearable Defibrillator: Use or Abuse**  
Dan Sorajja, M.D.
- 10:50 a.m.           **Pacemaker and MRI**  
Win-Kuang Shen, M.D.

**Saturday, December 4, 2021 (continued)**

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11:20 a.m.            **Pacemaker/ICD Trouble Shooting in the ED:  
Three Case Scenarios**  
Linda J. Schwartz, R.N.

11:45 a.m.            **Break**

**Practical Clinical Issues -- Answered in 10 Minutes**

12:00 p.m.            **Post Intracranial Bleed: When to Start Anticoagulation?**  
Fred Kusumoto, M.D.

12:10 p.m.            **Anticoagulation after GI Bleed**  
Dan Sorajja, M.D.

12:20 p.m.            **Post Ablation ER Visits**  
Thomas M. Munger, M.D.

12:30 p.m.            **Athletes and Worrisome Arrhythmia: What Should I  
Test to Clear a Young Person for Athletic Activity?**  
Luis R. Scott, M.D.

1:00 p.m.            **Panel Discussion and Post-Test**  
Drs. Kusumoto, Munger, Shen, Sorajja, Srivathsan and Linda Schwartz

1:15 p.m.            **Adjourn**

## **Sunday, December 5, 2021**

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- 6:00 a.m.                    **Continental Breakfast**
- 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.

<b>CHF Session</b>
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**MODERATOR:**            Komandoor Srivathsan, M.D.

- 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**  
Dan Sorajja, M.D.
- 8:20 a.m.                    **Acute Illness in Hospital and Related Arrhythmia**  
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 (15 Minutes - Additional Faculty Interaction/15 minutes - Break)**
- 10:00 a.m.                    **Sudden Death in HCM and Screening**  
Thomas M. Munger, M.D.
- 10:25 a.m.                    **Heart Failure and Biventricular Devices:  
What is the Data?**  
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.

**Sunday, December 5, 2021** *(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.            **Panel Discussion**  
                                 Drs. Kusumoto, Munger, Valverde and Mr. Bibby
- 12:00 p.m.            **Adjourn**