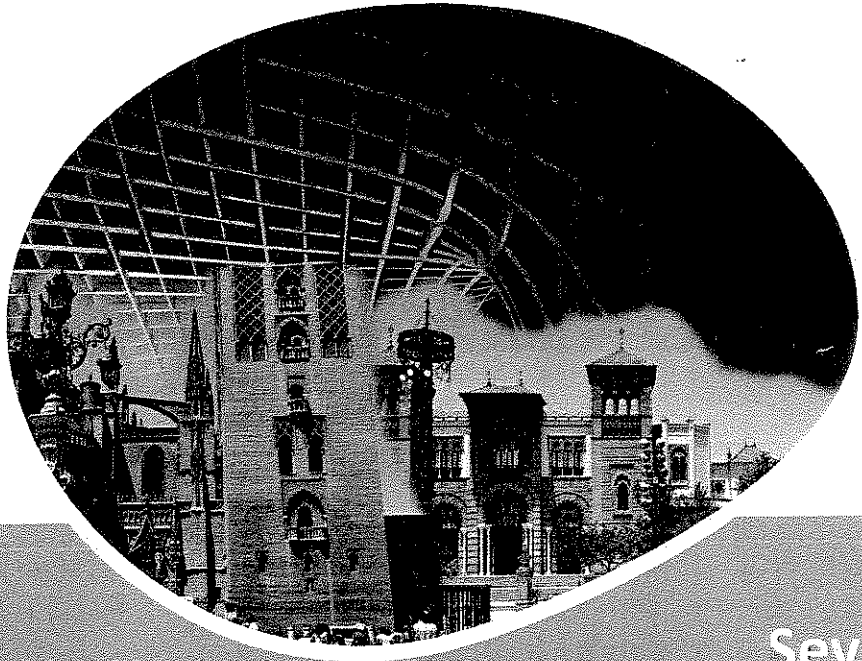


**15<sup>th</sup> EAHIL  
CONFERENCE**

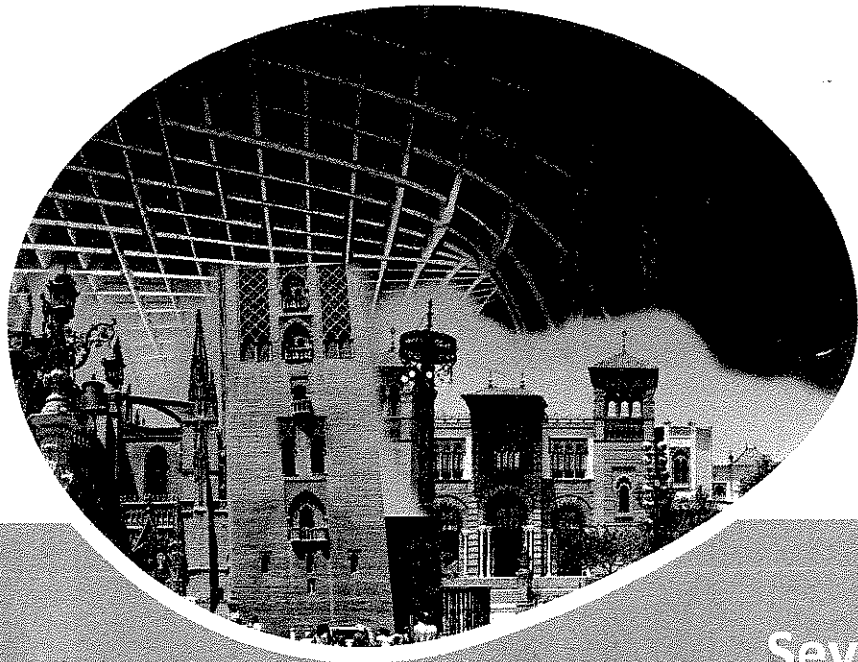


**Seville  
Spain**

**6 - 11 June 2016**

**ABSTRACTS**

**15<sup>th</sup> EAHIL  
CONFERENCE**



**Seville  
Spain**

**6 - 11 June 2016**

**PROGRAMME**

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WELCOME

**Welcome to EAHIL 2016 Conference**

Dear Colleagues,

On behalf of the Local Organizing Committee, I want to welcome you to Seville. It is a pleasure for us to receive such distinguished colleagues.

When the EAHIL Board, and especially Marshall, asked us to organize the 15<sup>th</sup> EAHIL Conference, we were aware of the workload this would mean, but we also knew we could count on our Government support and the Board's, and it has proven to be the case. We had the experience of having organized our National Conference, Bibliosalud 2011, and some other workshops, but nothing compares to a European Conference like this which has had our devoted commitment for the last year.

The IPC is composed of professionals who help us to function at an extremely high scientific level; and colleagues from other Spanish regions, besides the ones from Andalusia, form the LOC. All of them are now here among us, doing their best for a successful Conference.

As it stands, we are able to offer more than 100 presentations and 12 Continuing Educations Courses. Approximately 300 delegates have been registered from 21 European countries, but some of them are also coming from USA, Australia, Tanzania, The Dutch Antilles, Singapore, Iran, Russia, South Africa, Turkey and Canada. I thank all of them for their presence: you make this event possible. Allow me to thank the Course Leaders especially, who have prepared the courses in a completely altruistic and professional way.

And of course, let me express my gratitude to the Board, and Marshall, for having trusted us; to the IPC members, especially Pilar Roque, who, I am sure, was not aware of the workload she had to deal with as Chair of the IPC. Let me also thank the LOC members and above all, my team: Juan, Luis, Jose and Antonio, Pilar, Inma, Pilar, M. Pepa and Victoria, a thousand thanks to Laura for listening to me always with a smile. This Conference and the BV-SPPA, would not have been possible without them.

And finally I wish to extend warm thanks to our sponsors and exhibitors. They provided us with the financial support to make this possible. For the first time in the last few years, we managed to have Diamond and Diamond Plus Sponsors: many thanks to Wolters Kluwer and Elsevier; my recognition to the effort of all the participating companies.

Last Monday was the 10<sup>th</sup> Anniversary of the BV-SSPA. We could not wish for a better celebration than the 15<sup>th</sup> EAHIL Conference.

So, please enjoy the scientific programme and of course the social events.

Welcome to Seville, I hope you make the most of this wonderful city.

**Veronica Juan, MD PhD**  
Librarian  
Chair of the EAHIL 2016 Local Organizing Committee



## Innovative Technologies in the Management of Electronic Medical Records: E-Pulse

**Ref.** P13

**Keywords**

Digital medicine, wearable technology, electronic health record, mobile health, health information technology

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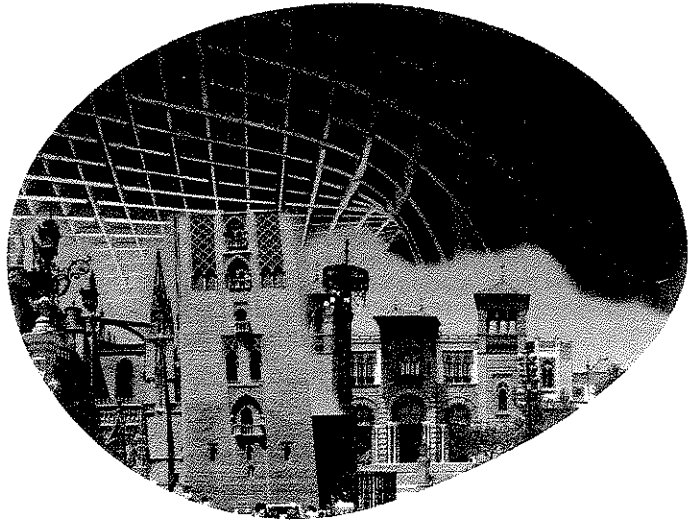
**Presenting Author**

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**Abstract**

The use of informatics and communication technologies in patient record systems and the effective management of these systems is an essential part of the world of medicine today. The e-pulse project initiated in 2015 by the Ministry of Health as part of the programs of e-transformation in medicine that the Ministry launched in 2003 has brought a new dimension to the management of patient medical records. The e-pulse project provides an innovative and enterprising approach to medical record management through a single modular system that integrates the management and auditing of patient e-health records, information about individuals' health and illnesses, medicinal information, treatment processes and imaging data, e-appointments, family physician records, 112 emergency data, child health follow-up systems for parents, smart medicine management, athlete health information systems, calls for emergency blood donations and volunteer donation information, smart bracelets for personal health management, organ donations, patient-doctor communications, and other data. The system's broad and comprehensive medical informatics infrastructure aims to increase the quality and speed of diagnosis and treatment processes, establish a strong network of communication between patient and doctor, and to provide secure access to information over the Internet and on mobile devices. The goal of this portal is to take advantage of the advances in medical information technologies to provide a useable and widespread health service at the required standards. This study examines this personal health information system portal, which has been offered as an instrument that will facilitate the collection and safe sharing of health data via a common database, in terms of the system's accessibility, usability, viewability, sustainability and data security aspects.

## POSTERS



## Innovation

- P12. **Thematic web portal for different user profiles in a virtual health science library: Bibliosalut's experience.** Virgili PAEZ, Monica FONT, Elena PASTOR-RAMON, Silvia SASTRE-SUAREZ, Maria COSTA-MARIN, *Spain*
- P13. **Innovative Technologies in the Management of Electronic Medical Records: E-Pulse.** Gussun GUNES, Huriye COLAKLAR, *Turkey*
- P14. **Fostering knowledge management in healthcare organisations: virtual KM platform TK3™.** Conxi CARO BENITO, Angels JAEN MANZANERA, Antonia ROSELLO CALZADA, Laura BUGUÑA HOFFMANN, *Spain*
- P15. **New opportunities for librarians supporting researchers in grant applications.** Irene MASEDA, Alicia F. GOMEZ-SANCHEZ, *Spain*

## Research

- P16. **Benefit of additional search techniques to support literature searches in systematic reviews: the "forward citation searching" and "similar articles" functions.** Ulrike LAMPERT, Siw WAFFENSCHMIDT, *Germany*
- P17. **The BISON (Bloodstream Infections and Sepsis Outcomes measurement Network) initiative: systematic overview of outcomes used in systematic reviews on interventions for sepsis and/or bloodstream infections.** Luigia SCUDELLER, Cristina CAPITTINI, Federica MANZONI, Valeria SCOTTI, Elena SEMINARI, Lorenzo Roberto SIGNORINI, Liana SUARDI, Annalisa DE SILVESTRI, on behalf of the European Society of Clinical Microbiology and Infectious Diseases working group on bloodstream infections and sepsis (ESGBIS), *Italy*
- P18. **Finding systematic reviews on pain: building the KSR Pain Evidence database.** Kate MISSO, Lisa STIRK, Shelley DE KOCK, Steven DUFFY, Janine ROSS, Marie WESTWOOD, Sohan DESHPANDE, Jeanette KLEIJNEN, Antony MCLELLAN, Jos KLEIJNEN, *UK, The Netherlands*
- P19. **A Systematic Review of Survey Reports in Medical Libraries.** T. Derek HALLING, Margaret FOSTER, *USA*
- P20. **20 years of handsearching in Germany – results and future prospects.** Anette BLUMLE, Laura REHNER, Claudia BOLLING, *Germany*
- P21. **Information support for medical and health care research in Russia.** Tatyana V. KAIGORODOVA, Irina A. KRIUKOVA, *Russian Federation*
- P22. **DIAMONd: The Derby Integrated Model.** Jane SURTEES, *UK*



## Education

- P01. **What would the future be without history? Knowledge and research to preserving the past.** Anna GASPARELLO, Saba MOTTA, *Italy* P12.
- P02. **Beyond healthcare: Information and educations for patients and citizens.** Saba MOTTA, Rosalind HENDRICKS, Annanisia CENTRA, Guilia FEDELI, Serena FERRARA, Anna GASPARELLO, *Italy* P13.
- P03. **The Portuguese National Health Service and the Patient Health Information Workgroup.** Silvia Costa LOPES, Susana Oliveira HENRIQUES, Silvia Almeida SILVA, Grupo de Trabalho de Informaçaõ ao Utente/CAIC. *Portugal* P14.
- P04. **Bibliosan – BMJ: pooling resources in the creation of a new platform between library and training centre.** Silvia MOLINARI, Raffaele CAROLI, Moreno CURTI, Luisa FRUTTINI, Renato GURIN, Stefano GUARISE, Alessandra LORETI, Saba MOTTA, Franco TONI, *Italy* P15.
- P05. **What does Medical Residents 1 (MIR1) know about scientific information to enter the Hospital?** Susana GONZALEZ-LARRAGAN, M. Asuncion GARCIA MARTIN, *Spain* P16.
- P06. **Time to connect: teaching information literacy skills in the online environment.** Anthea TUCKER, *UK* P17.
- P07. **Knowing the digital reading-writing habits of the Resident Medical Interns (RMI) in postgraduate training in the Health Area East of Malaga-Axarquia.** Antonia M. FERNANDEZ-LUQUE, Victor GARCIA-NAVAS, *Spain*
- P08. **Gamification – games in user education, learning, exams.** Bea WINKLER, Krisztina EGRI, *Hungary* P18.
- P09. **Teaching PubMed: an Italian Academic Hospital experience.** Ornella DAL BO, Claudia VIDALE, Luca ARNOLDO, *Italy*
- P10. **Five years of teaching experience at the Medical Library of the Autonomous University of Madrid.** M. Amelia DE-LA-LLANA, M. Pilar BARREDO, Javier CULEBRAS, *Spain* P19.
- P11. **Teaching Literature Search Skills to Undergraduate Students of Librarianship at Charles University in the Czech Republic.** Helena BOUZKOVA, Eva LESENKOVA, Adela JAROLIMKOVA, *Czech Republic* P20.
- P21.
- P22.



# INNOVATIVE TECHNOLOGIES IN THE MANAGEMENT OF ELECTRONIC MEDICAL RECORDS: e-Pulse

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## Introduction

The goal of the e-pulse system is, "to enable the patient's access to the system 24/7 wherever the patient is receiving care in order to obtain information about his/her own medical condition." This system is a patient health data management system that integrates with hospitals of the Ministry of Health, as well as with family doctors, university hospitals and private health institutions.

## A New e-Health System: e-Pulse

e-pulse is a personal data management system that makes it possible for healthcare professionals authorized by the Ministry of Health, to easily, reliably and effectively access personal medical data. e-pulse is the world's broadest and most comprehensive medical informatics infrastructure and encompasses an entire system whereby regardless of where medical examinations, lab studies and treatment are conducted, individuals can manage the medical data produced about themselves, access their medical history from a single source and share this data with whomever they wish.

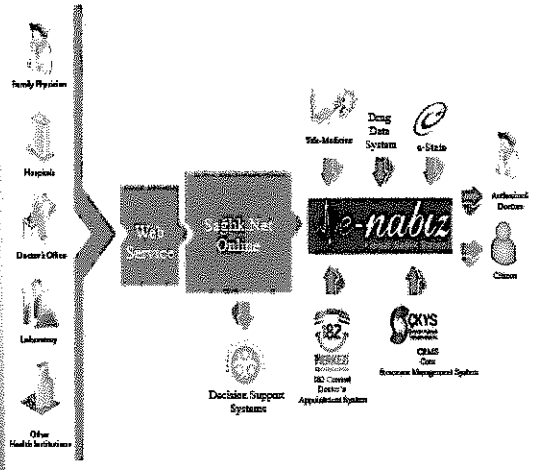


Figure 1. Health Information Data Structure (Resource: Sema Bağcı, "Kişisel Sağlık Kaydı Sistemi: e-nabiz: Kişisel Sağlık Sistemi". TC Sağlık Bakanlığı Sağlık Bilgi Sistemleri Genel Müdürlüğü. <http://slideplayer.biz.tr/slide/4870064/>, 02 May 2016).

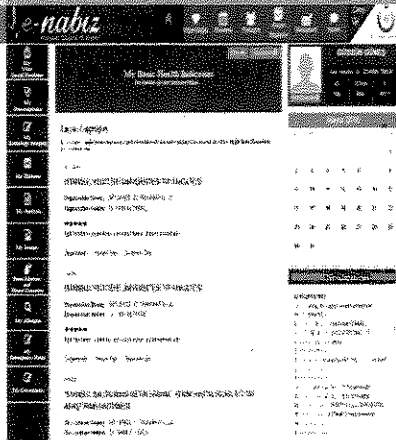


Figure 2. Web Features.

## Mobil Access and Wearable Technology

Users on iOS or Android operating systems can connect to the e-Pulse system on all their devices. By doing so, they will be able to learn the details of their examination at whichever hospital they go to, find prescription and medication information, obtain the reports of lab work and medical imaging at any facility, accessing all of this information together. Users may also integrate the step counter, pulse bracelets they use, their blood pressure devices and glucometers operating via Bluetooth into their e-Pulse profiles via all GSM operators, keeping all of their medical information saved at a single source. By logging into My Hospital Visits and selecting the appropriate health facility, they can click on "See Details" and view all the processes of their examination, prescriptions, reports, lab studies and diagnoses.

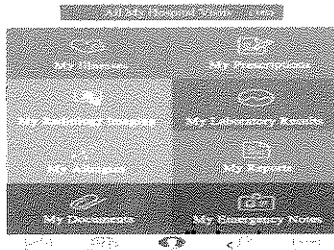


Figure 4. Mobile Interface.

## References

- (1) "Health Data Safety". Accessible at: <http://www.saglik.gov.tr/TR/dosya/1-103259/n/genelge20166.pdf>, [cited 27 April 2016].
- (2) "E-Pulse". Accessible at: <https://enabiz.gov.tr>, [cited 06 May 2016].
- (3) The Ministry of Health of Turkey, Accessible at: <http://www.saglik.gov.tr>, [cited 2 May 2016].
- (4) Sema Bağcı, "Kişisel Sağlık Kaydı Sistemi: e-nabiz: Kişisel Sağlık Sistemi". TC Sağlık Bakanlığı Sağlık Bilgi Sistemleri Genel Müdürlüğü. Accessible at: <http://slideplayer.biz.tr/slide/4870064/>, [cited 02 May 2016].
- (5) Individual Data Safety. Accessible at: <http://www.saglik.gov.tr/TR/dosya/1-103259/n/genelge20166.pdf>, [cited 27 April 2016].

## Legal Structure: Data Safety

This system offers data protection to individuals under the following laws :

- Law No.6669 dated Jan. 30, 2016 on "The Approval of Personal Protection Agreements regarding the Automatic Processing of Personal Data"
- Law No. 6705 dated April 20, 2016 on "The Approval of the Protocol on Supervisory Authorities and Cross-border Data Flow Supplementary to Personal Protection Agreements regarding the Automatic Processing of Personal Data."

The Ministry of Health issued an e-Pulse Circular 2016/6 on the "Law on the Protection of Personal Data. This law authorizes the Ministry of Health in the processes, protection and applications related to personal medical data (<http://www.saglik.gov.tr/TR/dosya/1-103259/n/genelge20166.pdf>, April 27, 2016).

## e-Pulse System of Features

The system provides individuals access to many data, including information on hospital visits, lab and imaging, repeat testing, appointment histories, reports and previous illnesses. Individuals may see the details of their hospital visits, share, evaluate or delete these if desired. Users may also, if they want, freeze their profiles temporarily or close their accounts altogether. Some examples of the services provided by the e-Pulse system are the following:

- \* Lab tests
- \* Imaging
- \* Signing up for appointments
- \* Prescription details
- \* Organ donations
- \* My Allergies
- \* My Reports
- \* 112 Emergency and First Aid

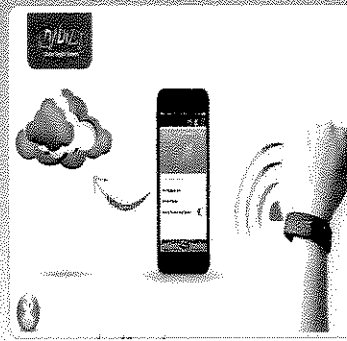


Figure 6. Wearable Technology Health Personal Tracking System (Resource: Sema Bağcı, "Kişisel Sağlık Kaydı Sistemi: e-nabiz: Kişisel Sağlık Sistemi". TC Sağlık Bakanlığı Sağlık Bilgi Sistemleri Genel Müdürlüğü. <http://slideplayer.biz.tr/slide/4870064/>, 02 May 2016).

## Conclusion

In terms of Turkey's development, e-Pulse is an innovative technology that offers our population of 75 million the opportunity of electronic access to personal health data. The intensive efforts in the first 5 months of 2016 to establish a legal framework for the system resulted in achieving the legal protection of personal data and the integration with all related systems. Providing accessibility, applicability and user-friendliness in visual resolution, the interface facilitates use in both internet and mobile environments. Although integration with wearable technology has not as yet been completed, efforts are underway to provide this facility as well.

## Acknowledgements

1. This study was supported by the Research Fund of Marmara University. BAPKO Project Number: S05-D-130416-0149.
2. This study was supported by the Research Fund of Istanbul University. Project Number: Proje ID:203993.

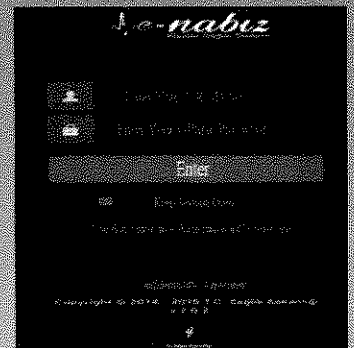


Figure 3. Mobile Access.

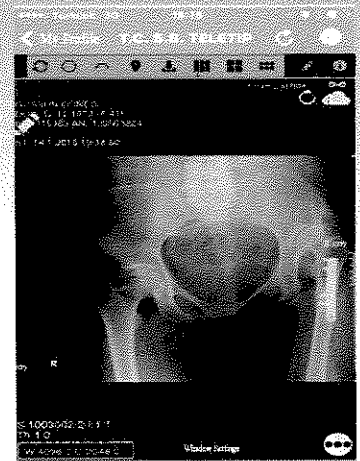


Figure 5. Radiological Image on Mobile Device.