



Izvanredni sastanak nukleusa Radne skupine "Computers in Cardiology" Europskog kardiološkog društva

Extra Nucleus meeting WG "Computers in Cardiology", European Society of Cardiology

Goran Krstajić

*Poliklinika za prevenciju kardiovaskularnih bolesti i rehabilitaciju, Zagreb, Hrvatska
• Institute for Cardiovascular Diseases Prevention and Rehabilitation, Zagreb, Croatia*

U Barceloni je od 17. do 18. svibnja 2009. godine održan prvi izvanredni sastanak nukleusa Radne skupine "Computers in Cardiology" Europskog kardiološkog društva (ESC). Sastanku je pribivalo devet članova Nukleusa (opravdan izostanak prof. P. Chevalier iz Lyona) te gđa Celine Serio iz Ureda za radne skupine Europske kuće srca iz Sophia Antipolis.

Sastanak je protekao u vrlo ugodnoj i nadasve radnoj atmosferi. Na sastanku je predsjednik Radne skupine, dr Nico Bruining, invazivni kardiolog iz Erasmus/Thorax centra iz Rotterdama podnio izvješće o radu u proteklom periodu. Najavio je dva simpozija koja će biti održana pod okriljem radne skupine tijekom kongresa ESC u Barceloni u rujnu ove godine: "Heart rate turbulence" i "New developments in telecardiology". Također je najavio zajedničke simpozije sa drugim radnim skupinama koji će biti održani tijekom EuroPCR, EuroPace i EuroEcho kongresa ove godine. Podržana je inicijativa za što boljom suranjom između srodnih radnih skupina i organiziranje zajedničkih simpozija na kongresima i konferencijama pod okriljem ESC.

Gospođa Celine Serio iz Europske kuće srca izložila je program organizacijske i logističke podrške budućoj djelatnosti radnih skupina te promovirala novi logo radnih skupina i nove kartice, tzv. "flyers" sa osnovnim podacima o voditeljima i članovima nukleusa kao i zadatcima, inicijativama i projektima radnih skupina. Kartice će biti distribuirane tijekom kongresa pod okriljem ESC.

The first extra Nucleus meeting of the Working Group (WG) "Computers in Cardiology" of the European Society of Cardiology was held in Barcelona from 17th to 18th May 2009. Nine members of the Nucleus and Mrs. Celine Serio from the WG Office of the European Heart House from Sophia Antipolis attended the meeting (justified absence of Prof. P. Chavalier from Lyon).

The meeting was held in a pleasant working atmosphere. The president of the WG, Nico Bruining, PhD, the invasive cardiologist from the Erasmus/Thorax Center in Rotterdam, has submitted the annual work report of the previous period. He has announced two symposiums which will be organized by the WG during the ESC Congress in Barcelona in September this year: "Heart rate turbulence" and "New developments in telecardiology". He has also announced joint symposiums with some other work groups which will be held during the EuroPCR, EuroPace and EuroEcho conferences later this year. The initiative for better cooperation between related WG and organization of joint symposiums at conventions and conferences organized by ESC was endorsed.

Mrs. Celine Serio from the European Heart House has laid out the program for organizational and logistic support of the future activities of the WG and has promoted the new logo for the WG as well as the new cards, so called "flyers", with essential information about the leaders and the members of the Nucleus as well as missions, initiatives



Picture 1. Nucleus of Working Group
"Computers in Cardiology"

From the left: G. Krstajić (Croatia); W. Dassen (Netherlands); E. van der Velder (Netherlands); A. Macarata (Italy); N. van der Putten (Netherlands); G. Carrault (France); M. Hoher (Germany); N. Bruining (Netherlands).



Kardiolog, prof. Marek Malik, FESC iz Surrey, Velika Britanija, tajnik radne skupine, izložio je mogućnosti nastanka smjernica za "Alternirajući T val u stratifikaciji kardijskog rizika" što bi se ostvarilo konsenzusom radne skupine "Computers in Cardiology", "International Society for Holter and Noninvasive Electrocardiology" (ISHNE), "International Society of Computerised Electrocardiology" i "European Cardiac Arrhythmia Society".

Razmatrana je i mogućnost osuvremenjivanja postojećih smjernica o varijabilnosti srčanog ritma koje datiraju iz 1996. godine. Inicijativa će biti pokrenuta već za nekoliko tjedana za vrijeme održavanja ISHNE kongresa u Yokohami u Japanu gdje će sa pozvanim predavanjima nazočiti prof. Malik i član Nukleusa ass. prof. Alberto Macerata, neinvazivni kardiolog iz Pizze, Italija.

Doktor Niek H. van der Putten, inženjer računarstva iz Erasmus/Thorax centra iz Rotterdama izložio je problematiku pohrane i pregleda visokorezolucijskih prikaza koji poglavito nastaju tijekom invazivnih kardioloških procedura i prikazom MSCT i MR srca i koronarnih arterija. Predložena je rasprava o tom problemu, navlastito o razmjeni slikovnih prikaza između liječnika i institucija. Ass. prof. A. Macerata je predložio simpozij pod nazivom "Cardiac Imaging Jungle" s "pro et contra" debatom koji bi se mogao održati već tijekom sastanka članova radne skupine na slijedećem Europskom kardiološkom kongresu.

Posebna točka dnevnog reda bilo je izlaganje prim. dr. sc. Gorana Krstačić, FESC iz Hrvatske, člana nukleusa Radne skupine o mogućnostima pristupanja/pridruživanja različitim Europskim projektima, poglavito integrativnim projektima EU. Predstavljene su sadašnje mogućnosti i naglašena je potreba i mogućnosti još uže suradnje između određenih europskih institucija koje se bave sličnom biomedicinskom problematikom ali i mogućnost uključivanja u bilateralne projekte za što su kao uspješan primjer prikazani recentno realizirani bilateralni projekti između država Hrvatska — Slovenija, Hrvatska — Italija te Hrvatska — NATO Security through Science.

Prim. dr. sc. Krstačić je za svoj rad kao predsjednik savjetničkog odbora velikog trogodišnjeg FP6-STREP projekta broj 027107 — HEARTFAID (Support for the Medical Clinical Management of Heart Failure within Elderly Population) dobio pohvale i preporuke voditelja i suradnika na projektu.

Praksa sadašnjih velikih integrativnih projekata (koji su već u fazi recenzije) i budućih je da se u savjetničke odbore i vanjske suradnike projekata pokušaju uključiti što kvalitetniji znanstvenici i vrhunskih liječnici određenih područja ciljanog projekta. Stoga su primjerice za FP7 projekte koji su trenutno u recenziji poslani zahtjevi prema ESC i European Health Management Association koji će ili su već proslijeđeni prema voditeljima i upravi odgovarajućih radnih skupina ovisno o temi projekata.

Prim. dr. sc. Krstačić je sukladno svom dugogodišnjem radu u području primjene računarstva u biomedicini upravo predložen od strane ESC na preporuku predsjednika i članova uprave radne skupine "Computers in Cardiology" i voditelja projekta Heartfaid za savjetnički odbor novog integrativnog FP7 projekta (koji je trenutno u fazi recenzije) pod nazivom "HEARTDRIVE — A PERSONAL HEALTH CARE SYSTEM FOR REMOTELY "DRIVING" CARDIOVASCULAR DISEASES MANAGEMENT". Klinički fokus ovog

and the projects of the work groups. The cards will be distributed during the congress organized by ESC.

The cardiologist, Prof. Marek Malik, FESC from Surrey, Great Britain, the secretary of the WG, has laid out the possibilities of generation of guidelines for "T-wave Alterans in Cardiac Risk Stratification" which would be achieved through a consensus between the WG "Computers in Cardiology", "International Society for Holter and Noninvasive Electrocardiology" (ISHNE), "International Society of Computerised Electrocardiology" and the "European Cardiac Arrhythmia Society".

The possibility of modernizing the existing guidelines for variable heart rate dating from 1996 was also discussed. The initiative will already be started within a few weeks during the ISHNE Conference in Yokohama, Japan, where prof. Malik and the ass. prof. Alberto Macerata, the noninvasive cardiologist from Pizze, Italy, will attend the congress with their lectures.

Doctor Niek H. van der Putten, computer scientist from the Erasmus/Thorax Center in Rotterdam has explained the problem of storage and review of high resolution images made mostly during invasive cardiac procedures and the MSCT and MR images of the heart and coronary arteries. A discussion on this problem was proposed, especially about the exchange of images between physicians and institutions. Ass. Prof. A. Macerata has proposed a symposium entitled "Cardiac Imaging Jungle" with a "pro et contra" debate which could be already held during the meeting of the WG members during the next European Cardiology Congress.

The special item on the agenda was the presentation by Goran Krstačić, MD, PhD, Head Doctor, from Croatia, the member of the Nucleus WG on possibilities of admission/association with various European projects, mainly integrative EU projects. Current possibilities were presented and the need as well as possibilities for closer cooperation between certain European institutions involved in similar biomedical issues were emphasized, and also the possibility of joining bilateral projects like the recently realized bilateral projects between Croatia — Slovenia, Croatia — Italy and Croatia — NATO Security through Science.

Dr Krstačić has received praise and recommendations from leaders and associates on the project for his work as the president of the advisory board on the large three year FP6-STREP project number 027107 — HEARTFAID (Support for the Medical-Clinical Management of Heart Failure within Elderly Population).

The practice of recent large integrative projects (that are already in the review phase) and the future ones is to try to include high quality scientists and top physicians in specific areas of target project into project advisory boards and as outsourced project associates. Therefore, for example, for the FP7 projects which are currently being reviewed, the requests were sent to the ESC and the European Health Management Association which will be or have already been forwarded to the leaders and the management of the relevant WG, depending on the project topic.

Dr Krstačić has pursuant to his long standing work in the field of computer application in biomedicine just been nominated by the ESC upon recommendation of the president and the members of the board of the WG "Computers in Cardiology" and the leader of the project Heartfaid to the advisory board of the new integrative FP7 project



velikog petogodišnjeg projekta u koji bi bilo uključeno 20 kliničkih i tehničkih partnera iz EU i Hrvatske bio bi usmjeren prema bolesnicima s visoko izraženim čimbenicima rizika koronarne bolesti, bolesnicima sa ishemijskom kardiomiopatijom, zatajivanjem srca, srčanim aritmijama, prevenciji iznenadne srčane smrti i koronarnim bolesnicima s pridruženim bolestima ili stanjima poput zatajenja rada bubrega ili KOBP. Predviđeni ukupni budžet ovog projekta iznosi 18 milijuna eura, a iz Hrvatske je predviđeno sudjelovanje Zavoda za elektroniku Instituta "Ruđer Bošković" koji bi bili nositelji jednog cijelog projektnog dijela (work package).

Pri kraju sastanka otvorena je rasprava o budućem voditeljstvu ove radne skupine. Dosadašnjem potpredsjedniku radne skupine dr. Williamu R. M. Dassen, FESC kardiologu iz Maastrichta, Nizozemska ističe mandat te je za novog potpredsjednika izabran dr. Eno T. Van der Velder, FESC, medicinski fizičar iz Leidena, Nizozemska. On će na dužnost stupiti u rujnu ove godine, na Europskom kardiološkom kongresu i njegov mandat će trajati godinu dana nakon čega će postati predsjednik radne skupine u dvogodišnjem mandatu. Sadašnji tajnik radne skupine Prof. Marek Malik je postao "Vice-Chairman-elect" a član nukleusa Radne skupine prim. dr. sc. Goran Krstajić je postao "Secretary-elect". Oni će na nove dužnosti stupiti na Europskom kardiološkom kongresu 2010. godine u Stockholmu.

Sastanak je završio u vrlo prijateljskoj atmosferi i sljedeći susret je zakazan na sastanku članova radne skupine tijekom Europskog kardiološkog kongresa u Barceloni ove godine.

Received: 28th May 2009

E-mail: goran.krstacic@zg.t-com.hr

(which is currently being reviewed) entitled "HEARTDRIVE - A PERSONAL HEALTH CARE SYSTEM FOR REMOTELY "DRIVING" CARDIOVASCULAR DISEASES MANAGEMENT". The clinical focus of this large five-year project which would include 20 clinical and technical partners from the EU and Croatia was focused on patients with extremely high risk factors of coronary disease, patients with ischemic cardiomyopathy, heart failure, cardiac arrhythmia, prevention of sudden cardiac death and coronary patients with related diseases and conditions like the kidney failure or the COPD. The forecasted budget for this project is 18 million Euros, and there is a scheduled participation of the Division of Electronics of the "Ruđer Bošković" Institute from Croatia which would carry out one whole work package.

The discussion about the future leadership of this WG was opened at the end of the meeting. The term of office of the current WG vice president William R. M. Dassen, PhD, FESC, cardiologist from Maastricht, Netherlands expires, so Eno T. Van der Velder, PhD, medical physicist from Leiden, Netherlands was elected as the new president. He will receive this office in September this year, at the ESC Congress and his term of office will last for one year after which he will become the president of the WG for a two year term. The current secretary of the WG Prof. Marek Malik has become the Vice Chairman-elect, and the member of the nucleus of the WG Dr Goran Krstajić has become the Secretary-elect. They will receive their office at the ESC Congress in 2010 in Stockholm.

The meeting ended in a friendly atmosphere and the next meeting was scheduled at the meeting of the work group members during the European Cardiology Congress, this year in Barcelona.



Picture 2. President of Working Group Nico Bruining and Goran Krstajić

Extra Nucleus meeting WG "Computers in Cardiology", European Society of Cardiology, Barcelona 17-18 May 2009

Literature

1. Marek M, Camm AJ. Dynamic electrocardiography. Wiley, John & Sons, Incorporated Pub. 2004. ISBN-13: 9781405119603
2. Bruining N, Knaepen M, de Winter S, et al. A histological "Fly-Through" of a diseased coronary artery. *Circ Cardiovasc Imaging* 2009;2:e8-e9.
3. Gamberger D, Prcela M, Jovic A, et al. Medical knowledge representation within Heartfaid platform, *Proceedings of BIOSTEC 2008*, 307-314.
4. Heartfaid. <http://www.heartfaid.org/> (28. 5. 2009.)