Criteria for surveys: from the European Association of Cardiovascular Imaging
Scientific Initiatives Committee

Kristina H. Haugaa 1,2*, Nina Ajmone Marsan3, Matteo Cameli4, Antonello D’Andrea5, Marc R. Dweck6, Ricardo Fontes Carvalho7, Espen Holte8,9, Robert Manka10, Blazej Michalski11, Tomaz Podlesnikar12,13, Bogdan A. Popescu14, Jeanette Schulz-Menger15,16,17, Marta Sitges18,19,20, Ivan Stankovic21, Gerald Maurer22, and Thor Edvardsen1,2

1Department of Cardiology, Oslo University Hospital, Postboks 4950 Nydalen, 0424 Oslo, Norway; 2Institute for Clinical Medicine, University of Oslo, Postboks 1171, Blindern, 0318 Oslo, Norway; 3Department of Cardiology, Leiden University Medical Center, Albinusdreef 2, 2300 RC Leiden, The Netherlands; 4Department of Cardiovascular Diseases, University of Sena, Policlínica Le Scotte, Viale Bracci 16, 53100 Sena, Italy; 5Department of Cardiology, Umberto I Hospital, Vila San Francesco 84014 Nocera Inferiore (Salerno), Luigi Vanvitelli University, Italy; 6BHF Centre for Cardiovascular Science, University of Edinburgh, Chancellors Building, Little France Crescent, Edinburgh EH16 4SB, UK; 7Cardiovascular Research & Development Unit, Department of Physiology and Cardiothoracic Surgery, Faculty of Medicine, University of Porto, Al. Prof. Hernani Monteiro, 4200 – 319 Porto, Portugal; 8Clinic of Cardiology, St. Olavs Hospital, Postboks 3250 Torgarden, 7006 Trondheim, Norway; 9Department of Circulation and Medical Imaging, Norwegian University of Science and Technology NTNU, Trondheim, Postboks 8905, 7461 Trondheim, Norway; 10Department of Cardiology, University Heart Center, University Hospital Zurich, Rämistrasse 100, 8091 Zurich, Switzerland; 11Department of Cardiology, Medical University of Lodz, Kaziernieckiego 1/5, 91-347 Lodz, Poland; 12Department of Cardiac Surgery, University Medical Centre Maribor, Ljubljanska ulica 5, 2000 Maribor, Slovenia; 13Department of Cardiology, University Medical Centre Ljubljana, Zalaska cesta 7, 1000 Ljubljana, Slovenia; 14Department of Cardiology, University of Medicine and Pharmacy ‘Carol Davila’, Euroecolab, Institute of Cardiovascular Diseases Prof. Dr. C. C. Iliescu’ Sos. Funerii 258, sector 2, 022328 Bucharest, Romania; 15Charité Medical Faculty of the Humboldt University Berlin, ECRK, 13125 Berlin, Germany; 16DZHK, Partner site 13125 Berlin, Germany; 17Helios Clinics Berlin-Buch, Cardiology, 13125 Berlin, Germany; 18Cardiovascular Institute, Hospital Clinic, Universitat de Barcelona, Villarreal 170, 08036 Barcelona, Spain; 19Institut d’Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS); Villarroel 170, 08036 Barcelona, Spain; 20CIBERCV, Instituto de Salud Carlos III; Sinesio Delgado, 4, 28029 Madrid, Spain; 21Department of Cardiology, Clinical Hospital Centre Zemun, University of Belgrade, Faculty of Medicine, Vukova 9, 11080 Belgrade, Serbia; and 22Division of Cardiology, Medical University of Vienna, Währinger Gürtel 18-20, 1090 Wien, Austria

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The European Association of Cardiovascular Imaging (EACVI) is committed to maintaining the highest standards of professional excellence in all aspects of cardiovascular imaging. The mission of the EACVI is to promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular imaging with a particular focus on education, training, scientific initiatives, and research. The EACVI established the Scientific Initiatives Committee (SIC) in December 2018. This committee has responsibility for surveys among imagers, patients’ surveys and surveys including data from clinical practice. The current document describes the aims of the EACVI SIC and the creation of the international EACVI survey network. This document summarizes the EACVI’s standards for the survey questions and standards for writing the papers with the results of the surveys. These are in accordance with previous recommendations and were approved by the EACVI SIC and the EACVI Board in 2019.

Keywords

survey • EACVI network • patient survey

Introduction

The European Association of Cardiovascular Imaging (EACVI) is committed to maintaining the highest standards of professional excellence in all aspects of cardiovascular imaging. The mission of the EACVI is to promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular imaging with a particular focus on education, training, scientific initiatives, and research. The EACVI established the Scientific Initiatives Committee (SIC) in December 2018. This committee has responsibility for surveys among imagers, patients’ surveys and surveys including data from clinical practice.

* Corresponding author. Tel: +47 (23) 07 00 00; Fax: +47 23071335. E-mail: kristina.haugaa@medisin.uio.no
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The current document describes the aims of the EACVI SIC and the creation of the international EACVI survey network. This document summarizes the EACVI’s standards for the survey questions and standards for writing the papers with the results of the surveys (Table 1). These are in accordance with previous recommendations1,2 and were approved by the EACVI SIC and the EACVI Board in 2019.

**Aims**

The overall aims of the EACVI SIC are to:

- Connect national societies with the EACVI and to establish and develop good collaboration between the EACVI network centres with the help of the national societies.
- Establish and develop good collaboration with other ESC Associations and Working Groups, and with other international sister organizations and societies.
- Explore strategies, diagnostic methods, and management of patients across all member countries and imaging centres within EACVI.
- Unify imaging procedures, image interpretation, and patient management across member countries.
- Enhance EACVI visibility.

The committee will explore different diagnostic imaging strategies and approaches to patient management used across all member countries with the help of online surveys prompted by email invitation.

The documents produced by the SIC aim to summarize consensus and clinical practice in the field of cardiovascular imaging and to identify where practice may differ between centres across Europe and across countries outside Europe. The documents will highlight differences and similarities in clinical imaging practice among centres to optimize future guidance and recommendations to practicing physicians.

The EACVI surveys will focus on multimodality imaging in the majority of cases, but single modality surveys will also be performed. Examples of different surveys and documents are:

1. Surveys among imagers;
2. Surveys exploring translation of guidelines into clinical practice;
3. Snapshot surveys; and
4. Patient surveys.

The reports will be published in *European Heart Journal (EHJ)* and *Cardiovascular Imaging*.

**Network of centres**

To establish the survey network, all committee members have contacted labs from their country with invitations to participate in the network. Centres who agreed to participate were forwarded to the EACVI and registered as network members. Furthermore, the EACVI informed all national societies about the possibility of participating in the network and registered those who would volunteer. Online registration to join the network is available at [www.escardio.org/eacvi/surveys](http://www.escardio.org/eacvi/surveys). All registered networks centres will receive invitations to participate in the online surveys.

**Outline of surveys**

Surveys will start with a short introduction explaining the existing gaps in knowledge and the aim of the survey. This introduction will be included in the invitation email to each participating centre with the aim of raising interest in the survey.

The committee will always keep in mind a fundamental objective when preparing the survey questions: Which questions are of greatest interest to the imaging community?

The surveys itself will consist of 17–20 multiple choice questions comprising both single and multiple answer formats.

1. **Surveys among imagers.** These surveys will include 17–20 questions about a specific topic and will be answered by physicians at all levels of training, e.g. how do you image patients pre-, peri-, and post-intervention? The questions should be a mix of general questions of facts and personal opinions.
2. **Surveys exploring translation of guidelines into clinical practice.** Questions will be answered by imagers and focus upon a specific...
Patient surveys

(3) Snapshot surveys. These surveys will reflect current clinical practice at participating centres. Imagers at the centres will be asked to include patients in the survey during a defined time interval, e.g. 1 month. These surveys may focus on a specific procedure, e.g. all patients undergoing stress echo during 1 month. This type of surveys will require ethical approval in most countries and will, therefore, require longer planning. Alternatively, anonymized data may be collected and administered. Regulations around data sharing for each participating country will be respected and will be the responsibility of the national coordinator (most often the SIC member). The two centres with highest recruitment will be offered one co-authorship each on the paper.

(4) Patient surveys. These surveys will ask patients with certain conditions 15–20 multiple choice questions. These surveys will require that responding centres contact patients during clinical practice. The surveys will be anonymous (electronically or on paper). Legislation for each participating country will be respected and will be the responsibility of the national coordinator (most often the SIC member). The questions for the survey should be phrased in easily understandable language and drafted in English, although ultimately the survey will be translated into the local language of each participating country. This will again be the responsibility of the national coordinator, most often the SIC member. The two centres with highest recruitment will be offered one co-authorship each on the paper.

Outline of papers

Each paper will start with a short free text abstract explaining the aim of the survey. The abstract will be followed by introduction, methods, results, discussion, and conclusions.

The papers will pay attention to EACVI recommendations and ESC guidelines and be in concordance with these. The papers will aim to interest a wide clinical audience and to enhance the visibility of the EACVI and the EHJ Cardiovascular Imaging.

Appointment of members and chair to the Scientific Initiatives Committee

The committee members and the chair of the committee are appointed by the EACVI President. The term as a committee member is normally 2 years and this can be prolonged for a second 2-year period. The chair of the committee should ideally have been acting as a committee member for at least one term before being appointed as chair.

SIC members tasks description

All committee members should be coherent with the EACVI strategic plan and priorities and the committee’s responsibilities and workload. The committee members shall work in close collaboration with the committee chair, the EACVI president and EACVI staff to achieve the committee’s goals and annual objectives. Committee members are expected to enhance the EACVI’s visibility in their countries and to involve their networks whenever possible.

Administrative management

All SIC members and EACVI Board members are invited to propose subjects for upcoming surveys. The topics will be discussed in the committee. Topics approved by the President and by the Editor of the EHJ CVI are circulated to all SIC members.

The writing process is described in Table 2.

<table>
<thead>
<tr>
<th>Table 2</th>
<th>Tasks and estimated response time for authors in the SIC and EACVI staff</th>
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</thead>
<tbody>
<tr>
<td>Task</td>
<td>Estimated response time</td>
</tr>
<tr>
<td>1</td>
<td>The first author of the survey drafts the questionnaire and circulates it among SIC co-authors, EACVI staff, and committee chair.</td>
</tr>
<tr>
<td>2</td>
<td>The first author circulates the commented questionnaire to the rest of the SIC committee for final comments.</td>
</tr>
<tr>
<td>3</td>
<td>The EACVI staff publishes the survey online as a test for SIC members.</td>
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<tr>
<td>4</td>
<td>When approved and tested, the EACVI staff publishes the survey online and invites all network centres for participation.</td>
</tr>
<tr>
<td>5</td>
<td>The EACVI staff collects the results of the survey after the deadline and forwards them to the first author.</td>
</tr>
<tr>
<td>6</td>
<td>The first author drafts the manuscript within 1–2 weeks and circulates it among SIC co-authors, EACVI staff, and committee chair.</td>
</tr>
<tr>
<td>7</td>
<td>The first author circulates the commented manuscript to the rest of the SIC committee for final comments.</td>
</tr>
<tr>
<td>8</td>
<td>The EACVI staff or first author submits the final manuscript to EHJ CVI.</td>
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</table>
Summary

The EACVI is dedicated to maintaining the highest scientific and professional standards in all its activities. The SIC documents published by the EACVI will present relevant information on important clinical topics to guide physicians and other healthcare professionals working with cardiovascular imaging. These documents are meant to be informative and helpful in harmonizing everyday clinical practice among countries and imaging centres across Europe.

The recommendations given in this document are intended as a guide for the authors during the planning and writing of questionnaires and documents with the aim of harmonizing the style of EACVI SIC documents. They provide clear instructions, and each point should be considered and respected by the writing groups.

Conflict of interest: none declared.

References