CARDIO NETWORKS.ORG

ANNUAL REPORT 2017







Improving access to medical knowledge

CARDIONETWORKS IN BRIEF

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 upto-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.

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 vanderwerf@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. Please know that the board members of the Cardionetworks.org Foundation are not receiving financial compensation for their work.

Thank you for your generosity.

MESSAGE FROM THE FOUNDATION BOARD

Welcome to the 2017 annual report of Cardionetworks, our 10th anniversary! 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, nurses and students 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 to report that the number of visitors to Cardionetworks websites still continues to increase.

This year we reached a litle over 2,7 million visits, a new record again! The average time each visitor spent on the website remained around 2 minutes. Our global reach now extends to 229 countries, and we are particularly proud that increasing numbers of our visitors are located in developing countries. India for example has moved from the 4th to the 3rd place in our visitor statistics and Malaysia and the Phillipines have swapped places at the 8th and 9th position.

Furthermore, we are still particularly grateful to dr. Alex Hovner who contributed immensely to ECHOpedia.org. This also spurred visitor numbers again with over 100.000 extra visits compared to last year.

Fundraising remains extremely challenging in this tough economic era. In 2013 and 2014 we were unable to raise enough funds to create a buffer for the medium-term future of Cardionetworks. Last year we were able to increase our balance, mainly due to our work for the stakeholders of SYNCOpedia.org, and this year we are about even on our balance. Like every year, our funds were used to expand and increase the quality of the website content, to keep moving all the websites to new dedicated servers including adoptation of the Cloud-flare software to ensure faster and more reliable access from all over the world. Our reference cards from ECGpedia, ECHOpedia and PCIpedia reference cards which are sold online are currently one of our most valuable assets to maintain our balance.

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, Chair

Pieter Postema, MD, PhD, Secretary

Christian van der Werf, MD, PhD, Treasurer

The Cardionetworks Foundation board.

VISITORS STATISTICS

The general trend is still towards continued increase in visitor numbers to the English version of ECGpedia (en.ECGpedia.org). The Dutch and Danish versions of ECGpedia. org are projecting a fast decay of visitors (nearly absent). This year we experienced a new record in visits to ECGpedia.org approaching 2 million visits in a single year. We only doubt whether the users versus new users statistics are accurate, these numbers are extremely comparable, which could be due to browser settings in many of the users.

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.

The geographical distribution of visits to en.ecgpedia.org is shown in the map. The majority of users continue to be based in English-speaking 'developed' countries. However, visitors from countries such as India, the Philippines and Malaysia represent a significant proportion of our users.

Country/Territory	Acquisition			Behavior		
	Users	New Users	Sessions	Bounce Rate	Pages / Session	Avg. Session Duration
	1,387,476 % of Total: 100.00% (1,387,476)	1,368,866 % of Total: 100.07% (1,367,919)	1,931,778 % of Total: 100.00% (1,931,778)	69.51% Avg for View: 69.51% (0.00%)	2.30 Avg for View: 2.30 (0.00%)	00:02:04 Avg for View: 00:02:04 (0.00%)
United States	408.076 (29.34%)	407.952	489.549	78,62%	1,75	00:01:07
Netherlands	331.147 (23.81%)	316.342	576.166	54,63%	3,2	00:03:21
India	96.249 (6.92%)	95.376	124.761	79,67%	1,54	00:01:23
United Kingdom	84.516 (6.08%)	83.865	104.043	76,43%	1,84	00:01:15
Belgium	60.415 (4.34%)	59.229	98.234	58,04%	3,06	00:03:04
Australia	38.590 (2.77%)	38.310	47.963	77,66%	1,78	00:01:20
Canada	36.758 (2.64%)	36.682	45.659	77,49%	1,78	00:01:15
Philippines	19.855 (1.43%)	19.771	23.846	83,42%	1,34	00:01:04
Malaysia	17.859 (1.28%)	17.822	22.963	81,57%	1,48	00:01:16
Saudi Arabia	12.812 (0.92%)	12.649	16.645	78,69%	1,78	00:01:34

• Visitor statistics of en.ECGpedia.org in 2017

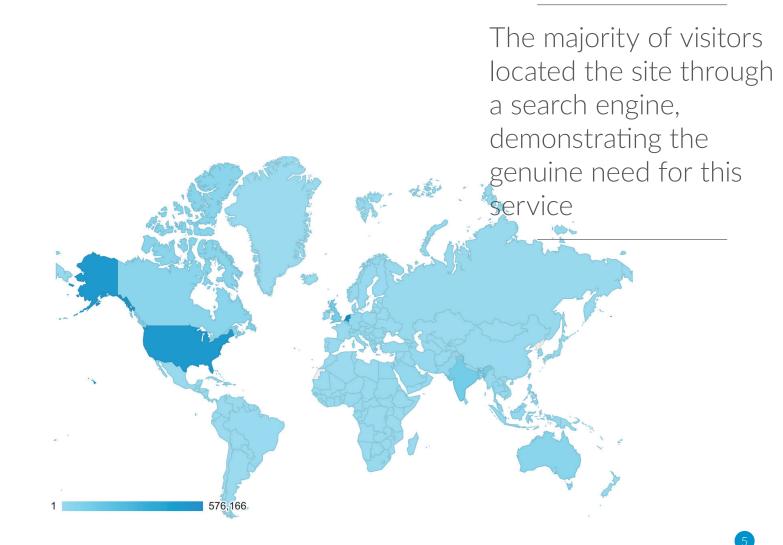


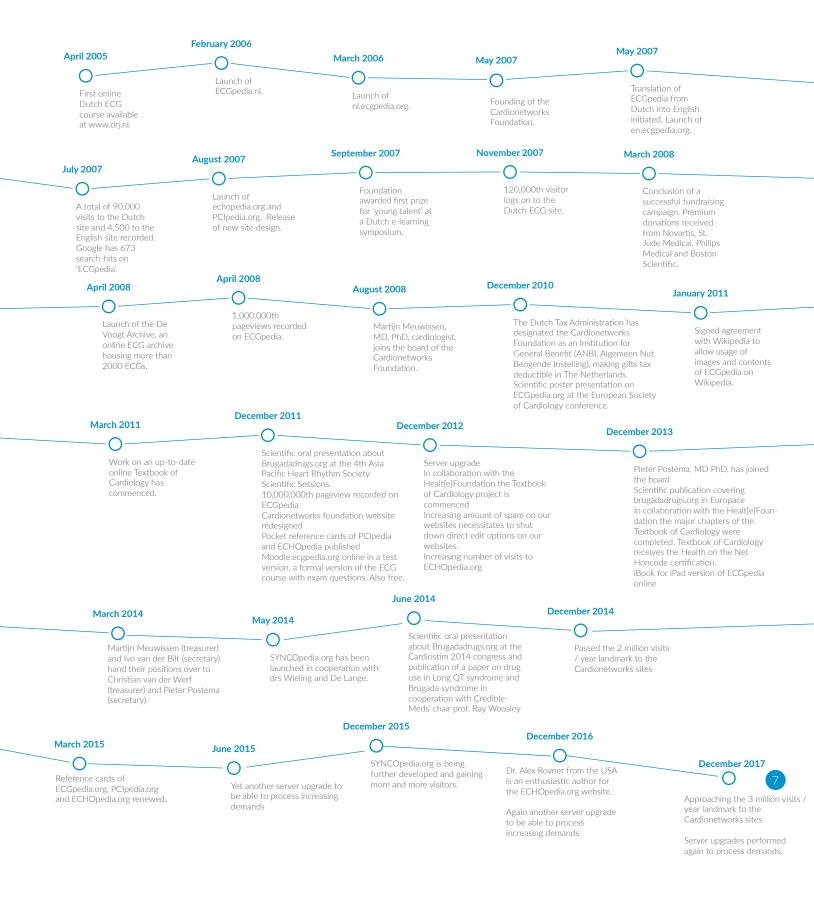
Figure 1. Sessions by country.

CARDIONETWORKS: A TIMELINE OF ACHIEVEMENT

Highlights of 2017

Over 2.7 million visits from 229 countries were logged, with an average visit lasting around 2 minutes

Server upgraded once more to meet continuing and increasing demands and introduction of CloudFlare to be able to regulate the continuing increase in visitors from all over the world.



CARDIONETWORKS RESOURCES

Cardionetworks' first project was ECGpedia.org, an online electrocardiography course. We have since created, and continue to maintain, around 30 individual websites, all dedicated to improving medical knowledge in the field of cardiology. 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.

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 contibutors 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 devoping 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. Anyone can contribute to Cardionetworks. We welcome all improvements to our websites.

Contributors to the online Textbook of Cardiology

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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.

PClpedia

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 in 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.syncopedia.org www.textbookofcardiology.org www.thefailingheart.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 practioners
- Junior doctors
- Anesthesia and internal medicine residents

A PCIpedia pocket card has been published

An Echopedia pocket card has been published

Visit statistics 2017:

en.ecgpedia.org 1.931.778

nl.ecgpedia.org 22

echopedia.org 603.741

brugadadrugs.org 86.710

textbookofcardiology.org 61.603

thrombopedia.org Cloudflare

pcipedia.org Cloudflare

cardionetworks.org 5.769

syncopedia.org 11.099

FOUNDATION BOARD



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Pieter G. Postema, MD, PhD Secretary

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Christian van der Werf, MD, PhD Treasurer

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COMMERCIAL BENEFACTORS OF THE FOUNDATION IN 2017:

~NONE~

PREVIOUS YEARS COMMERCIAL SPONSORS





U NOVARTIS

ST. JUDE MEDICAL

BIOTRONIK

Scientific



FINANCIAL REPORT

Accounts 01.01.2017	10449				
Revenues		Expenses			
Benefactors	0	Banking	108		
Website development	osite development 2250 Webhosting of		2241		
Reference card & book revenues	1531	Content development & office	633		
		Reference cards	571		
		Reservation	0		
Total	3781		3552		
Accounts 31.12.2017	10678				
Balance sheet 2017					
Assets		Debts			
Accounts	10678	Capital	10678		
		Accounts payable	0		
Total	10678		10678		

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."

CONTACT

The Cardionetworks Foundation

www.cardionetworks.org

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The Dutch Tax Administration has designated the Cardionetworks Foundation as an Public Benefit Organisation (ANBI, Algemeen Nut Beogende Instelling). Gifts to the Cardionetworks Foundation can be tax deducted in the Netherlands. This not only applies to the deduction of donations for the income tax but also to the company tax and inheritance tax.

CREATIVE COMMONS

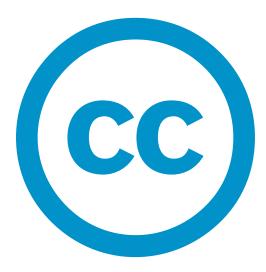
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to $\operatorname{Remix}-\operatorname{to}$ adapt the work.



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