ANNUAL REPORT 2013

Improving access to medical knowledge
The Cardionetworks Foundation is a non-profit organization founded in 2007 and based in The Netherlands. The goals of the foundation are: “to improve medical knowledge, especially in the field of cardiology, and to provide access to this knowledge by facilitating publications in digital or other form, amongst other means by building and maintaining websites.” As a not-for-profit organization, all revenues are spent in the pursuit of this cause.

Cardionetworks manages specialized websites, providing high quality and up-to-date information freely to physicians all around the world. Our websites are all published under a creative commons license and the information is accessible without login or registration. We subscribe to the HONcode principles of the Health On the Net Foundation.

Make a donation

As a charitable enterprise, we rely entirely on the generosity of our supporters to allow us to continue in our work. To join our growing list of supporters please contact vanderbilt@cardionetworks.org to discuss the best way to contribute.

Every cent you are able to give helps us further promote free global access to vital medical information and resources.

Thank you for your generosity.
MESSAGE FROM THE FOUNDATION BOARD

Welcome to the 2013 annual report of Cardionetworks. Since its inception in 2007, the goal of the Cardionetworks Foundation has been to provide free and open access to unbiased and up-to-date medical knowledge to the global medical community. The non-profit organization enjoys a significant international online presence from its base in The Netherlands.

The foundation publishes and maintains a series of websites offering physicians invaluable, reliable and up-to-date information on certain specialized subjects. Our websites are published under a creative commons license, allowing free, global access without login or registration.

We are delighted that the number of visitors to Cardionetworks websites continues to increase. Over 1.7 million visits to our websites were logged in 2013, and the average time each visitor spent on the website was more than 2.5 minutes. Our global reach now extends to 222 countries, and we are particularly proud that increasing numbers of our visitors are located in developing countries.

Fundraising is challenging in tougher economic era, and in 2013 we were unable to raise enough funds to create a buffer for the medium-term future of Cardionetworks. Funds were used to expand and increase the quality of the website content, and to move all websites to new dedicated servers. In collaboration with Health[e] Foundation the Textbook of Cardiology was completed. Also, an iBook version of ECGpedia went on sale in the Apple Store.

None of the achievements of this year, or during the lifetime of Cardionetworks, would have been possible without the tremendous efforts of the many volunteers who have helped in the process. As always, the foundation board is grateful for all the work and time that have been freely given to make this project such a success.

Jonas de Jong, MD, PhD
Ivo van der Bilt, MD
Martijn Meuwissen, MD, PhD
Pieter Postema, MD, PhD
Cardionetworks foundation board.
The general trend is towards continued increase in visitor numbers to both the English and Dutch versions of ECGpedia (en.ECGpedia.org and nl.ECGpedia.org). An increase in traffic was noted after the loading times of the websites was improved by implementing a new webserver and improving the information workflow.

The majority of visitors located the site through a search engine. A variety of search terms were used to locate the site, including “myocardial infarction”, “pathologic q waves”, “QTc calculator”, and “QRS axis”, demonstrating the genuine need for this service.

A total of 67% of visitors were new to en.ecgpedia.org during 2013.

### VISITORS STATISTICS

<table>
<thead>
<tr>
<th>Country/Territory</th>
<th>Acquisition</th>
<th>% New visits</th>
<th>New visits</th>
<th>Behavior</th>
<th>Pages/Visits</th>
<th>Avg. visit duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>1,460,416</td>
<td>67.03%</td>
<td>978,909</td>
<td>19.86%</td>
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<tr>
<td>Netherlands</td>
<td>466,288</td>
<td>77.22%</td>
<td>360,048</td>
<td>8.99%</td>
<td>4.92</td>
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</tr>
<tr>
<td>United Kingdom</td>
<td>103,248</td>
<td>70.83%</td>
<td>73,135</td>
<td>6.98%</td>
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<tr>
<td>Belgium</td>
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<td>34,715</td>
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<td>India</td>
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<td>7.74%</td>
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<td>78.94%</td>
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<tr>
<td>New Zealand</td>
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<td>67.65%</td>
<td>6,806</td>
<td>7.27%</td>
<td>5.98</td>
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</tbody>
</table>
The majority of visitors located the site through a search engine, demonstrating the genuine need for this service.
Highlights of 2013

Over 1.7 million visits from 222 countries were logged, with an average visit lasting more than 2.50 minutes.

In collaboration with the Health[e]Foundation the major chapters of the Textbook of Cardiology were completed.

Server upgraded once more to meet continuing and increasing demands.
First online Dutch ECG course available at www.drj.nl.

Launch of ECGpedia.nl.

Launch of nl.ecgpedia.org.

Founding of the Cardionetworks Foundation.

Translation of ECGpedia from Dutch into English initiated. Launch of en.ecgpedia.org.

July 2007
A total of 90,000 visits to the Dutch site and 4,500 to the English site recorded. Google has 673 search-hits on ‘ECGpedia’.

August 2007

September 2007
Foundation awarded first prize for ‘young talent’ at a Dutch e-learning symposium.

November 2007
120,000th visitor logs on to the Dutch ECG site.

March 2008
Conclusion of a successful fundraising campaign. Premium donations received from Novartis, St. Jude Medical, Philips Medical and Boston Scientific.

April 2008
Launch of the De Voogt Archive, an online ECG archive housing more than 2000 ECGs.

April 2008
1,000,000th pageviews recorded on ECGpedia.

August 2008
Martijn Meuwissen, MD, PhD, cardiologist, joins the board of the Cardionetworks Foundation.

December 2010
The Dutch Tax Administration has designated the Cardionetworks Foundation as an Institution for General Benefit (ANBI, Algemeen Nut Beogende Instelling), making gifts tax deductible in The Netherlands. Scientific poster presentation on ECGpedia.org at the European Society of Cardiology conference.

January 2011
Signed agreement with Wikipedia to allow usage of images and contents of ECGpedia on Wikipedia.

March 2011
Work on an up-to-date online Textbook of Cardiology has commenced.

December 2011
Scientific oral presentation about Brugadadrugs.org at the 4th Asia Pacific Heart Rhythm Society Scientific Session 10,000,000th pageview recorded on ECGpedia Cardionetworks foundation website redesigned. Pocket reference cards of PCIpedia and ECHOpedia published. Moodle.ecgpedia.org online in a test version, a formal version of the ECG course with exam questions. Also free.

December 2012
Server upgrade. In collaboration with the HealthFoundation the Textbook of Cardiology project is commenced. Increasing amount of spam on our websites necessitates to shut down direct edit options on our websites. Increasing number of visits to ECHOpedia.org

December 2013
Pieter Postema, MD PhD, has joined the board. Scientific publication covering brugadadrugs.org in Europace. In collaboration with the HealthFoundation the major chapters of the Textbook of Cardiology were completed. Textbook of Cardiology receives the Health on the Net Honcode certification. iBook for iPad version of ECGpedia online.

The Cardionetwork Foundation — Annual Report 2013
Users can contribute to Cardionet works. We welcome all improvements to our websites. We subscribe to the HONcode principles of the Health On the Net Foundation.

Anyone can contribute to the Cardionetworks websites through Mediawiki software. We welcome all improvements to our websites. All suggestions for improvement are screened by physician moderators.

A complete list of our websites is given below.

ECGpedia

ECGpedia is a free electrocardiography (ECG) course and textbook designed for medical professionals such as cardiac care nurses and physicians. It is the primary website of the CardioNetworks Foundation. Since it’s foundation, ECGpedia has become an important source of up-to-date information on ECG interpretation. The website now includes more than 2500 example ECG’s provided by contributors around the world. Current efforts are directed towards improvement of the readability of the websites, more interactivity with visitors (quizzes and polls). A comprehensive online ECG basics course with exam is now available (moodle.ecgpedia.org). In addition, an iBook version of the website has been developed.

Textbook of Cardiology

The Textbook of Cardiology is an up-to-date and freely accessible online cardiovascular reference work. This is a project in collaboration with the Health[e]Foundation. The Health[e]Foundation has much experience with HIV education for medical professionals in developing countries. Requests came forward from participant for cardiovascular education. In collaboration the textbook has now been written. It will be made available online by Cardionetworks and offline by the Health[e]Foundation which will include the text on USB sticks that are distributed through their network.
Contributors to the online Textbook of Cardiology

Editors
- Jonas S.S.G. de Jong, MD, PhD, FESC, OLVG, The Netherlands
- Fransje van der Waals, MD, PhD, The Netherlands

Authors
- Renée van den Brink, MD PhD, AMC, The Netherlands
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- Ronak Delewi, MD, AMC, The Netherlands
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- Tim van de Hoef, MD, AMC, The Netherlands
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- John Kastelein, MD, PhD, AMC, The Netherlands
- Wouter Kok, MD, PhD, AMC, The Netherlands
- Sébastien Krul, MD, AMC, The Netherlands
- Alice Li, MD, PhD, USA
- Heather Melrose, Manchester, UK
- Barbara Mulder, MD, AMC, The Netherlands
- Ineke Nederend, AMC, The Netherlands
- Louise Olde Nordkamp, MD, AMC, The Netherlands
- Annelieke van Riel, MD, AMC, The Netherlands
- Josien Rozenburg, Msc, The Netherlands
- Hayang Yang, AMC, The Netherlands
- Esther Wiegerinck, AMC, The Netherlands
- Arthur Wilde, MD, PhD, AMC, The Netherlands
- Janneke Wittekoek, MD, PhD, The Netherlands
- Pier Woudstra, MD, AMC, The Netherlands
Echopedia

Echopedia is a free echocardiography textbook, designed for medical professionals such as cardiologists and echocardiography technicians. The site is still under development. Echopedia now contains more than 900 echocardiogram images from more than 170 cases provided by the AMC Echolab. An overview of all echocardiographic normal values is now presented on the website. In 2013 we received an excellent contribution of basic text chapters that were missing and are currently being converted to the website format.

PCIpedia

PCIpedia is a free textbook on intervention cardiology, designed for medical professionals such as cardiologists and cathlab technicians. The site is still under development. The first batch of coronary angiography cases is now online. Also, a start has been made to introduce visitors to angiographic coronary anatomy and technique. A pocket reference card has been developed and printed to give a quick review of coronary angiographic views.

BrugadaDrugs.org

The Brugada syndrome has been recognized as an important cause of sudden cardiac death in individuals at a relatively young age. Many drugs have been associated with adverse events in Brugada-syndrome patients. These drugs may either induce life-threatening ventricular arrhythmias and/or induce the characteristic Brugada syndrome-linked ECG abnormalities which are associated with poor outcome.

BrugadaDrugs.org provides an overview on the available evidence and expert opinion regarding drug safety in Brugada syndrome. And is the result of a recently performed review of the literature. BrugadaDrugs.org ensures worldwide and up-to-date availability of this knowledge base to physicians and patients. This site was launched by Pieter Postema and is hosted by Cardionetworks.

Foundation websites

www.brugadadrugs.org
www.cardiolinks.org
www.cardionetworks.org
www.ecgpedia.org
www.echopedia.org
www.pcipedia.org
www.textbookofcardiology.org
www.thefailingheart.org
www.thrombopedia.org
Offline content

While the majority of our effort at Cardionetworks is focused towards delivering high-quality, freely-available medical information over the Internet, we also offer certain information and training offline.

ECGpedia pocket cards are available and have been proved very popular. They can be printed out online, and ordered in a full colour and laminated print. More than 12000 preprinted cards have been distributed.

Live ECGpedia courses have proved very popular amongst the following groups:

- Dutch medical students
- Anesthetist residents
- General practitioners
- Junior doctors
- Anesthesia and internal medicine residents

A PCIPedia pocket card has been published

An Echopedia pocket card has been published

Visitor statistics 2013:

- ecgpedia.org 1460416
- echopedia.org 112853
- brugadadrugs.org 45915
- textbookofcardiology.org 15125
- thrombopedia.org 10828
- pcipedia.org 7003
- cardionetworks.org 2540
FOUNDATION BOARD

Jonas de Jong, MD
Chair
Cardiologist
Onze Lieve Vrouwe Gasthuis
The Netherlands.

Pieter G. Postema, MD, PhD
Secretary
Cardiology resident
Academic Medical Centre, University of Amsterdam
The Netherlands.

Martijn Meuwissen, MD, PhD
Treasurer
Cardiologist, Interventionalist
Amphia Hospital Breda
The Netherlands.

Ivo van der Bilt, MD
Board member
Cardiology resident
Academic Medical Centre, University of Amsterdam
The Netherlands.

Christian van der Werf, MD
Board member
Cardiology resident
Academic Medical Centre, University of Amsterdam
The Netherlands.
BENEFACTORS OF THE FOUNDATION IN 2013

PREVIOUS YEARS SPONSORS

MSD

Medtronic

Servier

Novartis

St. Jude Medical

Boston Scientific
### Accounts 01.01.2013

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<th>Revenues</th>
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<td>Banking</td>
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<tr>
<td>Reference card &amp; book revenues</td>
<td>Webhosting costs</td>
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<tr>
<td></td>
<td>Insurances and contributions</td>
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<tr>
<td></td>
<td>Content development &amp; office</td>
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<td>Reservation</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
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| Accounts 31.12.2013 | 5902 |

### Balance sheet 2013

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<td></td>
<td>Accounts payable 0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong> 5902</td>
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</table>
CARDIONETWORKS’ MISSION

“To improve medical knowledge, especially in the field of cardiology, and to provide access to this knowledge by facilitating publications in digital or other form, amongst other by building and maintaining websites.”
The Cardionetworks Foundation

www.cardionetworks.org
info@cardionetworks.org

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Registered with the Chamber of Commerce Amsterdam
KVK 34274298

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