



Dear Colleagues,

We are pleased to send you the first issue of the *ISE Newsletter*. This newsletter will be sent every two months to the members of the International Society of Electrocardiology (ISE) and will include news from the ISE and its Young Community, society activities, upcoming events, and recent literature on electrocardiography.

We hope you enjoy this issue and welcome your thoughts. Also, we would appreciate contributions for the upcoming issues.

#### ISE Communication Team

*Dr Göksel Çinier* (Coordinator)  
*Dr Hector Isaac Alejandro Ortiz Lopez* (Social Media Editor)  
*Dr Levent Pay* (Social Media Editorial Team)  
*Dr Mark Potse* (ISE Council member)  
*Prof Gary Tse* (ISE Secretary)  
*Prof Bülent Görenek* (ISE President)

## News from ISE

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- **New website, old location**

The ISE website is back where it used to be, at <https://electrocardiology.org/>. It has a new look and a new web manager: Mark Potse, who is also a member of the International Council of the ISE. We would like to thank Prof Rob MacLeod, until recently the ISE's Secretary, for having managed the website during so many years. We also thank Rob's institution, the Scientific Computing and Imaging Institute in Salt Lake City, for hosting our website at no charge.

We now have the Twitter timelines of the ISE Young Community and the Journal of Electrocardiology embedded in the website. It also features three highlighted papers from the recently appeared volume 68 of the Journal, among which the first ever study on ECG signs of athlete's heart in an African population.

Please note also the "opportunities" page on the website. Here you can post jobs and collaboration requests related to electrocardiology. Material for the website can be sent by e-mail to Mark Potse ([mark@potse.nl](mailto:mark@potse.nl)).

- **New ISE Webinar – Save the Date!**

A new webinar is on the way! On 19<sup>th</sup> October 2021, we will discuss noninvasive risk stratification techniques for cardiac mortality. The webinar will be chaired by Prof Takanori Ikeda from Japan and the presenters will be Prof Richard Verrier from the USA, Prof Axel Bauer from Austria and Prof Takahashi from Japan. Save the date in your calendar!



**Noninvasive Risk Stratification Techniques For Cardiac Mortality**

**19<sup>th</sup> October 2021**

8 am EST 2 pm CET 8 pm China  
1 pm UK 3 pm Turkey 9 pm Japan

**Current status of T-wave alternans in risk stratification**  
Prof. Richard Verrier (Harvard Medical School, USA)

**Practical use of heart rate turbulence in risk assessment**  
Prof. Axel Bauer (Innsbruck Medical University, Austria)

**Recent advances of baroreflex sensitivity in clinical practice**  
Prof. Naohiko Takahashi (Oita University, Japan)

**Chair: Prof. Takanori Ikeda (Toho University, Japan)**

[www.electrocardiology.org](http://www.electrocardiology.org)

- **Follow ISE Facebook Page**

In order to increase our visibility on social media, the ISE launched a new Facebook page where news, ECG challenges and upcoming events will be shared. The editor for the page will be Hector Ortiz from Guatemala.

Please go to the following link to visit the page and follow it!

<https://www.facebook.com/ISEElectrocardiology>

- **A new Era in Membership**

A significant change has taken a place in the process of new membership. New members only need to fill an online document and no fee is required. With this new way, 127 new members joined our society in a very short time period.

You can easily go to membership with the following link:

<https://docs.google.com/forms/d/1ItVifgKOK8Fd60vlnKuuR7l46mfjGse3SjCmgtgObRY/>

## News from ISE Young Community

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- **A new initiative from the ISE Young Community – Dr Göksel Çinier (Turkey)**

The International Society of Electrocardiology Young Community (ISE-YC) was established in 2019. It now has more than 70 members. Over the past three years, with the support of senior members and ISE Council members, the ISE-YC has been active in conducting research projects and on social media platforms for spreading news both from the community and ISE itself. With the emergence of the COVID-19 pandemic, ISE webinars have allowed young colleagues to learn from the society at large and to communicate with

one another. To provide a platform for ISE-YC members for further contributing to the ISE, we organize a two-day online Scientific Meeting, which is planned to be held in early 2022.

Stay tuned for further news!

## Recent Publications

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1. **Title:** Electrocardiographic Findings in True Acute Left Main Coronary Total Occlusion A Subanalysis from ATOLMA Registry

**Summary by:** Dr Levent Pay (Turkey)

**Full text link:** <https://www.sciencedirect.com/science/article/abs/pii/S002207362100159X>

### Summary

Gutiérrez-Barrios et al. compared the electrocardiographic features of true acute total occlusion of the left main coronary artery (ATOLMA) with acute subtotal occlusion of the left main coronary artery (ASOLMA) and anterior ST-elevation myocardial infarction with total occlusion of the proximal left descending artery (LADp-STEMI). Participants from the previously published ATOLMA multicenter registry were included and compared with ECG features of 15 patients with ASOLMA and 15 patients with LADp-STEMI. Results revealed the indicators of ATOLMA were ST-segment elevation in aVL, absence of ST-segment elevation in V1, left axis deviation, intraventricular conductance disturbances, prolongation of QTc interval and ST segment elevation in aVR. In addition, fragmented QRS interval indicated in hospital mortality. This study has the largest reported cohort to define the ECG pattern that includes patients with ATOLMA.

2. **Title:** The prognostic significance of grade of ischemia in the ECG in patients with ST-elevation myocardial infarction: A substudy of the randomized trial of primary PCI with or without routine manual thrombectomy (TOTAL trial)

**Summary by:** Dr Elif Hande Özcan Çetin (Turkey)

**Full text link:** <https://www.sciencedirect.com/science/article/abs/pii/S0022073621001588>

### Summary

Leivo et al. investigated the prognostic impact of the grade of ischemia in the pre-procedure ECG and its correlation to the angiographic data. This prospective, pre-planned substudy of the TOTAL trial included 7,211 patients. The primary outcome was a composite of cardiovascular death, recurrent myocardial infarction (MI), cardiogenic shock, or New York Heart Association (NYHA) class IV heart failure within one year. As the largest prospective study dealing with this ECG classification, this study showed that Grade III ischemia (G3I) (G2I + terminal QRS distortion) was associated with a worse clinical outcome compared to Grade II ischemia (G2I) with an increased rate of the composite of cardiovascular death, recurrent MI, cardiogenic shock, or NYHA class IV heart failure within one year.

### 3. **Title:** Electrocardiography Guided Left Bundle Branch Pacing

**Summary by:** Dr Çağlar Özmen (Turkey)

**Full text link:** <https://www.sciencedirect.com/science/article/abs/pii/S0022073621001345>

#### **Summary**

Ponnusamy et al. reviewed the role of ECG in guiding the left bundle branch pacing procedure and capture of the conduction system. In order to achieve the target-site, the pacing lead and the sheath should be placed 1–1.5 cm below the HB along an imaginary line connecting the distal His signals to right ventricular (RV) apex. As the left bundle is directly captured, pre-excitation of LV causes an RBB-delay pattern in the ECG. This review concludes that electrocardiography plays an important role in identifying the target-site for lead deployment, monitoring the lead-movement and confirming the LBB-capture. Physiology-based criteria combining intracardiac-electrograms with ECG increase the procedural success, ensure electrical and mechanical synchrony and avoid chronic right ventricular pacing related complications.