



World Health Organization



Telemedicine & eHealth Directory

2005

Produced by

ITU
International Telecommunication Union
www.itu.int

WHO
World Health Organization
www.who.int

ISfTeH
International Society for Telemedicine & eHealth
www.isft.net

Med-e-Tel
The International Trade Event & Conference for eHealth, Telemedicine and
Health ICT
www.medetel.lu



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**Telemedicine & eHealth Directory 2005****Foreword by Hamadoun I. Touré**

In accordance with the decisions taken by three World Telecommunication Development Conferences (Buenos Aires, 1994, Valletta, 1998, and Istanbul, 2002) the Telecommunication Development Bureau of the International Telecommunication Union has undertaken various activities related to the study of the potential benefit of e-health and telemedicine solutions and services in the health care sector of developing countries as well as the demonstration of these applications by implementing pilot projects in different countries.

The preparation of this E-health¹ Directory is one example of our work together with many other partners and in particular the Luxembourg Trade Fair. E-health, including telemedicine, is without doubt an ICT application which will bring the benefits of health care and medical services to many developing countries. Many countries have already recognized it and we see a rapidly growing number of e-health/telemedicine projects and partners.

E-health may be seen as a valuable tool for providing much needed health care services to underserved rural areas. This is equally important for both, developed and developing countries. E-health also promises to enhance continued medical education of doctors, nurses and other health care professionals. This is a wide area of application extremely useful for all developing countries. The Directory will be available on the ITU website and will be regularly updated.

I hope that this Directory will provide you useful information on various e-health/telemedicine systems and solutions, and it is intended to help those undertaking projects in the emerging e-health/telemedicine needs of developing countries.

Hamadoun I. Touré
Director
Telecommunication Development Bureau
International Telecommunication Union

Geneva, March 2005

¹ This Directory was distributed under the title Telemedicine which is now officially referred to by ITU as e-health.



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Foreword by Michael Nerlich

As an international organization whose aim it is to facilitate the international dissemination of knowledge and experiences on telemedicine and ehealth and to provide access to recognized experts worldwide, the International Society for Telemedicine & eHealth (ISfTeH) is proud to be a partner in the production of the Telemedicine & eHealth Directory, together with the International Telecommunication Union, World Health Organization and Med-e-Tel.

It is ISfTeH's firm belief that this directory will provide support for several of the goals included in its mission statement.

The directory will undoubtedly contribute to the dissemination and exchange of knowledge, information and technologies relating to telematic applications and provide useful contact information to telemedicine users, scientists and researchers about sponsors, advisers, manufacturers, distributors and project coordinators.

We are very pleased also with the listing of several national telemedicine organizations, some of which are already ISfTeH members, and we look forward to support many more national and regional initiatives for the creation and development of associations promoting the cause of telemedicine and ehealth.

We hope this directory will indeed be a useful tool to all readers and look forward to developing this project further together with our partners and all listed companies and organizations. The Telemedicine & eHealth Directory is also available on the ISfT website at www.isft.net.

Michael Nerlich
President
International Society for Telemedicine & eHealth

Zürich, March 2005



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Foreword by Frank Lievens

Med-e-Tel, the international trade event and conference for ehealth, telemedicine and health ICT, is pleased and honoured to be a partner in the production of the Telemedicine & eHealth Directory. Being a project that was initiated by the International Telecommunication Union, the directory was to have a strong focus on supporting telemedicine applications in the developing world. However, we are convinced that this document will also become an important "who is who" for anyone around the world with an interest in telemedicine and ehealth.

Just like Med-e-Tel, the aim of this directory is to bring together users and suppliers of telemedicine and ehealth equipment and services and provide information about ongoing developments and projects, in order to enhance international contacts and cooperation.

We are committed to make the Telemedicine & eHealth Directory a great information resource for anyone involved in the use, research, development, manufacturing, distribution, installation, implementation, funding, promotion of telemedicine and ehealth related products, services, applications or projects.

Thank you to all contributors in this current issue. If you wish to receive more information about being listed, please feel free to contact info@medetel.lu. The Directory and regular updates will also be available at www.medetel.lu.

Frank Lievens
International Coordinator
Med-e-Tel

Luxembourg, March 2005



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Companies/Vendors

**Aerotel Medical Systems (1998) Ltd.**

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www.aerotel.com



Aerotel Medical Systems specializes in medical diagnostic devices for continuous long-term monitoring. Aerotel's trained staff of medical engineers has developed all inclusive, state-of-the-art signal processing systems, providing customers on five continents with a complete package, ranging from the hardware platform to the actual phone and web-based software (AEROTELnet.com). AEROTEL's highly compact trans-telephonic equipment assures optimal performance and maximum reliability. Thanks to superior technology and customer service, AEROTEL is regarded worldwide as the sound Telemedicine partner for outpatient clinics as well as for diagnostic and emergency service providers.

AEROTEL: The Company For Trans-Telephonic Diagnostic Equipment

In today's hi-tech world, an accurate daily diagnosis of the chronically ill can be accomplished long-distance through the use of cutting-edge technology.

AEROTEL: Allowing You To Be A Heartbeat Away

AEROTEL's "Heartline" trans-telephonic ECG Technology places cardiac patients a heartbeat away from effective and prompt medical intervention. A conceptual breakthrough, "Heartline" technology enables patients to conduct normal, peaceful lives because they know that an instant professional response to their changing cardiac condition is only a phone call away.... AND "Heartline" is also heartening news for physicians. Thanks to "Heartline", they can immediately consult with cardiologists about their patients' status. "Heartline" is used in over 32 monitoring services worldwide. Clinically tested, FDA and CE certified, "Heartline" equipment includes:

- Single-lead ECG, 4-event recorder/transmitter via cellular (GSM) and analogue telephone lines. (*HeartOne™*)
- Single-lead pre/post 1-4 events Loop Recorder/Transmitter (Heart 2005A)
- 8/12-lead ECG HeartView monitors for patient/physician use (HeartView P12/8) or for physician/nurse use (HeartView12L)
- PC-based Heartline Receiving Station (HRS) with database management software (Windows®)

AEROTEL: Monitoring Patient's Health

AEROTEL's state-of-the-art MPM™ (Medical Parameter Monitoring) monitors provide a complete health picture by enabling patients and physicians to conduct routine medical parameter monitoring from the comfort of their home or office. Using a simple, one-step procedure, the monitors automatically transmit data over telephone lines to the receiving station through an advanced, state-of-the-art communication unit. The MPM™ line includes:

- BP-Tel™ - Trans-telephonic Blood Pressure Measuring Device
- Weight-Tel™ - Trans-telephonic Weight Scale
- Tele-ClinQ™ - Multiple Data Access for Chronic Care & Disease Management for different parameters such as Blood Pressure, Weight, Glucose Meter, Blood Oxygen Saturation Level (SpO2) and Respiratory Flow Meter.



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AEROTELnet.com: The Leading E-Health Management Service

Physicians and patients can improve their healthcare management through Aerotel's leading web-based application - *AEROTELnet.com*. Designed as a complementary tool to Aerotel's monitoring systems, *AEROTELnet.com* guarantees physicians, patients and specialists secure access to medical databases via the Internet. A state-of-the-art solution for optimizing and managing clinical trials and diseases management programs, *AEROTELnet.com* enables healthcare providers to review relevant patient related information and to achieve a long lasting relationship with their patients.



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Fonomed, S.A. DE C.V.

Pasaje Stahl #156 A
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San Salvador
El Salvador



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www.fonomed.com

Fonomed offers prepaid, non subscription based, telephone consultations with licensed medical doctors.

Fonomed is the only entity in El Salvador that provides Telemedicine using POTS on a national scale. Our doctors are available 24/7/365, and they answer the telephone directly, without the intermediation of other types of medical personnel. The consultations are of the "anonymous-patient/identified-doctor" type, electronically stored, and so far the service has been exceedingly well received by the population at large.

Fonomed Customer Service operators have surveyed over 3,000 of our patients, which maintain a return rate of 82% and express a high level of satisfaction towards our telephone service, by rating us overall with a 9.7 out of 10 grade, obtained by averaging out questions such as, "Was your question answered to your satisfaction in a courteous and timely manner?", "Did you resolve your health issue?", "Did you receive and understand a clear course of action?", and others.

We have developed an extensive tropical set of medical protocols for telephone use based on the responses to thousands of calls, and we rely heavily on the quality of the doctors answering calls.

We also provide referral to a network of specialists, clinical laboratories, imaging services, from the public and private sectors.



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Honeywell HomMed

19275 W. Capitol Drive, Suite 200
Brookfield, Wisconsin 53045
USA



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www.hommed.com

HomMed[®] LLC is a state-of-the-art telehealth company based just outside of Milwaukee, Wisconsin.

HomMed is a leader in the rapidly-growing home patient telemonitoring industry. HomMed, LLC is currently working with over 160 partners nationwide, and also has operations in Canada. The HomMed Health Monitoring System has been used with more than 200,000 patients.

HomMed LLC is the provider of the HomMed[®] Health Monitoring System. Either the HomMed Sentry unit or the HomMed Genesis unit is placed in the user's home. (Both home units are FDA Class II medical devices.) The home unit collects complete patient vital sign measurements and subjective health-related question responses, and then automatically transmits the data via wireless technology or internal modem. Multiple simultaneous-use peripheral attachments are available for more comprehensive health monitoring needs. The data is transmitted to a Central Station for daily clinical review and assessment. Data tracking and trending allows for full care path review.



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iMed Norwegian Telemedicine AS

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Norway



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iMed is a company that is founded to help customers find their way in the jungle of technological, medical and organisational issues that emerges when eHealth is introduced in a health care organisation. Building on the experience gained through the last decade at the Norwegian Centre for Telemedicine, iMed puts together packages of technology and knowledge that will allow the customer to start using telemedicine with little time wasted on trials and errors. Our aim is to offer help at any stage in the process from idea to operational services.

iMed has a thorough knowledge of both the health care sector and the telemedicine and eHealth development in Europe and globally. From the start in 2002, iMed has established itself as a consultancy and integration company in the field of telemedicine and eHealth, in particular within maritime telemedicine.

iMed has together with Well Diagnostics and MedIT developed a rugged and compact solution for remote medical diagnostics. The **merMAid** solution is design for emergency use. Minimum training is required to record an ECG, measure the SpO₂ value and the temperature or to take pictures of the patient. The measured data is easily recorded and automatically sent to a predefined call center where medical experts give immediate feedback and guidance to handle the situation in an optimal way.

The ferry MS Jupiter from Fjord Line has used the **merMAid** since July 2003. They are very satisfied with the solution and have already used it in several emergency situations. By the end of 2003, they estimated that they had saved four evacuations. The nurse on boards says that the major benefit was the feeling of security for patients with chest pains.

The **merMAid** solution is based on market requests; i.e. MS Jupiter had in year 2002; 1500 minor and major cases of illness and personal injuries, resulting in three evacuations and three deaths. At least one of the evacuations could have been avoided if the ship had a 12 lead ECG and the possibility to consult medical experts. The survey of user needs for telemedicine at sea made by NST in 2002 was based on interview with different categories of ships and users. The survey concluded the main user needs to be: "A portable PC with the possibility to measure the biological signals ECG, SpO₂, Temperature and Blood pressure, combined with a digital camera and the possibility to have predefined call centers to use for interpretation and advise. The telemedicine system must be combined with simple user interface, professional training, and secure routines." All the main requirements are combined in the **merMAid** solution. The software is running on a rugged PC with touch screen, all integrated with the diagnostic equipment in a compact carry case.

Both ships with and without professional medical personnel on board will be potential users of the **merMAid** system. Non-professional medical personnel always will have necessary certification in basic medical treatment, emergency procedures, and first aid. Other areas like



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offshore, defense and governmental funded projects (UN, WHO) will also be potential users of the **merMAid** solution.

The medical call centers will be able to receive the data for medical diagnostics by installing the **merMAid** software on a PC with access to the Internet. All data transfer is encrypted, the diagnostic data can also be sent without identifying the patient's name.



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Luxexpo S.A.

10, circuit de la Foire Internationale
1347 Luxembourg-Kirchberg
Luxembourg

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www.medetel.lu

Management of the Luxexpo exhibition and conference center. Organizers of trade exhibitions, conferences and events.

Med-e-Tel: annual event (taking place in April) in the field of telemedicine, ehealth and health ICT. The event consists of a trade exhibition bringing together manufacturers/suppliers and buyers/users from around the world. The event is supported by numerous national and international organizations and institutions who are involved in the research, development, funding and promotion of telemedicine and ehealth.

A conference program, with sessions focusing on practical applications and current projects in the field of telemedicine and ehealth, is also an integral part of the event.

Several workshops and meetings are also organized in the margin of the event by some of the supporting organizations.



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Optifa

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Société de consultance secteur santé hôpitaux - industrie informatique santé - commission européenne - autorités publiques fédérales et régionales

Conseils et coaching individuels
Etudes stratégiques
Etudes opérationnelles
Etudes informatiques



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Philips Speech Recognition Systems

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Fax: +43 1 60101 4145

E-mail: info.speech@philips.com

www.philips.com/speechrecognition

Philips Speech Recognition Systems - Vienna, Austria

Philips Speech Recognition Systems develops and markets speech recognition technology for professional applications. Integrated into medical, legal and financial IT systems, its technology is used to increase efficiency in institutions with a large dictation volume. With thousands of installations worldwide, Philips Speech Recognition Systems has established itself at the forefront in providing efficient document creation and dictation transcription solutions.

SpeechMagic™ - The professional's choice!

With more than 7,000 installations in hospitals, medical practices and legal firms, SpeechMagic, Philips' speech recognition software, has established itself as the standard in digital dictation and speech recognition for professionals. SpeechMagic supports more than 23 recognition languages and offers unique features to improve efficiency in document creation and reduce organizational costs.



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Tadiran LifeCare

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Tadiran LifeCare is the **Telehealth Division** of **Tadiran Spectralink Ltd.** established in 2000.

Tadiran Spectralink Ltd. is a highly specialized supplier of advanced wireless communications solutions for critical missions in defence, aerospace, transportation and healthcare. Main product lines include advanced data link systems for unmanned airborne vehicles (UAV), space platforms and commercial applications (e-Health & e-Mobility).

Established in 1982 and incorporated in 1996, Tadiran Spectralink has annual sales of around \$66 million (2005 estimate) and a current backlog worth approximately \$70 million. The company has a workforce of 152 employees.

The company has won the **European IST Prize 2004** for its leadership and innovation and the **2003 Quality of Management Award** from the Israeli Government. The company is ISO-9001-2000 qualified.

Tadiran LifeCare is developing a family of cellular-based wrist-wearable monitoring devices, for transmitting real-time data, such as medical information, location or distress alarm. This new and unique product line includes:

MDKeeper™ – Real-time mobile wearable medical monitoring wristwatch, with embedded medical biosensors and cellular communications, for elderly, chronic patients and health-conscious people.

SKeeper™ – Wrist-wearable personal locator and cellular communicator with distress alarm, for children and elderly users.



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Associations Institutions



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Academic Computer Centre CYFRONET AGH

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www.cyfronet.krakow.pl

Academic Computer Centre CYFRONET AGH is a separate and organizational unit of the AGH University of Science and Technology in Cracow. CYFRONET is one of the biggest Polish supercomputer and networking centres, established over 30 years ago. CYFRONET is the leading unit in developing the Metropolitan Area Network (MAN) of the city of Cracow.

CYFRONET's mission is to:

- offer access to its computational facilities and network services to universities and research institutes;
- maintain and develop its computer and network infrastructure;
- perform tasks related to the national policy in evaluating, promoting and applying the new computer and network techniques;
- perform research activities in the area of high-performance computers, computer networks and telecommunication;
- perform consulting expertise, training and educational activities.

CYFRONET is involved in many national and international research projects. Following projects are currently realized: CrossGrid (CYFRONET is its coordinator), PELLUCID, GridStart, Pro-Access, 6WINIT (has been just terminated) - all within the EU 5FP and the EGEE project in the 6 FP, which will start on 1st of April, 2004.

CYFRONET was the driving force of the establishment of the Cracow Centre for Telemedicine and Preventive Medicine in frames of the project entitled: Advanced Medical and Telemedicine Services.



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Africa Telehealth Group

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www.africatelehealth.org

We offer access to medical specialist services, Continuing Medical Education opportunities for rural practitioners, Support for Clinical field evaluations, technical recommendations for medical and communications Solutions and interfacing between rural doctors and various countries' medical authorities. We have also partnered with the International Telecommunication Union to develop Telecentres for African Women in several Africa countries.

An exclusive on-line networking system that allows members to search and contact one another and post bulletins, access to medical libraries, discounted rates on technical services and equipment, on-line language training and more. As well as the highly successful Annual Africa Telehealth Conference, a well-attended international health care symposium.



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Asociatia Laser Medical & Telemedicina Moderna

Constantin Brancoveanu 34 C
500132 Brasov
Romania

Contact: Dr. Cristian Zaharia, M.D., Ph.D, president

Tel: +40 722 334 666

Fax: +40 268 513 226

E-mail: iczaharia@xnet.ro

Non-profit & non-governmental organization in domain of tele-education, eLearning, eHealth, open educational forums

Providing eHealth, Telemedicine, eLearning, seminars, training for doctors & health specialists.



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Association of Telehealth Service Providers (ATSP)

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Portland, OR 97225-2008
USA

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www.atsp.org

The Association of Telehealth Service Providers is an international membership-based organization dedicated to improving health care through growth of the telehealth, telemedicine, and e-health industries. It strengthens its members and the business of telehealth through advocacy, education awareness programs, and business support services.

ATSP offers:
Association Membership
Educational Conferences and Teleconferences
Research and Market Reports



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Bangladesh Telemedicine Association

Medinova, Room# 412, House# 71A, Road# 5A, Dhanmondi R/A
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Bangladesh

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E-mail: telemedicinebd@gmail.com

www.telemedicinebd.org

Bangladesh Telemedicine Association is the only telemedicine society of Bangladesh formed by the physicians, health care providers and IT personnel of the country, who are interested in Telemedicine.

Providing telemedicine services to the patients of Bangladesh from developed hospitals abroad through IP based videoconferencing and "store & forward" system at a low cost or even free.

Bears special Interests to train and educate physicians of Bangladesh about telemedicine and make telemedicine popular in Bangladesh.

Wants to undertake international collaboration programs to set up a telemedicine network in Bangladesh.



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Barnsley Hospital NHS Foundation Trust

Gawber Road
Barnsley S75 2EP
United Kingdom

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A 610 bed, three-star status foundation hospital, with an active research and development department. We have a long history of researching, developing, and evaluating assistive technologies working on local, National and European wide initiatives. We now have over 40 research active professionals with an external research and development income of £5.5m.

Barnsley Hospital is one of the country's top 50 hospitals delivering a range of high quality acute hospital services to a population of more than 220,000. It has Associate Teaching Hospital status from the University of Sheffield and a dynamic research and development department which concentrates its efforts in four main areas:

- Promoting Health and Modernising Services for Older People across the health and social care community (esp e-health and telecare);
- Promoting seamless services; evaluating pathways of care between and across service providers including primary, secondary and social interfaces;
- The pathogenesis and treatment of cardiovascular disorders in patients with and without diabetes mellitus;
- Optimising cancer care across networks and multiple service providers;

In addition, we provide an assistive technology service to older and disabled people throughout South Yorkshire (population approximately 750,000).



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Biomedical Engineering Institute of Kaunas University of Technology

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51356 Kaunas
Lithuania

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www.bmii.ktu.lt



Research and development institute at the university. Has the Telemedicine Support Centre (TSC) for technological support of national eHealth and telemedicine developments. Has been involved in FP5 project TelemediCare, international projects Litmed, Medweb, Pro-Access and national projects. Institute is supervising Biomedical Engineering Master study program with courses on Telemedicine and eHealth.

Research in the fields of:

- model based and adaptive signal and image processing;
- knowledge discovery and clinical decision support;
- optimization of systems with distributed intelligence
- modeling and simulation of diagnostic systems.

Design and prototyping of:

- telemedicine networks, consulting, installation;
- production of software for telemedicine applications, including videoconference and data channels, remote databases;
- web – based services for clinical decision support for ophthalmology, pathology, dermatology ;
- wireless modules and sensor systems for seamless patient monitoring (hardware, software, validation);
- software for PDA, bluetooth technologies with applications in ECG and other vital signs monitoring;
- wireless devices for human motion monitoring by the use of MEMS gyroscopes and accelerometers.



Telemedicine & eHealth Directory 2005

**Biomedical Engineering Program
Department of Electrical Engineering
Institut Teknologi Bandung**

Jalan Ganesha 10
Institut Teknologi Bandung
Bandung 40132
Indonesia

Contact: Prof. Dr. Soegijardjo Soegijoko

Tel: +62 22 2534117

Fax: +62 22 2534117

E-mail: biomed@ee.itb.ac.id

www.Biomed.ee.itb.ac.id

The Biomedical Engineering Program of ITB is an educational programme under the Department of Electrical Engineering of Institut Teknologi Bandung, Indonesia, offering undergraduate, masters and doctorate programs in Biomedical Engineering.

Educational Activities:

Undergraduate, Masters & Doctorate Programme on Biomedical Engineering

Research Activities:

- Telemedicine systems:
 - Community telemedicine systems
- Biomedical Instrumentation
- Medical Imaging
- Medical Informatics



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Biomedical Engineering Research Group
Department of Electrical Engineering
Institut Teknologi Bandung
Jalan Ganesha 10
Bandung 40132
Indonesia

Contact: Dr. Yoke Saadia Irawan, MT

Tel: +62 22 2534117

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www.biomed.ee.itb.ac.id

The Biomedical Engineering Research group of Institut Teknologi Bandung (ITB) is a non profit research group based on the Biomedical Engineering educational Programme at ITB.

Current Research Activities:

- Telemedicine systems, e.g.:
 - Maternal-Focused Internet-Based Community Telemedicine System in Indonesia: a community telemedicine system focused of maternal health that serves telecoordination, teleconsultation & tele-education in community health centres (Puskesmas), Referral hospital & health offices
- Biomedical Instrumentation prototypes:
 - PC-Based ECG
 - PC-Based Audiometer
- Biomedical sensors & Transducers
- Medical Imaging



World Health Organization



Telemedicine & eHealth Directory 2005

Brunel University

Department of Information Systems and Computing
Brunel University
Uxbridge , Middlesex UB8 3PH
United Kingdom

Contact: Dr. Malcolm Clarke

Tel: +44 1895 203220

Fax: +44 1895 251686

E-mail: Malcolm.Clarke@brunel.ac.uk

<http://disc.brunel.ac.uk>

Brunel University, situated in West London, has a wide range of internationally recognized research and undergraduate and postgraduate courses, including Masters and research programmes in telemedicine.

Brunel University offers a comprehensive range of services in research, consultancy and courses in telemedicine. The Telemedicine Group has expertise in clinical, organisation, engineering, and communications fields.



Telemedicine & eHealth Directory 2005

Caspian-Central Asia Foundation

PO Box 42018
St. Laurent Blvd.
Ottawa, Ontario K1K 4L8
Canada

Contact: Dr. Ali Artaman, President

Tel: +1 613 277 7801

Fax: +1 613 233 5532

E-mail: Median@usa.net

www.CaspianSea.org

Caspian-Central Asia Foundation is a non-governmental and non-profit organization, registered in Canada, with a mandate to promote health and development in Central Asia and the Caucasus. It is the first NGO in Canada focused on development issues in the former Asian Soviet republics.

Activities:

1. Organizing field study tours in Central Asia and the Caucasus for foreign organizations dealing with public health and/or clinical information management.
2. Developing a regional network of health professionals interested in health informatics.



Telemedicine & eHealth Directory 2005

Central Hospital, South Eastern Railway

Flat: 9, Block: 18/1
Hq Complex, South Eastern Railway
11 Garden Reach Road
Kolkata, West Bengal 700043
India

Contact: Dr.Santanu Sanyal

Tel: +91 33 24504370

Fax: +91 33 24503559

E-mail: sanishita@vsnl.net

Central Hospital, South Eastern Railway, Garden Reach, Kolkata is a premier 303 bedded multidisciplinary, multispeciality tertiary care centre established on 16th April 1963 on the bank of river Hooghly in a 'H' shaped vertical monobloc structure. This is not only the zonal referral hospital but also a referral centre for the Eastern, Metro, North-East Frontier and North Eastern Railways in certain specialities. Medical Director is the over all in-charge of this hospital ably assisted by committed team of doctors and paramedical staff.

Services:

Hospital Administration
Hospital Information Management System
Out Patient Department & Casualty
Department Of Cardiology
Department Of Medicine
Department Of Sugery
Department Of Orthopaedics
Department Of Otorhinolaryngology
Department Of Pathology & Blood Bank
Department Of Dentstry

**Telemedicine & eHealth Directory 2005****City University**

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London EC1V0HB
United Kingdom

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www.city.ac.uk

The City University has a long tradition of undertaking research and teaching in the area of ehealth. CHIC - City Health Informatics Centre (www.city.ac.uk/chic) and CeRC - City ehealth Research Centre (www.city.ac.uk/cerc) undertake research across the broad sweep of activities within ehealth and have wide national and international outreach, including long-established links to external organisations, NHS, health professional bodies in the UK and abroad.

Areas of activity include, research to support healthcare delivery and enhance health outcomes, supporting clinical decision making, telemedicine/care, modeling physiological, clinical and healthcare processes ranging from the individual patient to issues of health policy, the role of digital libraries in health care, agent technologies in healthcare, healthcare ontologies, usability and user evaluation studies in health information systems, human-computer interaction and acceptability, investigation into the patient knowledge and attitude change after using Internet health web sites. Also, we have a long standing interest in the broader policy issues around information science issues as well as health management and food policy.

Recent key ehealth projects include: National electronic Library of Infection (www.neli.org.uk), a Specialist Library of the National electronic Library for Health, the Antimicrobial Resistance Digital Library (www.antibioticresistance.org.uk), Evaluation of Evolving Remote Home-Based Patient Monitoring Delivery, Multi-Access Services for the Telematic Management of Diabetes Mellitus and others (www.city.ac.uk/chic/CHIC%20projects.html).



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Croatian Telemedicine Society, Croatian Medical Association

Šubićeva 9
Zagreb 10000
Croatia

Contact: Prof. Ivica Klapan MD, Ph.D. (president)

Tel: +385 1 4920 038

E-mail: telMED@mef.hr

<http://mef.hr/telmedzg04>

Planning and development of services: development of clinical/management tele-practice, organization of multidisciplinary teams, new projects/management in tele-health care, knowledge updating, interviewing, counseling.

Training and education: professional and scientific university courses and symposia/tele-courses, professional training, support in 'in-service' education/training, refreshment of knowledge and skills, guidelines/criteria for establishment/organization of management boards/consultation/tele-expert groups.

Basic telemedicine communication: consultation in all fields of clinical medicine, availability of 'unavailable' sites, bringing specialists to countryside settings, preoperative and intraoperative expertise

postoperative consultation

Define the status of TeleMED projects within the frame of the unique telemedicien system in the Republic of Croatia, which will be completely based on the existing HT infrastructure (ISDN, ATM, GSM and GPRS, Internet).

In the next phase, developmental TeleMED plan includes telemedicine consultations for all dislocated outpatient clinics and health centers in the Republic of Croatia. In this way, the global strategy of telemedicine connection of all medical points in the Croatian health care will be implemented

Define the future role, developmental plan, and potential tasks and duties of Croatian TelMED to the Regional Disaster Management Center, Stability Pact, (RDMC):

- RDMC requirements in TelMED Center activities in critical situations
- use of RDMC resources in *in continuo* TelMED activities



World Health Organization



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CRS4, Center for Advanced Studies, Research and Development in Sardinia

c/o Polaris
Loc. Pixina Manna, Edificio 1
9010 Pula (CA)
Italy

Tel: +39 070 92501
Fax: +39 070 9250216
E-mail: giach@crs4.it
www.crs4.it

CRS4 is an interdisciplinary research center developing innovative applications in the field of the information and communications technology.

In particular, the activities of the Biomedical Applications Group are related to image processing, 3D reconstruction, medical image storage and transmission, physical simulation of blood flow in arteries and more.



World Health Organization



Telemedicine & eHealth Directory 2005

Danish Society for Clinical Telemedicine

The Panum Institute, Blegdamsvej 3C
2200 Copenhagen
Denmark

Contact: Ole Winding, MD Sc.

Tel: +45 35327331

Fax: +45 35360116

E-mail: owi@plab.ku.dk

www.dskt.org

Danish Society for Clinical Telemedicine is a scientific medical society under the umbrella of the Danish Medical Society

The aim of the society is, based on science, to promote knowledge and understanding for the use of telemedicine and telemedical tools in clinical settings

**Telemedicine & eHealth Directory 2005****Department of Informatics and Telemedicine of Donetsk R&D Institute of Traumatology and Orthopedics**

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Donetsk 83048
Ukraine

Contact: Anton Vladzimirsky

Tel: +38 050 500 85 36

Fax: +38 062 335 14 61

E-mail: avv@telemed.org.ua / avv25@skif.net
www.telemed.org.ua

The first organization in Ukraine which will carry out scientific research in the field of telemedicine. Each year organizes about 100 teleconsultations. In 2000 created the "Telemedicine in Ukraine" website (www.telemed.org.ua). In 2003 founded the "Ukrainian Journal of Telemedicine and Medical Telematics".

Activities:

1. Teleconsultations (trauma, orthopedics, surgery, neurology, dermatology, narcology, etc.)
2. Distant education in trauma surgery and orthopedics
3. Teaching of telemedicine for Donetsk State Medical University
4. Publishing of "Ukrainian Journal of Telemedicine and Medical Telematics"
5. Scientific investigation in field of theoretical and practical telemedicine

Our main achievements:

- development of theoretical bases of telemedicine for Ukraine;
- Ukrainian-Russian telemedical glossary;
- development of indicies for teleconsultations;
- improvement teleconsultations in daily clinical practice;
- 250 teleconsultations, 15 medical specialities, partnership with MD's and patients from 32 countries;
- special partnership with Norwegian Telemedical Center, AFCEA (1999-2000), ISfT (2004), CAOS-India, Med-e-Tel, etc.;
- creation of Internet based system for distant education "TeleTrauma";
- scientific investigation and researches in theory of telemedicine, in using of teleconsultations in treatment of polytrauma, joints diseases etc, economical and mathematical problems of telemedicine, equipment testing, laws and ethics etc.
- dissertation "Treatment of polytrauma on pre-hospital and in-hospital stages with using of the telemedical systems";
- web-design and content-managing of www "Telemedicine in Ukraine" (www.telemed.org.ua);
- about 30 journal articles, 3 books ("Telemedicine: Glossary", 2001, "Telemedicine", 2002, "Clinical Teleconsultations: Manual for Doctors", 2003).

In 2004 was began creation of the telemedical network of Donetsk Region. We hope that this network should become the prototype for all country.

First in Ukraine Health Care Management of Donetsk Regional State Administration has program for local implementation of telemedicine. This program consists of 3 stages:

- creation of telemedical work stations and Internet channels, implementation of not-urgent teleconsultations, staff education;
- reforming of system of emergency medicine, implementation of urgent teleconsultations;



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- establishment of national and international telemedical links and partnership, implementation of distant education.

Main directions of development of Ukrainian telemedicine:

- creation of regionals and national programs of telemedicine improvement;
- using of teleconsultations in treatment of different serious pathology (polytrauma, heart diseases, oncology, tuberculosis, AIDS etc);
- implementation of distant education;
- staff education for telemedical work stations;
- improvement telemedicine in rural areas;
- scientific researches in clinical teleconsultations, special equipment, legal, ethical and deontological problems of telemedicine and health informatics, testing different equipment for telemedical work stations.

New project "TeleRehabilitation (Distant Education+TeleConsultation)" was began in 2004. This project provided by Donetsk R&D Institute of Traumatology and Orthopedics, Donbass Institute of Technics and Management and Donetsk State Medical University. Main goal: Distant education by social specialities+teleconsultations+telerehabilitation for young disability persons.



World Health Organization



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eHealth Services Pvt Ltd

C-93, Block-J, North Nazimabad
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Pakistan

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E-mail: citycard@super.net.pk / zakiuddinahmed@yahoo.com

www.ehealth-services.com

Running own Telemedicine and Videoconferencing projects and providers of consulting services for turn key solutions in Telemedicine.



Telemedicine & eHealth Directory 2005

EHTEL (European Health Telematics) Association

M.E.P.S.
50 Rue d'Arlon
1000 Brussels
Belgium

Contact: Marc Lange / Stephan Schug

Tel: +32 2 230 9650
Fax: +32 2 230 7773
E-mail: info@ehtel.org
www.ehtel.org

The European Health Telematics Association (“EHTEL”) provides to its members a platform for information, lobbying, representation, networking and co-operation in support of the implementation of information and communication technologies (ICT) in health and social care in Europe.

EHTEL believes that using ICTs in health and social care in Europe offers an unparalleled opportunity to revolutionize:

- The quality of health and social care services provided to patients and citizens;
- The speed and ease of access to those services;
- Their efficiency and cost effectiveness.

The Association brings together under one roof all of the constituencies with an interest in ICTs in health and social care:

- National and regional health authorities and systems
- Hospitals and other health institutions
- Public and private insurance providers
- Health professionals
- Health managers and executives
- Patients, citizens and consumers
- Industry
- Researchers and academics
- National and regional member-based organizations.



World Health Organization



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ENEA-UDA

Agency for Sustainable Growth
Via Don Fiammelli, 2
40129 Bologna
Italy

Contact: Milena Stefanova

Tel: +39 051 6098073

Fax: +39 051 6098084

E-mail: milena.stefanova@bologna.enea.it

<http://spring.bologna.enea.it/agenzia/index.asp>

ENEA is a big Italian National Multidisciplinary Research Organisation. The Agency for Sustainable Growth, ENEA-UDA, is developing and implementing a number of services aiming to support the national and European industry systems. In particular, ENEA-UDA is coordinating and participating in numerous European R&D projects.



World Health Organization



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EURAMI European Aeromedical Institute e.V.

Raiffeisenstr. 32
70794 Filderstadt
Germany

Contact: Dr. Michael Weinlich, President

Tel: +49 711 7007 2005
Fax: +49 711 7007 2006
E-mail: Info@eurami.org
www.eurami.org

The aim of EURAMI is the promotion and harmonization of air rescue everywhere in Europe. EURAMI is an association of air rescue personnel, an advisory board for the creation of air rescue services, and a center for the promotion of progress and new ideas in air rescue.

Worldwide telemedical consultations
Standardisation and accreditation of aeromedical activities



World Health Organization



Telemedicine & eHealth Directory 2005

European Society of Hypertension

S. Luca Hospital
University of Milano-Bicocca & Istituto Auxologico Italiano
Via Spagnoletto, 3
20149 Milan
Italy

Contact: Prof. Gianfranco Parati

Tel: +39 02 619112890 / +39 02 619112949

Fax: +39 02 619112956

E-mail: gianfranco.parati@unimib.it

Scientific Society gathering all top specialists active in the hypertension field

Basic and clinical research, education, health promotion

**Telemedicine & eHealth Directory 2005****Forschungsinstitut Technologie-Behindertenhilfe (FTB) der Evangelischen Stiftung Volmarstein**

Grundschoetteler Straße 40
58300 Wetter/Ruhr
Germany

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E-mail: sekr@ftb-volmarstein.de

www.ftb-net.de

Forschungsinstitut Technologie-Behindertenhilfe (FTB) is the general department for requirement analysis, research, development, evaluation, and exploitation of Assistive Technology (AT) of Evangelische Stiftung Volmarstein (ESV). ESV is a large orthopaedic rehabilitation centre with experience in rehabilitation and nursing for more than 100 years, which provides the necessary background for the analysis, test, and application of technical aids for the individual needs of people with disabilities and older people.

FTB is organised in three areas of responsibility, the information centre, the development centre and the test centre. The tasks of FTB comprise e.g. requirement analysis with direct involvement of the persons with handicap, older people and the rehabilitation personnel, functional test of available technical solutions, technology studies, realisation and management of German and European R&D projects, the investigation and implementation of universal design concepts in information technology, the built environment and transportation, advice of older people and people with disabilities concerning technical aids, new opportunities and accessibility, education and qualification of professionals, advisers and peer counsellors in the field of AT and the rehabilitation context. Further FTB cooperates with rehabilitation establishments, universities and industrial partners, e.g. in the field of health economy with the objective to strengthen this industrial sector.

FTB runs a demonstration and test laboratory including a smart house demonstration and a permanent exhibition of technical aids. It is member of the NRW project on advice for home adaptations with a local advice centre and acts as knowledge centre on technology for home adaptations. FTB supports the government of the federal state Nordrhein-Westfalen on related matters.



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Georgian Telemedicine Union (Association)

75 Kostava Str.
Tbilisi 0171
Georgia



Contact: Ekaterine Kldiashvili, Ph.D., Executive Director

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Fax: +995 32 44 55 42

E-mail: kldiashvili@georgia.telepathology.org / gtu@georgia.telepathology.org

<http://georgia.telepathology.org>

Georgian Telemedicine Union (GTU) is non profit organization founded on March 26th, 2004 in Georgia. The mission of GTU is to develop the area of telemedicine in the country of Georgia to provide our medical community and the general population with a rapid, reliable and cost-effective way of medical consultations and medical education.

The services of GTU can be summarized as:

1. Telemedicine services in health care:

We are committed to the improvement and quality control of medical diagnosis with the goal of providing better health care.

2. Telemedicine services in education:

We are committed to providing distant medical education to medical personnel, patients and the general population. This will contribute to the improvement of professional growth in our medical community by training and retraining medical personnel in accordance with the existing norms. This will also contribute to the improvement of basic medical education of patients and the general population by providing a prophylactic approach to diseases.



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Health Information Network Europe

c/o Deloitte Business Advisory
Berkenlaan 8B
1831 Diegem
Belgium

Deloitte.

HINE Health Information Network Europe

Contact: Véronique Lessens / Baudouin Lejeune

Tel: +32 2 800 28 28

Fax: +32 2 800 28 01

E-mail: mail@hineurope.com

www.hineurope.com

Deloitte has been active in the health sector for many years. In 1996, Deloitte underlined in its strategic plan the fact that Health Care matters should be a top priority.

The initial focus was on Hospital Financial Management, but many other services have since been developed. Strategic Management Consultancy, Operational Management and Information & Communication Management being the latest addition to this broad range of services.

Owing to its original ground experience, and also knowing that eHealth is going to be at the heart of development of integrated health networks and patient centred care - and that ICT will play a major role in these, the company now offers its knowledge and capabilities both within the sector and also to other industrial players including:

- healthcare providers (secondary, primary and tertiary care) and health networks;
- industry (ICT industry, life sciences industry);
- authorities and other organisations (european and national public authorities, public & private insurance, associations and special interest groups).

Since 2001, Deloitte has led the [Health Information Network Europe \(HINE\)](#), a healthcare IT market information service.

HINE, based in Brussels, Belgium, is funded by subscriptions and aims to be the definitive source for healthcare IT market information in Europe. HINE services are designed to facilitate meaningful comparison of trends in Europe with other global eHealth markets.

The HINE market information provides a great source of eminence and reference material that will both help you in understanding the developing eHealth market.

Current members include Microsoft, Philips, Siemens, Quovadx, SAP, Sun, HP, Sysmed, Nokia, iSoft/Torex, 3Com, Cegeka Healthcare, Agfa-Gevaert, Intersystems, Cerner, Cisco and McKesson.



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IDEWE-IBEVE vzw

Interleuvenlaan 58
3001 Leuven
Belgium



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E-mail: bart.viaene@idewe.be
www.idewe.be / www.ibeve.be



The IDEWE-IBEVE group is the largest external prevention and safety service in Belgium. Servicing ± 35.000 companies, our >500 mobile, multidisciplinary and multilingual experts can offer every kind of state-of-the-art on-site support regarding workplace health, safety and environmental surveillance.

The group IDEWE-IBEVE has played an active role in the genesis of the recent Belgian legislation regarding “Well-being at work” and the shift of traditional occupational health & safety prevention practices towards risk assessment, medical and environmental surveillance and psycho-social counseling, securing this revolution by the development of a modern, integrated software infrastructure to support its mobile prevention experts in a changing landscape.

The JaWS generator toolbox for auditing & reporting software applications is one of the key elements in this support infrastructure. It focuses on knowledge engineering: capturing and formalizing the wealth of expertise of a large multidisciplinary group of trained professionals, and applying it as building blocks in an auditing and reporting instrument suited to experts and novices alike.

The JaWS toolset is constructed to function as an automated refinery of expert knowledge, funneling user-applied enhancements to a reviewing committee and re-distributing useful improvements to all mobile prevention advisors.

By the end of 2005, the JaWS toolbox will comprise workplace auditing, vaccinations & tests monitoring, and medical surveillance, supported by a language-independent prevention ontology.

The IDEWE-IBEVE group is investigating the possibilities for expanding its services and ICT solutions on an international scale.



World Health Organization



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Innovation Studies Centre, Imperial College London

Tanaka Business School
South Kensington Campus
London SW7 2AZ
United Kingdom

Contact: Prof. James Barlow

Tel: +44 20 7594 5928

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E-mail: j.barlow@imperial.ac.uk

www.imperial.ac.uk/tanaka/innovation

University research centre

We have an extensive programme of research on the planning and implementation of mainstream telecare services.



Telemedicine & eHealth Directory 2005

INRIA

Domaine de Voluceau
Rocquencourt - B.P. 105
78153 Le Chesnay
France

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www.inria.fr

INRIA, the French National Institute for Research in Computer Science and Control, is dedicated to fundamental and applied research in information and communication science and technology (ICST).

INRIA is a research institute that is internationally renowned for the quality of its research scientists and scientific results, as well as for its involvement in technology transfer activities in all fields of computer science and applied mathematics. INRIA is one of the principal French assets in the international competition.

In its Strategic Plan 2003-2007, Life Sciences and Medicine are among its seven main priority challenges, including: Fully integrate IT into medical technology.

For several years, INRIA has been expending significant effort with its partners from the medical circles to understand in which way ICST can contribute to clinical medicine. Expected progress is considerable for continuous patient follow-up, analysis personalization, computer aided surgery, efficient medicine administration and prosthesis improvement.



Telemedicine & eHealth Directory 2005

Institute of Antimicrobial Chemotherapy

PO Box 5
Smolensk 214019
Russia

Contact: Dr. Irina V. Andreeva

Tel: +7 0812 611301

Fax: +7 0812 611294

E-mail: site_editor@antibiotic.ru

www.antibiotic.ru

The Institute of Antimicrobial Chemotherapy (IAC) is a non-profit organization with following main topics of investigations:

- Surveillance of antimicrobial resistance of the main nosocomial and community-acquired pathogens,
- Applied and fundamental studies on mechanisms of emerging antimicrobial resistance.
- Pharmacoepidemiological analysis in the field of optimization of antimicrobial usage.
- Educational activities.

The first Internet centre of distance education for physicians in Russia and CIS was founded in 2002 under the auspices of the Institute of Antimicrobial Chemotherapy with support of the United States Pharmacopeia (USP) and the United States Agency for International Development (USAID) on the basis of the web-site for medical professionals "Antibiotics and Antimicrobial Therapy" (www.antibiotic.ru).

Now there are two available courses of additional post-graduate education via Internet for physicians:

- **"Antimicrobial therapy in treatment of internal diseases"** (total duration of learning is 5 months, 3 levels ("Basics of clinical microbiology", "Antimicrobials" and "Choice of antimicrobials and clinical cases"), 29 specially developed topics, 247 clinical cases and 706 test questions).
- **"Antimicrobial therapy of socially most important diseases"** (total duration is 2 months, 14 topics on tuberculosis, HIV-infection, chronic viral hepatitis, sexually transmitted diseases with 72 clinical cases and 264 test questions).

After successful course completion and passing all final exams, health-care professionals are awarded by official certificates of Smolensk State Medical Academy.



Telemedicine & eHealth Directory 2005

Institute of Tropical Medicine, Antwerp

Nationalestraat 155
2000 Antwerp
Belgium

Contact: Dr Maria Zolfo

Tel: +32 3 247 63 64
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<http://telemedicine.itg.be>

Institute of Tropical Medicine, computer aided training project on HIV/AIDS.

Telemedicine is a way to deliver health care in remote areas. Facing the necessity to assist physicians in low resource settings, treating patients with antiretroviral therapy (ART), the Institute of Tropical Medicine, Antwerp (ITMA) set up a computer aided training programme for healthcare providers, working in these settings. Expert advice from HIV/AIDS specialists about ART and management of Opportunistic Infections (OIs) has been offered to colleagues working in different resource limited settings. The telemedicine advice has been organized initially through an e-mail network and later, in response to the need of continuous medical education on HIV and ART, through a discussion forum on a telemedicine web site (<http://telemedicine.itg.be>).

Clinical images and bibliographic material have been used to support questions and answers. Elaboration of cases, as case rounds, and answers, as frequently asked questions, have been available on line for continuous education, and for consultation through a search function. Also user-friendly guidelines, links, and policy documents with a particular target for low resource setting have been published on the website.

The speed at which clinicians and paramedics are going to be trained in the South will be determinant for the speed of the scaling up access to ART. Therefore, there is an urgent need to develop good quality training programs on ART and clinical management of HIV/AIDS patients in developing countries.



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ISfTeH - International Society for Telemedicine & eHealth

c/o ICT Regensburg
Franz-Josef-Strauss-Allee 11
93053 Regensburg
Germany

Contact: Dr. Alexander Leis

Tel: +49 941 944 6780

Fax: +49 941 944 6779

E-mail: contact@isft.net

www.isft.net / www.isft.org

The ISfTeH's goal is to promote the development of telemedicine, telecare and ehealth around the world. The Society acts as a forum for the exchange of information and ideas among all those interested in the telemedicine field. Further on, the society enables telemedicine professionals to access an international network of colleagues.

As an essential part of its activities, the Society seeks to work with existing national telemedicine societies, and encourage the formation of new national societies where they do not currently exist.

ISfTeH may in particular:

- support cooperation between non-governmental organizations on the one hand and governmental and non-governmental institutions on the other
- support national telemedicine organizations
- promote the cause of telemedicine within the World Health Organization and other international institutions or organizations
- contribute to the dissemination and exchange of knowledge, information and technologies relating to telematic applications
- promote initial and supplementary theoretical and practical training in the field of telemedicine, including its applications throughout the health sector regardless of professional or geographical limits
- support journalistic activities relating to telemedicine research and development and its application
- bring together telemedicine users, scientists and researchers and sponsors, advisers and manufacturers and distributors and their scientific personnel
- promote the formulation and publication of rules for good practice and also guidelines and information on how to act
- support activities relating to the establishment of appropriate legal outline conditions for telemedicine applications.

**Telemedicine & eHealth Directory 2005****ITACA – BET**

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46022 Valencia
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Fax: +34 96 387 72 79

E-mail: sguillen@itaca.upv.es

www.bet.upv.es / www.itaca.upv.es

The Institute of applications of advanced information and communication technologies (ITACA) is a non profit R&D organisation constituted in a association between Universidad Politécnica of Valencia, enterprises of the ICT, Industrial and Services sectors, and Public Administrations.

ITACA has a wide experience in European Project cooperation due to the work developed by its different divisions for many years. Its most outstanding experience is based on eHealth and ICT applied to Health and Social Services to improve citizen quality of live

The main activities done by ITACA related to health domain can be summarised as: Construction of a web-based, agent-mediated virtual marketplace to support citizens in putting into actions medical nutritional advice and in developing healthy eating practices, Tele-home care platform over high bandwidth networks, Teleassistance System for distributed campus wide environments, Personal Telemonitoring System device for biomedical signal capture, processing and transmission over wireless networks, ASP platform for teleconsultancy and telemonitoring over internet/intranet, wireless communication channel in order to communicate a patient with a health center anywhere and anytime with the possibility of transmitting any kind of multimedia data (video, audio, pictures, vital signs, etc.), Ambient Intelligent applications to help dependent people in their daily tasks, and other peripherals and tools, Knowledge management and data mining technology domains applied in the healthcare sector.

**Telemedicine & eHealth Directory 2005****Kaunas Medical University Hospital**

Eiveniu 2
3007 Kaunas
Lithuania

Contact: Rytis Jurkonis

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Fax: +370 37 326301
E-mail: rytis@takas.lt
www.kmu.lt/kmuk/about.htm

Hospital of Kaunas University of Medicine is the largest medical institution in Lithuania, providing specialized high quality services of medical care for people from Kaunas region and from all over Lithuania.

At the hospital are 32 specialized departments of profiles of conservative medicine, surgery and mother and child healthcare. Hospital is involved in studies process at Kaunas University of Medicine (www.kmu.lt/English.htm), which is biggest medical high school in Lithuania.

KMUH started telemedical and IT medical applications evaluation with pilot installation of learning platforms of telemedicine in 2000. Doctors of ophthalmology and otorinolaringology firstly evaluated pilot telemedicine systems, later specialties of pathology and dermatology started evaluation and application of IT solutions in medical practice. The main areas of pilot IT application at hospital are: teleconsultation and distance education, management systems, laboratory work administration software, electronic health record creation, development of specific image processing software. Hospital is active since 2000 in these Lithuanian – Swedish IT medical applications projects: Litmed, Baltic MedWeb, Litmed2 and Baltic MedWeb2.

The Telemedicine Center was founded by Kaunas University of Medicine in 2001 with the mission to initiate, form and introduce the politics of IT medical applications and telemedicine development in the university, hospital and in the country (<http://tmc.kmu.lt/>). From 2002 the first Lithuanian telemedical applications cluster structured together with Kaunas University of Technology was initiated.



Telemedicine & eHealth Directory 2005

Maccabi Health Services

27 Hamered St.
Tel-Aviv
Israel

Contact: Dalia Idar

Tel: +972 3 5143827

Fax: +972 3 5143871

E-mail: dalya@mac.org.il

www.macabi-health.org.il

Maccabi Health Services is a non profit organization of Israel's leading health funds providing comprehensive medical coverage to more than 1.6m members.

It has a high quality treatment and that's why it is the fastest growing health organization.

Maccabi's mission is to promote the total health of its members all over the country.

Maccabi has a few large scale telemedicine projects in subjects listed below:

Teleradiology – 22 radiology clinics all over the country sending images for diagnosis to two centers via connection lines get the diagnosis in 20-30 minutes.

Tele-holter – sending holter e/c/g tests via communication lines (wan) from branches throughout the country to 2 diagnostic centers.

Tele-e.c.g – e.c.g tests are sent for diagnosis the same way from a 100 different sites to a diagnosis center.

E-prescription – prescriptions are sent automatically from the physicians' office to any private pharmacy connected to Maccabi to which the patient comes.



Telemedicine & eHealth Directory 2005

MedCom - Danish Centre for Health Telematics

Rugaardsvej 15, 2.
5000 Odense C
Denmark

Contact: Lars Hulbaek

Tel: +45 66133066

Fax: +45 66135066

E-mail: LHF@health-telematics.dk

www.medcom.dk

MedCom is a non-profit, co-operative venture between authorities, organisations and private firms linked to the Danish healthcare sector. MedCom will contribute to the development, testing, dissemination and quality assurance of electronic communication and information in the healthcare sector with a view to supporting good patient progression.

National EDIFACT and XML standards for exchange of health information.

The focal areas for actual MedCom projects are:

- Internet-based infrastructure for EDI/XML, web lookup, telemedicine etc.
- Development and implementation of XML-communication to and from electronic patient records
- Continued dissemination and quality assurance of the existing EDI communication between General Practitioners and the other parts of the health sector



Telemedicine & eHealth Directory 2005

Medical Informatics and Technology Applications Consortium (MITAC)

Box 980480
1101 E Marshall Street, #8-015
Richmond, VA 23298
USA

Contact: Ronald C. Merrell, M.D.

Tel: +1 804 827 1020

Fax: +1 804 827 1029

E-mail: rcmerrel@mail2.vcu.edu

www.meditac.com

MITAC is a unique NASA Research Partnership Center (RPC), established to develop, evaluate, and promote information and medical technologies for space flight and ground applications. The basic premise of a RPC is to leverage technology through partnerships with industrial affiliates and other government agencies to benefit both human space flight and the commercial sector.

MITAC is a consortium comprised of partners from government, academic institutions and industry that have a commercial interest in products and technology related to telemedicine, medical informatics and medical technology.

MITAC explores technologies through partnerships with industry and academia through collaborative development and evaluation of Sensors, Transmitters, Effectors and Process Simulators (S.T.E.P.S.). These technologies and processes are evaluated in experimental testbeds, domestically and internationally. MITAC then shepherds the movement of these innovative products and processes from an option to commercial product.

MITAC serves as a pivotal center for technology development in the area of medicine for NASA's human space flight program as well as benefit academia and industry. The U.S. economy and health care industry can benefit from the MITAC's vision, mission, and goals.



Telemedicine & eHealth Directory 2005

Medical Research Council

Private Bag X385
Pretoria 0001
South Africa

Contact: Dr. Lynette Moretlo Molefi

Tel: +27 12 339 8521

Fax: +27 12 339 8593

E-mail: Moretlo.molefi@mrc.ac.za

www.mrc.ac.za

The Medical Research Council is a research organization, one of several science councils in South Africa. MRC was established according to Act 58 of 1991 of the Republic of South Africa.

The Medical Research Centre: Telemedicine Research Program coordinates the activities of the National Telemedicine Research Centre in cooperation with SA academic institutions, provincial and National Health Departments, as a centre of excellence in Telemedicine for the Southern Africa region.

The main objectives of the Centre are to:

- Organize appropriate telemedicine training for clinic nurses, community service doctors and others.
- To evaluate existing and planned telemedicine systems to ensure improved delivery.
- To set up pilot schemes to test and develop new telemedicine ideas and equipment for top clinical ability and cost-effectiveness.
- To coordinate public telemedicine activities.
- To plan extensions to the present health care telemedicine service.
- To record and collect telemedicine data from Public Health Service and making it available to researchers and others who are working to improve medical care in the nation and;
- To investigate new technologies and practices that can improve telemedicine services, such as modified cell phone usage and satellite messaging.
- To apply telemedicine principles to broaden health education activities for the general public and others.

MRC studies the extension of the nation's telemedicine activities to neighbouring and other African states, to aid provision of a more efficient health service for them and more effective availability of South African health facilities to other nations.

**Telemedicine & eHealth Directory 2005****MedSMART, Inc**

220 E. Huron Street
City Center Building, Suite 260
Ann Arbor, MI 48114
USA

Contact: Dr. Dag von Lubitz, Chairman and Chief Scientist

Tel: +1 734 527 71 20

Fax: +1 734 629 05 64

E-mail: dvlubitz@med-smart.org / info@med-smart.org

www.med-smart.org

MedSMART, Inc. is a non-profit company devoted to research in simulation-based medical education and training, and to the development of medical distance education that utilizes remote access to High Fidelity, Interactive Human Patient Simulation as its principal training medium. The Ann Arbor, MI, based company developed the Med-ASP concept (Medical Applied Simulation Provider.) Using ASP principles. MedSMART provides worldwide medical education and training services.

MedSMART provides services in medical simulation research, development, and education and training of medical personnel at all levels (from First Responders to physicians.) The company specializes in training at very large (transoceanic) distances and in "just-in time" operations that can be tailored to the specific needs of the customer. In emergencies, training based on remote access to High Fidelity Human patient simulation center in Ann Arbor, MI can be initiated within as little as 3 hrs following the request. In addition to its research and training services, MedSMART provides comprehensive technical and development consulting to customers building their own distance-based medical facilities and/or operations (telemedicine operations, distance-based or distributed medical simulation, distance healthcare education, etc.). MedSMART also offers consultation on the telecommunication issues related to telemedicine and all forms of distance education. MedSMART is the recipient of the prestigious Laval and City of Laval Prizes awarded to the company for the development of advanced technology-based solutions to global medical education and training, and for making technology available to those who cannot afford their own medical simulation centers.

**Telemedicine & eHealth Directory 2005****Norwegian Centre for Telemedicine (NST)**

University Hospital of North Norway HF
PO Box 35
9038 Tromsø
Norway

Contact: Steinar Pedersen, Head of NST
Tove Sørensen, WHO Coordinator
Tove Normann, Industrial Coordinator
Torill Berg, Conference Coordinator

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Fax: +47 77 75 40 98
E-mail: info@telemed.no
www.telemed.no

The Norwegian Centre for Telemedicine (NST) is a research and development centre that aims to gather, produce and provide knowledge about telemedicine and eHealth both nationally and internationally. The Centre opened officially in 1993. In 2002 the World Health Organization (WHO) designated NST as its first Collaborating Centre for Telemedicine.

NST is a multidisciplinary organisation with some 100 employees whose R&D and consultancy activities range from traditional telemedicine services between specialists and GP's to eHealth services for patients and citizens. Academics and PhD students in disciplines such as medicine, educational science, social sciences, economics, law and informatics are associated with the centre.

The WHO activities of the centre cover major aspects of telemedicine. The collaboration is based on the Terms of Reference which includes country work, research and dissemination, distance learning, advisory services and resource mobilization.

NST cooperates with trade and industry in the development of new telemedicine products and solutions.

One of NST's main events is the annual Tromsø Telemedicine and e-Health Conference (TTeC), which is an international meeting place for everybody who works with telemedicine and e-health.

NST supplies research and advisory services on telemedicine to a range of user groups who seek cooperation, knowledge and assistance. NST develops practical telemedicine solutions and provides applicable knowledge and expertise on telemedicine. NST assists the Norwegian Health Service in implementing large scale telemedicine services.

The primary aim of NST is to serve the Norwegian Health Service, but NST also provides services to public and private participants, both at home and abroad. As a non-commercial part of the Norwegian Health Service, NST emphasizes on democratic values such as equality, participation and care.

NST has experience in conducting feasibility studies and projects on setting up telemedicine services abroad in regions including Northwest Russia, Botswana, Kyrgyzstan, Georgia, Sri Lanka, South Africa, Afghanistan, Iran, Palestine, Cambodia and the Nordic countries.



World Health Organization



Telemedicine & eHealth Directory 2005

NST supports WHO's member-states in:

- country work
- research and dissemination
- global networks of distance learning
- health telematics knowledge base
- advisory role
- resource mobilization

**Telemedicine & eHealth Directory 2005****Office for Outer Space Affairs, United Nations**

VIC, Room: E-0970
PO Box 500
1400 Vienna
Austria

Contact: Alice Lee

Tel: +43 1 26060 5750
Fax: +43 1 26060 5830
E-mail: alice.lee@unvienna.org
www.oosa.unvienna.org

The United Nations Office for Outer Space Affairs (UNOOSA) is the United Nations office responsible for promoting international cooperation in the peaceful uses of outer space. The United Nations [Programme on Space Applications](#) (PSA) is implemented by UNOOSA and works to improve the use of space science and technology for the economic and social development of all nations, in particular developing countries.

Under the PSA, the Office conducts training courses, workshops, seminars and other activities on applications and capacity building in subjects such as tele-medicine, tele-education, remote sensing, communications, satellite meteorology, search and rescue, basic space science and satellite navigation. UNOOSA also maintains the Register of Objects Launched into Outer Space and disseminates information contained therein. OOSA prepares and distributes reports, studies and publications on various fields of space science and technology applications and international space law. The PSA, since its creation in 1971, has made substantial progress in furthering knowledge and experience of space applications around the world. Provision of country capacity-building, education, research and development support and technical advisory services by the Programme have all helped to reduce the gap between the industrialized and developing countries. Much more, however, remains to be accomplished.

The support of Member States and their participation in the Programme on Space Applications are vital. It is only through the commitment of all nations that the Programme can achieve its primary objective of putting space technology to work for sustainable economic and social development, not just in individual countries but on a global basis. PSA is aimed to enhance the understanding and subsequent use of space technology for peaceful purposes in general, and for national development, in particular, in response to expressed needs in different geographic regions of the world.



World Health Organization



Telemedicine & eHealth Directory 2005

Polish Telemedicine Society

Targowa 39A#5
03-728 Warszawa
Poland

Contact: Wojciech Glinkowski MD, PhD

Tel: +48 226181717

Fax: +48 226190013

E-mail: w.glinkowski@parser.com.pl

www.amwaw.edu.pl/pttm

Non-profit organization promoting telemedicine in Poland. Research, scientific supervision of telemedicine projects. International cooperation.



World Health Organization



Telemedicine & eHealth Directory 2005

Region Skane

Management of the Health and Medical Services Department
Dept of Health Informatics
291 89 Kristianstad
Sweden

Contact: Owe Svensson

Tel: +46 46 17 27 67 / +46 705 77 29 67 (mobile)

Fax: +46 46 17 23 20

E-mail: owe.svensson@skane.se

www.skane.se/templates/Page.aspx?id=67079

Region Skane is a politically governed organization with responsibility for health care, environment, regional development public transport etc. Department of Health Informatics deals with regional-embracing eHealth issues, among other things telemedicine.



Telemedicine & eHealth Directory 2005

Republican Clinical Children's Hospital

Department of Hospital Pediatrics
Crimean State Medical University named after S.I. Georgievsky
Titova Str. 77
Simferopol, Crimea 95004
Ukraine

Contact: Tatyana Vladimirovna Kobets

Tel: +380 652 25 34 26

Fax: +380 652 27 20 92

E-mail: tvk@ukrpost.ua

<http://drcobez.narod.ru>

Consultative activity and training programs demand great financial expenditures. It is TeleMEDICINE that can help raise a financial availability, to bring nearer to the inhabitants of the remote, difficult of access regions of the Crimea assistance of specialists of the highest class, to adjust a remote training aimed to raise the doctors' qualification in the regions. In this connection we have worked off the program "CC-Tele-healthcare" on the rendering consultative assistance of to the leading specialists RCCH to the regional hospitals namely: in Saky, Simferopol, in the settlement of Partenit, which would be based on making a common Telemedical information system.



Telemedicine & eHealth Directory 2005

Research Institute for Pediatrics and Children Surgery

Ul. Taldomskaya, d. 2
Moscow 125412
Russia

Contact: Prof. Boris A. Kobrinsky

Tel: +7 095 4837192

Fax: +7 095 4833335

E-mail: b-kobrin@pedklin.ru / nmatveev@pedklin.ru

www.pedklin.ru

A leading scientific institution in Russia in sphere of pediatrics and children surgery, with significant experience in medical informatics and telemedicine since 1998, including disaster telemedicine.

Telemedical services in most areas of pediatrics and children surgery (ISDN and IP videoconferences, store-and-forward consultations).

Courses of distant education in pediatrics and related subjects (in Russian, courses in English and German are available on request).

Scientific researches in spheres of medical informatics (development and support of the country level systems for public health surveillance, decision support systems, multimedia educational systems, etc.) and telemedicine (computer-aided systems for image quality enhancement, mobile telemedical systems, decision support systems in telemedicine, etc.).



World Health Organization



Telemedicine & eHealth Directory 2005

Riga City Council ITC Telemedicine and Videoconferencing Division

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1539 Riga
Latvia

Contact: Egils Stumbris

Tel: +371 7 105254

Fax: +371 7 105253

E-mail: egils.stumbris@rcc.lv

<http://itc.rcc.lv>

Riga City Council Information Technology Centre Telemedicine and Videoconferencing Division

Installation of computerised systems in Riga City hospitals.

Development of teleservice systems for diagnosis.

Development of telecommunication services among the hospitals and health centres.

Development of Telemedicine projects in Riga City.



World Health Organization



Telemedicine & eHealth Directory 2005

Russian Cardiology Research Center

3-rd Cherepkovskaya, 15a
Moscow 121552
Russia

Contact: Dr.Sergey Nakonechnikov MD PHD

Tel: +7 095 414 62 70

Fax: +7 095 414 62 14

E-mail: Snn_cardio@mail.ru

www.cardioweb.ru

The Russian Cardiology Research Center of Russian Federation Health Ministry was founded in December 17, 1975 by the Decree of the USSR Ministry Council. The Center includes A.L. Myasnikov Institute of Clinical Cardiology, Institute of Experimental Cardiology.

The Center is the major state cardiology institution in Russian Federation. Experimental and clinical research carried out in the Center is aimed at the development of new methods for prevention, diagnosis and therapy of cardiovascular diseases using recent discoveries in physics, chemistry, biology, genetics, immunology, biochemistry and electronics. The methods are based on the understanding of molecular and cellular mechanisms underlying the development of these diseases.



Telemedicine & eHealth Directory 2005

Russian Telemedicine Foundation

Lomonosovsky ave. 31, build. 5
Moscow 119192
Russia

Contact: Oleg I. Orlov

Tel: +7 095 932 99 07

Fax: +7 095 932 99 07

E-mail: fund@telemed.ru

www.telemed.ru

Telemedicine Foundation is a non-profit organization established in 1997 under initiative of seven Russian ministries and departments to coordinate activities on implementation of telemedicine services in Russian Federation.

Foundation mission is to provide population, irrespective of its location, with equal rights to have high quality health care by state of the art telemedicine technologies application which meets the world professional and ethical standards, creates a stable and reliable system of services as part of everyday life, provides steady benefits, investment incentives and strong medical personnel motivation.

Formation of state policy on telemedicine;

Establishment of the infrastructure for Russian telemedicine network;

Formation of teleconsultation services market;

Development and implementation of regional and local telemedicine projects in Russia;

Telemedicine training of physicians and medical students;

Provision of telemedicine services in leading Russian and foreign medical centers;

Introduction of mobile and home telemedicine solutions.



World Health Organization



Telemedicine & eHealth Directory 2005

Scientific Engineering and Marketing Research Center (SEMRC)

7a, J. Abidova
700084 Tashkent
Uzbekistan

Contact: Omonillo Rasulev

Tel: +998 71 1375200
Fax: +998 71 1375207
E-mail: ftmtm@uzpak.uz
www.ftmtm.uzpak.uz

Research in the field of communications and IT, including ehealth.



Telemedicine & eHealth Directory 2005

South London & Maudsley NHS Trust

Leegate House, 6th Floor, Room 605, Burnt Ash Road
London SE12 8RG
United Kingdom



Contact: Dr Murat Soncul, Telemedicine Co-ordinator

Tel: +44 20 8297 0707, ext. 234

Fax: +44 20 8852 3410

E-mail: Murat.Soncul@slam.nhs.uk

E-mail: TelepsychiatryResearchGroup@slam.nhs.uk

<http://blogs.slam.nhs.uk/telepsychiatry>

South London and Maudsley NHS Trust is a public mental health service provider to people from the boroughs of Croydon, Lambeth, Southwark and Lewisham. The Trust also provides substance misuse services in Bexley, Greenwich and Bromley in south London and specialist services to people from across the UK.

Currently these services are available under the Telepsychiatry Programme in SL&M:

- 1- Videoconferencing to Enhance the Care Programme Approach in an Adult Psychiatric Service: Videoconferencing is used for discharge planning linking the community mental health team to the acute psychiatric ward and primary care in order to enhance the CPA process.
- 2- Videoconferencing to enhance tertiary mental health service provision to the island of Jersey: This service is set up to increase access to tertiary mental health services normally not available on the island of Jersey, reduce user anxiety, improve the quality of tertiary services, determine the feasibility of clinical supervision between SLaM and the Health and Social Services Department (Jersey), and establish an advice, support and education function for mental health professionals in Jersey with colleagues in SLaM.
- 3- Corporate Videoconferencing Service: This service aims to improve communication between professionals based at core Trust sites and main hospital sites (from April 2005).



World Health Organization



Telemedicine & eHealth Directory 2005

State Information Technology Agency (SITA) (Pty) Ltd

PO Box 26100
Monument Park
Pretoria 0105
South Africa

Contact: Louis van Wyk

Tel: +27 12 482 2870

Fax: +27 12 482 2878

E-mail: Louis.vanwyk@sita.co.za

www.sita.co.za

SITA provides Information Technology (IT), information systems (IS) and related services in a maintained information systems security environment to, or on behalf of, participating Government departments and in regard to these services, act as an agent of the South African Government.

SITA provides a broad range of services in the ICT sector to the SA Government. Amongst these are consultation services and research projects in the Telemedicine sphere.

SITA is currently engaged with its partner, the Medical Research Council, in pilot projects to test Telemedicine systems for viable deployment in the remote rural areas of the Southern African region.

**Telemedicine & eHealth Directory 2005****Telemedicine Alliance – TMA-Bridge**

European Space Agency
ESTEC HME/GA
Keplerlaan 1
2200 AZ Noordwijk
The Netherlands

Contact: Cristina Bescos

Tel: +31 71 56 56416

Fax: +31 71 56 53661

E-mail: Cristina.Bescos@esa.int

www.esa.int/tma-bridge / www.esa.int/telemedicine-alliance

The TM-Alliance consortium was formed under the auspices of the Information Society Technologies (IST) Directorate of the European Commission (EC). It is a partnership between three organizations, ESA (European Space Agency), the WHO (World Health Organization, European Office for Integrated Health Care Services, Barcelona), and ITU (International Telecommunication Union, Telecommunication Development Bureau, Geneva). This partnership, coordinated by ESA, ESTEC, Human Space Flight, Microgravity and Exploration Directorate, is now in its second phase of work, known as **TMA Bridge**.

Results of the previous phase: creation of a vision

The first phase of this project saw the formulation of an overlying policy for the application of telemedicine in support of, primarily, the European citizen by the year 2010. The created TM Alliance's Vision is one of citizen-centred healthcare; the system should be built around the citizen rather than bending the citizen to fit into the system. In this vision, the citizen is the client who should be in a position to demand good services rather than the supplicant who is grateful for whatever services are thrown his way.

A Bridge towards realization of the Vision

The results of the first phase pointed to the critical importance of first establishing a solid basis of standards and interoperability, before progress and necessary investment can be made. The lack of agreement in the use of technical standards and medical coding systems was identified as being a major show-stopper for progress towards Telemedicine and eHealth implementation. The second phase of the TMA thus focuses on building the bridge between the Vision and its realization, and is aimed at promoting the creation of a European eHealth Area, favouring the mobility aspects in the European Union. To do so the project will tackle the barriers to the achievement of a real mobility space for EU citizens, and facilitate citizen-centred healthcare services. Emphasis is on all echelons of interoperability required for the cooperation of different health systems, such as technical, organizational, social and political.

**Telemedicine & eHealth Directory 2005****Telemedicine Association of Kosova / Telemedicine Centre of Kosova**

University Clinical Centre of Kosova
Emergency Medicine Building 5th Floor
Prishtina 38000
Kosova

Contact: Dr. Shaip Muja, Executive Director

Tel: +381 38 512 418 / 419 / 420

Fax: +381 512 419

E-mail: shmuja@ivhospital.org / info@ivhospital.org
www.ivhospital.org

On February 2, 2001 a Memorandum of Understanding (MOU) for the implementation of the Telemedicine Centre of Kosova (TCK) was signed in Prishtina between the Telemedicine Association of Kosova, the Department of Health and Social Welfare (DHSW), the World Health Organization (WHO), the 40th Medical Battalion of the Kosovo Protection Corps, the Director of University Clinical Centre, the Medical Association of Kosova, the Medical Faculty of the University of Prishtina, the Kosovo Foundation for Medical Development and the Department of Surgery of Virginia Commonwealth University, Richmond, Virginia, USA.

The overall project of telemedicine in Kosovo is planned to be implemented in three phases:

Phase I

The first Phase involved the establishment of the Telemedicine Centre in Prishtina at the University Clinical Centre as the portal for telecommunications and the centre for training of physicians, nurses, and other technical personnel.

Phase II

The second Phase of the project will include the further development of TCK on becoming an MoH affiliated institution with the technical staff and the technical logistics able to move forward to the integration of telemedicine services with the other regional hospital sites in Kosova. The second phase of the project of Telemedicine is planned to achieve the following:

- Establish fully operational TCK in UCC as a portal for the overall telemedicine project.
- Establish regional telemedicine centres (Gjilan, Ferizaj, Prizren, Gjakovë, Pejë, Mitrovicë), starting with the pilot project in Peja hospital.
- The regional centres will develop a plan and programme to ensure that the regional health houses and other medical practices will be able to be included in the telemedicine network. Their local and regional projects will ensure that proper education is provided for those centres and individuals and upgrade further human capacities to ensure proper leadership in preparation for the implementation of the third phase.

Phase III

In the third phase the health system of Kosovo will be fully integrated by information, instructional and consultative system, and supported by telecommunications. This phase will integrate HIS and the Telemedicine private network ensuring the electronic highway which will manage the flow of medical information by using the IT.

The TCK is established and it is fully operational in UCC as a portal for the overall telemedicine project.

Virtual private network is setup in close partnership with Post and Telecom of Kosovo using DSL technology covering all major cities of Kosovo.



World Health Organization



Telemedicine & eHealth Directory 2005

The virtual electronic Library is setup with access to more than 1600 medical journals. All education materials are available to every registered user in TCK or in the near future in every Regional Hospital of Kosovo.

Being a private and a "packet switched" network is very secure and ideal for transporting sensitive data from different parts of Kosovo. The Health information System (HIS) is the prime example of sensitive data project and it fits perfectly in the described network.

Training of TCK staff in different fields including the IT and telemedicine procedures/ videoconferencing.

Training on maintenance of the equipment presently at the Telemedicine Centre.

Pilot project with Peja Regional Hospital, applying telemedicine in order to improve referral system from the regional hospitals into University Clinical Centre (teleconsultations, training and education).

Establishment of International partnerships with EU and USA.

Participation on different international Telemedicine and E-health events.



Telemedicine & eHealth Directory 2005

Telemedicine Association Zagreb

Dobri Dol 47
Zagreb 10000
Croatia

Contact: Prof. Pero Raos, PhD, MEng, President

Tel: +385 1 2405 367

Fax: +385 1 2405 369

E-mail: praos@public.srce.hr

web.mef.hr/telmedzg04/

Non-profit organization aiming to promote, develop and improve telemedicine activities in Republic of Croatia.

Planning of the telemedicine activities;

Informing of public and members about telemedicine and the most recent achievements in this field;

International collaboration in the telemedicine;

Publishing of books and journals, organizing of congresses, symposia and other professional-scientific meetings in the field of telemedicine.



Telemedicine & eHealth Directory 2005

Telemedicine Center of Kaunas University of Medicine

Eiveniu 4
50009 Kaunas
Lithuania

Contact: Alvydas Paunksnis

Tel: +370 37 338049
Fax: +370 37 327059
E-mail: apaun@medi.lt
<http://tmc.kmu.lt/>

Telemedicine center (TMC) of Kaunas University of Medicine is a center for applying telemedicine technologies in medical practice, studies and science.

TMC is a functional compound, which unites the institutes, faculties of the university and university hospital subdivisions on voluntary basis and develops cooperation with other institutions working in the field of telemedicine.

The founder of the TMC is Kaunas University of Medicine, Lithuania.

The aim of Telemedicine Center is to initiate, form and introduce the politics of telemedicine development in the University and in the country and to prepare recommendations for health care institutions and government institutions.

Objectives:

- To provide methodical leadership for application of telemedicine technologies for medical diagnostics, consultation, monitoring and scientific investigations in all stages of the studies and postgraduate studies; and coordinate them;
- To provide the search for programs and financing sources which stimulates the development of telemedicine;
- To organize sessions and conferences on telemedicine;
- To organize and participate in national and international telemedicine projects.

Main tasks:

- Teleconsultations and second opinion
- Distance education
- Information exchange and creation of international databases
- Research



Telemedicine & eHealth Directory 2005

Telemedicine Group, Bulgarian Academy of Sciences

Institute of Psychology
Bulgarian Academy of Sciences
Acad. G. Bonchev Str., Bl. 6
1113 Sofia
Bulgaria

Contact: Malina Jordanova, MD, PhD

Tel: +359 2 979 70 80 / +359 2 979 32 02

Fax: +359 2 979 70 80

E-mail: mjordan@bas.bg

The Telemedicine Group is active in:

- design and development of portable appliances for space and aircraft medicine;
- space radiation risk analyses;
- tele-cardiology;
- telepsychology.

Currently these services are available under a project, co-funded by Bulgarian government and ITU.

The project focuses its efforts toward introducing telecardiology and telepsychology in rural and semi-mountainous region in Bulgaria. It has to (1) develop, test and evaluate the effectiveness of a local, packet-based wireless access infrastructure in rural area, connecting in a network 10 villages, and thus (2) to provide a platform for the wide introduction of multimedia services such as e-health, teleeducation, etc.

Through this project, the Telemedicine Group hopes to illuminate the potential for online clinical work, and to share its evolving understanding of what is truly possible, despite the prevalent myths that shape the thinking about online "therapy" and the nature of Internet-facilitated communication and behaviour.



Telemedicine & eHealth Directory 2005

Telemedicine Research Center

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The Telemedicine Research Center (TRC) is a non-profit public service research organization incorporated in March 1994. The mission of the TRC is to promote telemedicine research and to create, manage, and disseminate information about telemedicine related issues.

The TRC provides:

Telemedicine Information Exchange (TIE) <http://tie.telemed.org>:

A project funded by the National Library of Medicine, US National Institutes of Health, to provide comprehensive information about telemedicine on the web.

TRC 2004 Report on US Telemedicine Activity:

The report is based on an online survey of active telehealth networks, focusing on the clinical patient care sector of the industry. In addition to the 88 US-based networks, the report includes an overview of Non-US Activity, which details 54 networks based in other countries.

The TRC Online Bookstore <http://trc.telemed.org/store>:

Books, reports and conference proceedings on telemedicine and home telehealth are available for purchase through our online bookstore.



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TeleOrto Center of Excellence

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www.teleorto.pl

Scientific organization promoting telemedicine in Orthopedics and Traumatology of Locomotor System. Research, scientific supervision of telemedicine projects. International cooperation.



World Health Organization



Telemedicine & eHealth Directory 2005

TelePathology Consultants, P.C.
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TelePathology Consultants, P.C. is a professional medical corporation with the mission of promoting the use of telepathology as a clinical, research and educational tool in human pathology.

Telepathology allows consultations between pathologists and other physicians via the Internet and includes the study of images from gross surgical pathology specimens as well as histopathology and cytology specimens.

Our telepathology activities in the Web are for academic purposes only and not for profit. However, we offer conventional pathology services by direct referral of cases using overnight mail.



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The Swinfen Charitable Trust

Reg. Charity No. 1077879

The Lord Swinfen

Dene House, Dene Farm Lane, Wingham,

Canterbury, Kent CT3 1NU

United Kingdom

Tel: +44 1227 721024

E-mail: swinfencharitabletrust@btinternet.com

www.swinfencharitabletrust.com

Charitable Trust assisting "poor, sick and disabled people in the developing world. Establishes Telemedicine links between remote hospitals and expert medical consultants.

Supplies remote hospitals with donated equipment to enable them to contact expert medical advice. NB The hospitals should already have email accounts and suitable computer equipment.



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UK eHealth Association

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A not for profit national organisation representing stakeholders in the eHealth domain in the UK.

The Association's membership comprises large corporates and SMEs from the healthcare industry sector, Royal Colleges, academic institutions, NHS organisations, government departments and individual members.

The UKeHA's mission statement is 'Campaigning for the effective use of technology to improve health'. The Association has established Special Interest Groups to encourage networking and exchanges of ideas and experiences amongst members. The Groups represent Technical, Legal and Ethical Issues, SMEs, and eHealth in Chronic Illness interests.

The Association acts as an interface with national bodies, and others who seek an independent view of issues in eHealth.



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Research & Education



Telemedicine & eHealth Directory 2005

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Our Medical-Informatics department deals with systematic processing of data, information and knowledge in the fields of medicine and health-care. Using interdisciplinary methods from information technology, mathematics, biometry and linguistics, principles and processes as well as the structure and operation of new information systems are developed.

The research field of our Medical-Informatics department is especially focused on the development of methods and tools in the following areas:

- Diagnostics (the virtual patient) and therapy (minimal invasive surgery methods)
- Simulation of surgical procedures
- Early diagnosis and prevention of diseases, alleviation of physical disabilities
- Health advisory service and –reporting systems
- Management and operating of information systems in health-care
- Medical documentation and knowledge-based decision support systems

Currently we are carrying out two research projects:

- **BurnCase 3D**: Improving diagnostics and therapy analyses in burn treatment by using 3D body models
- **SEE-KID**: Implementation of a biomechanical, interactive 3D simulation of the human eye, its orbita and its muscles, to simulate common surgical eye muscle operations.



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Media Publications Reports



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ArabMedicare.com

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Established in 1999, ArabMedicare.com is a regional web portal aimed at healthcare professionals from government, business, and academia with over 1.8 million visitors per year from over 120 countries.

Providing Market Intelligence Services (Arab healthcare market), Accredited Online Continuing Medical Education Courses, Medical News Syndication Services, Consultancy on Arab Healthcare market.



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Campden Publishing specialise in providing essential information for the healthcare market via the combined media of print, electronic publications, conferences and exhibitions.

Our mission is to provide relevant, timely and expert information of practical business use to its target audiences. To this end the company works closely with business leaders, policy makers, professional associations and technical specialists.

Hospital Healthcare Europe

Produced in association with HOPE, Hospital Healthcare Europe is the essential resource for European hospital healthcare professionals with over 130 informed articles and case studies, individual sections on facilities management, IT and communications, laboratories, radiology and imaging, theatre and surgery, clinical care, nursing and patient care, pharmacy and therapeutics.

MedTech Business Review

MedTech Business Review (MTBR) is the major information resource for everyone concerned with the medical technology industry in Europe and around the world. MedTech Business Review focuses on all aspects of innovative medical device/technology financing, manufacture, marketing and usage in all healthcare sectors, with a comprehensive mix of expert overviews and in-depth analyses of emerging technologies, market conditions and opportunities.

Private Hospital Healthcare Europe

The essential new reference resource for the private hospital sector with comparative statistics analysing the private hospital sector and important information on EU health policy initiatives. Includes over 100 articles analysing important clinical and business trends for the future of private hospital healthcare.

**Telemedicine & eHealth Directory 2005****Civic Research Institute, Inc.**

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Civic Research Institute (CRI) is an independent publisher of reference and practice materials for professionals in health, social services, behavioral health, and law. CRI's publications provide practical guidance, best practices and cutting-edge thinking, reporting, analysis and commentary, in all formats, including newsletters and journals, supplemented books and monographs, and loose-leaf services. Editors, authors and contributors are leading authorities and practitioners in their fields.

Telehealth Practice Report

Editor: Nancy A. Brown, MLS, Telemedicine Research Center
Founding Editor: Stephen Schanz, JD, LLM
Legal Editor: Barry B. Cepelewicz, MD, JD Publication Details

Telehealth Practice Report is your guide to taking full advantage of telemedicine's promise — to increase your service delivery range and improve your bottom line. Written by telehealth professionals for telehealth professionals, TPR is the only resource devoted exclusively to helping you design, manage, and upgrade a telemedicine program.

Format: Newsletter
Frequency: 6x annually
ISSN 1532-9232
Subscription: US \$182.95
Product Code: TPR

2004 TRC Report on US Telemedicine Activity

With An Overview of Non-US Activity

Designed, Compiled and Edited by The Telemedicine Research Center, <http://trc.telemed.org>

The 2004 TRC Report on US Telemedicine Activity is a new edition in the Telemedicine Research Center's ongoing series of industry surveys; the 1997, 1998, and 2000 editions were published in collaboration with the Association of Telemedicine Service Providers (ATSP). The TRC Report on US Telemedicine Activity will be updated annually. Compiled and analyzed by America's only research center devoted exclusively to telemedicine, the brand new 2004 TRC Report on US Telemedicine Activity is your guide to the current state of telemedicine programs, applications, demographics, technology, and economics in the U.S. and around the world.

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Editer Instrumental Medico Guia/Guide

(medical equipment guide)

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(on-line medical equipment guide)



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Federal Telemedicine News

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Bloch Consulting Group is a publishing company reporting on government and legislative information in Washington D.C.

Produces Federal Telemedicine News with information on U.S. government and legislative information from Capitol Hill. In addition, reports are produced yearly with data on the U.S. federal sector plus information on universities



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GIT VERLAG, a WILEY company, is a publisher based in Germany focusing on publications for the healthcare, laboratory, chemical sector, and biotech/pharmaceutical markets.

GIT VERLAG offers publications for decision makers in healthcare: **Hospital Post** is a bi-monthly in English (circulation 25,000), **Management & Krankenhaus** a monthly in German (43,000). Request your free sample at m.reiter@gitverlag.com.

**Telemedicine & eHealth Directory 2005****HBS Consulting**

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HBS Consulting is an international consulting firm, which aims to maximise return on investment on strategic business development and marketing expenditure. Our working partnership is with in-house Corporate Strategy, Business Development and Marketing and teams within the medical devices/equipment, healthcare ICT, diagnostics and pharmaceutical industries. HBS Consulting offers you extensive strategic and marketing support in every area, from innovative strategies for market entry, carefully considered market analysis and excellent customer intelligence to advice on leveraging strategic partnerships and due-diligence support. HBS Consulting's IMIS operating group represents a global team of analysts and consultants that work specifically within the Medical Imaging, Patient Monitoring and Healthcare Information Systems sectors. Our consulting services include: Market Entry Strategy, Strategic Market Analysis and Valuation, Product Development, Scenario Development, Investment appraisal and product valuation, Mergers and Acquisitions, JV's, Licensing, Due Diligence Support, Leveraging strategic partnerships and alliances, Customer Relationships

HBS Strategic reviews

HBS Strategy Reviews address the dynamic drivers in the healthcare industry today and tomorrow. They present an invaluable source of information and commentary on the latest technological and policy trends across Europe and the United States, aiding the Business Developer to identify and take advantage of existing and new opportunities. Researched and written by experts from the HBS Consulting team, these strategy papers are tightly focused on the future and will help underpin your business vision.

Telehealth - A Keystone for Future Healthcare Delivery - In this strategic publication HBS presents a number of strategies for success that may be used by market participants and companies that are interested in benefiting from the growing use of Telehealth.

Smart Cards in Healthcare application - This study provides guidelines, recommendations and strategies for companies that are interested in exploiting the emerging opportunities for smart cards in the healthcare sector and healthcare organisations that are looking to utilise this technology.

Global healthcare IT trends and corporate activity - This report will provide a succinct review of the development and adoption of specific healthcare IT solutions in the major regional world markets, a review of government initiatives and an in-depth assessment of the roles being played by companies focused directly on this market.



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Established in 1995, we've become leaders in home telehealthcare research and program planning. Our team works with national experts in legal, technical, and medical areas to produce state-of-the-art manuals and reports for home telehealth program planners and service providers.

Home telehealthcare research, writing, and program planning are our specialties, since 1995. Manuals and guidelines for setting up home telehealth programs focus on getting telehealth to work well with elderly patients living with chronic diseases. Telehospice, or hospice care provided in part through telecommunications, is our most recent focus. See our web page for details on our 3 most current titles on home telehealth and telehospice: www.InformationForTomorrow.com/newbooks.htm.



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Published by Reed Business Information, International Hospital Equipment & Solutions reports on the medical technology news and solutions for the modern hospital. Targeting senior physicians and medical department heads, hospital management, IT specialists and biomedical engineers in Europe, Middle East, Asia-Pacific and Latin America, IHE offers a 97% personally requested, BPA audited circulation of over 27,000.



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IOS Press is a rapidly expanding Scientific, Technical, Medical, and Professional publishing house focusing on a broad range of subject areas. IOS Press was established in 1987 in Amsterdam, The Netherlands.

IOS publishes the book series 'Studies in Health Technology and Informatics'. This book series was started in 1990 to promote research conducted under the auspices of the EC programmes' Advanced Informatics in Medicine (AIM) and Biomedical and Health Research (BHR) bioengineering branch. A driving aspect of international health informatics is that telecommunication technology, rehabilitative technology, intelligent home technology and many other components are moving together and form one integrated world of information and communication media. The complete series has been accepted in Medline. In the future, the SHTI series will be available online. Next to the book series, IOS published two related journal titles, 'Technology and Health Care' and 'Technology and Disability'.



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IST Results

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www.cordis.lu/ist/results

IST Results is an online editorial service reporting on research results and ongoing activities of projects funded under the European Commission's IST programme. The service covers a wide range of Information and Communication Technologies, including e-health, telemedicine as well as other medical ICT applications and innovations. The service is free of charge.

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RSM Press is the publishing arm of the Royal Society of Medicine, a long-established postgraduate medical society with a multi-disciplinary and multi-professional membership. RSM Press publishes books and journals for the medical professional and professionals working in related fields.

He@lth Information on the Internet

This bimonthly newsletter meeting the continuing demand from health professionals and others for information about health resources available on the internet. He@lth Information on the Internet contains a range of contributed articles and regular features.

This accessible and topical newsletter appeals to all health care professionals, including general practitioners, hospital doctors, nurses, allied health practitioners, health services researchers and managers, and to library and information professionals.

Direct URL: www.rsmjournals.co.uk/hii.htm

Journal of Telemedicine and Telecare

Widely regarded as the leading journal in the field. Due to the continuing success of the journal, from 2005, we will publish 8 issues per year instead of 6, adding a new, US based co-editor, Liz Krupinski of Tucson University, and adding in several new content sections. To browse the Journal of Telemedicine and Telecare table of contents back to 1996 or to download a free sample issue, go to www.rsmjournals.co.uk/jtt.htm.



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Telemedicine and E-health Information Service - TEIS

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TEIS is a database of activities, companies and other information about the use of information and communication technologies (ICT) to deliver health care to patients at a distance. Through it, clinicians and administrators who are thinking of setting up their own telemedicine or e-health project can find out about other practitioners who may have already done similar things.

TEIS gives access to information about all aspects of telemedicine including:

- telemedicine activities, both pilot/developmental projects and permanent delivery of healthcare services
- organisations involved in telemedicine whether as hosts for projects, information facilities, publishers or suppliers of equipment
- people involved in telemedicine as contacts for organisations and projects
- publications about telemedicine including articles, chapters, books, reports, surveys, theses and videos
- equipment currently available for telemedicine

The database now holds over 2000 entries, and is fully searchable. The service is provided by the Healthcare Computing Group at the University of Portsmouth.



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Telemedicine Information Exchange

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The Telemedicine Research Center (TRC) is a non-profit research organization founded in 1994. It's main service/product is the Telemedicine Information Exchange (TIE), a Web-based resource for information on telemedicine and telehealth.

The Telemedicine Information Exchange (TIE) is funded by the National Library of Medicine. It is a comprehensive resource for information on telemedicine and telehealth, including a bibliographic database of over 14,500 citations, a database of active telemedicine programs worldwide, a bi-monthly What's New column, information on telemedicine vendors, legislative issues, and much more. The TRC offers full text of over 4,000 articles on the TIE's Bibliographic database through its fee-based document delivery system. The TRC staff also offer research services for specific questions on telemedicine and telehealth, and development of Web-based administrative tools. In partnership with various organizations in the UK, the TIE also sponsors TIE Europe at <http://www.tieurope.org>, which is modeled on the TIE but provides UK/Europe-focused information on telemedicine/telehealth.



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Telemedicine Information Exchange (TIE) Europe

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The Telemedicine Information Exchange (TIE) Europe is a comprehensive web-based resource for telemedicine and e-health activities both in the UK and Europe. TIE Europe is a non-profit organization.

The Telemedicine Information Exchange (Europe) was developed to meet the needs of healthcare providers aiming to modernise healthcare delivery using technology. An inclusive, easily accessible source of quality information relating to all aspects of telemedicine & e-health was viewed as essential. TIE Europe provides this essential service and is based on TIE US, with their ongoing support and collaboration.

TIE Europe focuses in developing and publishing *Toolkits* or 'How to do it guides' on specific clinical specialties, aimed at addressing the multi-professional approach necessary for successful telemedicine and e-health implementation.



Telemedicine & eHealth Directory 2005

Touch Briefings

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Touch Briefings offers a comprehensive range of industry and market-specific products delivered through print and online media, designed to act as a platform to bring buyers and sellers together.

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Ukrainian Journal of Telemedicine and Medical Telematics

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Headings of the Journal: Word of edition, Problem articles, Original articles, Preliminary report, Lectures, Case study, Reviews and Discussions, Memorials, History, Information about conferences

Main subjects of the journal:

- Telemedicine (teleconsultation, distant education, bio-telemetry, monitoring, technical and clinical aspects, economic and engineering solutions, legal, ethical and deontological problems, standardization, etc.);
- Medical telematics (processing, standardization, exchange of the medical information, construction and usage of information systems, telecommunications, computer networks in public health services and medical education, etc.);
- Medical and clinical computer science (construction of hospital information systems, medical expert and artificial intelligent systems, software for public health services, problem of standardization and certification, legal questions, etc.);
- Information technologies in medical researches and education, statistical researches and simulation in medicine;
- Medical cybernetics;
- Medical equipment.

The first issue of "Ukrainian Journal of Telemedicine and Medical Telematics" was published in 2003 (under the aegis of the Ukrainian Ministry of Health and the R&D Institute of Traumatology and Orthopedy of the Donetsk State Medical University).

The establishment of the "Ukrainian Journal of Telemedicine and Medical Telematics" aims at exchanging unique experience, combining efforts of scientists and medical practitioners from Ukraine and other countries for more efficient use of information and telecommunication techniques, for development of new methods of diagnosis, medical treatment and preventive maintenance, as well as for improving teaching at medical educational institutions. We consider involving experts of adjacent medical branches into complex study of the contemporary telemedicine and telematics problems to be the task of primary importance. It is for this reason, that not only doctors, heads of telemedical centres and laboratories, health



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service organizers and scientific researchers are engaged in the work of our editorial board, but also experts in engineering, mathematics, physics and cybernetics.

The major subjects of the journal are devoted to the two modern branches of public health services – telemedicine and medical telematics.

On pages of our journal you will find problematic articles, unique research developments, articles for medical practitioners, preliminary reports, lectures, reviews and various materials for discussion. The journal will enable readers to get familiar with the full-text version through the global Internet network.

We hope that in the articles by our authors you will not only find interesting scientific and practical materials, but will also feel their humanism and aspiration to bring the new information to the broad sections of the medical public, as well as attention to fundamental and practical problems of telemedicine and medical telematics.



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Virtual Medical Worlds Magazine - VMW

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Virtual Medical Worlds Magazine is a monthly Internet-based magazine for telemedicine, medically-related high-performance and Grid computing, information technology and virtual reality for medical applications, e-health care, 3G medicine, health care compunetics and underlying technologies.

Virtual Medical Worlds Magazine offers worldwide information on telemedicine projects and initiatives, set up in academic, industrial, medical and high-performance and Grid computing environments.

The magazine has been conceived as a professional and well structured news site, aiming at a varied readership of workers in the telemedicine field, project partners, academic and medical staff, Grid and HPCN information specialised people and the medical and computer industry.

The magazine is equally available in html-version through e-mail. You can subscribe free of charge by sending your references and e-mail address to vmw@hoise.com.

VMW is able to serve as the ideal promotion vehicle to your telemedicine, telehealth and e-health care activities by offering a large number of practical services for companies and organisations at www.hoise.com/vmw/monthly/dealvmw.html.



World Health Organization



Telemedicine & eHealth Directory 2005

Projects



Telemedicine & eHealth Directory 2005

ALLADIN

c/o Multitel asbl
Parc Initialis
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7000 Mons
Belgium

Tel: +32 65 37 47 22
Fax: +32 65 37 47 98
E-mail: info@alladin-ehealth.org
www.alladin-ehealth.org

ALLADIN focuses on the development of a user-friendly natural language-based decision support software for neuro-rehabilitation, mainly in stroke. Once implemented, it will provide an adequate and fast solution for a client centred practice, for discharge planning and for the use of rehabilitation resources.

Treatment techniques in neurological rehabilitation diverge in EU countries. ALLADIN will provide a report in an easily interpretable universal language. This project will then lead to a brand new method for decision support and risk management in neuro-rehabilitation.



Telemedicine & eHealth Directory 2005

ARTEMIS

c/o Middle East Technical University
Software R&D Center
Campus, Inonu Bulvari
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Turkey

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www.srcd.metu.edu.tr/webpage/projects/artemis

Most of the health information systems today are proprietary and often only serve one specific department within a healthcare institute. To complicate matters, a patient's health information may be spread out over a number of different institutes which do not interoperate. This makes it very difficult for clinicians to capture a complete clinical history of a patient.

The objective of the ARTEMIS project is to develop a semantic Web services based interoperability framework for the health care domain that provides:

- interoperability of medical information systems through semantically enriched Web Services;
- interoperability of Electronic Health Records through Web Services;
- an integration environment for disparate applications both within health care domain and with the organizations they communicate with.



Telemedicine & eHealth Directory 2005

Assistive Technology for Independence - AT4I

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United Kingdom

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Fax: +44 1226 208159

E-mail: simon.brownsell@bdgh-tr.trent.nhs.uk

www.barnsley.nhs.uk/BDGenHosp

Partners: Doncaster Metropolitan Borough Council

This project commenced April 1st 2004 and we plan to introduce telecare technologies throughout a sheltered housing scheme (approx 30-40 people) to improve independence, social inclusion and improve peoples health.

One element is to introduce lifestyle monitoring, were a system tailored to the individual is installed in the users home and detects changes in behaviour that indicate that intervention may be appropriate. Such systems can potentially automatically detect falls, reduce the fear of falling and therefore reduce the risk of a fall taking place; provide safety and security for the dwelling and user; reduce anxiety in carers; reduce the overall levels of care required; prevent hospital admittance and enable early discharge; and delay entry to residential and nursing homes. We will be using formal methods to quantify what impact such a system has during a 2 year evaluation on users, carers and professionals.

An on-site health monitoring station, where people can have key health parameters monitored; will also be introduced on the scheme. The final element of the project places emphasis on improved access to food/healthy living, social inclusion and education. Computers with free Internet access will be installed and provided for residents to access healthy eating; in particular access to on-line shopping and delivery.



Telemedicine & eHealth Directory 2005

BIOPATTERN

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E-mail: e.ifeachor@plymouth.ac.uk

www.biopattern.org

The BIOPATTERN Network of Excellence is a groundbreaking project that integrates key elements of European research to enable Europe to become a world leader in eHealth. The Grand Vision is to develop a pan-European, coherent and intelligent analysis of a citizen's bioprofile; to make the analysis of this bioprofile remotely accessible to patients and clinicians; and to exploit bioprofile to combat major diseases such as cancer and brain diseases.

BIOPATTERN integrates the research efforts of 31 institutions across Europe to tackle and reduce fragmentation in the new field of biopattern and bioprofile analysis which will underpin eHealthcare in the post genome era. It brings together leading researchers in medical informatics and bioinformatics from academia, the healthcare sector and industry in a new way, harnessing expertise and information to put Europe at the forefront of eHealth.

BIOPATTERN aims to identify how bioprofile could be exploited for individualised healthcare such as disease prevention, diagnosis and treatment. Its ultimate goal is to become a Virtual Research Institute recognised as a world-leading scientific resource.



Telemedicine & eHealth Directory 2005

BurnCase 3D

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Austria

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Tel: +43 7236 3343 674

Fax: +43 7236 3769

E-mail: burncase@uar.at

www.burncase.at

Partners:

- Polytechnic University Hagenberg (Dr. W. Jacak)
- AUVA Unfallkrankenhaus Linz (Dr. H. Haller, Dr. C. Rodemund)
- Landeskrankenhaus Feldkirch (Dr. H. Wallner)
- Universitätsklinik Innsbruck (Dr. M. Öhlbauer)

Exact documentation is the basis for comparable medical and scientific studies. The postulated requirements of medical institutions for documentation and accuracy absorb a lot of time and work of surgeons. BurnCase 3D is a software system that simplifies and improves diagnosis, medical treatment and documentation of human burn injuries. The project goals are:

- * Simplification and Improvement of Diagnosis and Medical Treatment of Burns
- * Exact Burn Surface Area Calculation
- * Evaluation of Standard Indices (ABSI, ICD, Mel Codes, DRGs, ...)
- * Reduce Work Expenditure of Surgeons
- * Base for Coverage of Service and Costs
- * Establish a New Standard According to Exactness and Accessibility
- * Improvement of Collaborative Work
- * Integrative Documentation of Operations and Diagnoses



Telemedicine & eHealth Directory 2005

Cardiology Teleconference in Russia

3-rd Cherepkovskaya, 15a
Moscow 121552
Russia

Contact: Dr. Sergey Nakonechnikov MD PHD

Tel: +7 095 414-62-70
Fax: +7 095 414-62-14
E-mail: Snn_cardio@mail.ru
www.cardioweb.ru

Partners:

- All regions of Russian Federation

The objectives of the Telemedicine projects are spreading new information among physicians. The project is focused on holding videoconferences. We broadcast from major cardiology congresses and conferences using ISDN and IP transmission. Scientific cardiologists lecture on coronary heart disease, hypertension, heart failure. Every month we carry out translation of clinical discussions- that are mostly complicated and unclear occasions of rarely met diseases. During the action modern methods of the disease treatment are discussed. All data from clinical discussions is posted on an open website of our Center. It allows physicians to get necessary information at convenient time in Internet. The information is performed in Internet as lectures and PowerPoint presentations.



Telemedicine & eHealth Directory 2005

COCOON

c/o Associazione Impresa Politecnico
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Italy

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Fax: +39 02 23992720

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www.cocoon-health.com

Presenting the right knowledge to the right medical professional in the right place and at the right time is of paramount importance in making critical medical decision. Driven by this paradigm, COCOON, a European Community funded research project, concerns the development of a knowledge-based approach to diagnostic and therapeutic risk management. COCOON is a 6th Framework EU project aimed at setting up a semantics-based healthcare information infrastructure with the goal of reducing medical errors. To this end, COCOON offers a set of Web services to support medical decision for risk management, along with a method for gluing them together through semantics with existing healthcare services from external providers.

**Telemedicine & eHealth Directory 2005****DELTASS - Disaster Emergency Logistic Telemedicine Advanced Satellites System**

SRU OP 2000

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Fax: +49 30 9406 3405

E-mail: graschew@mdc-berlin.dewww.rrk-berlin.de/op2000

Partners:

- Centre National d'Etudes Spatiales, CNES (F)
- Institut de Médecine et de Physiologie Spatiales, MEDES (F)
- European Aeronautic Defence- and Space- Company EADS: EADS-MS&I (F)
- Alcatel Space Industries (F)
- SPACEBEL (B)
- EADS-Dornier Mobile Systems (MOSYS) (D)

In DELTASS (co-funded by ESA) a disaster scenario was analysed and an appropriate telecommunication system for effective rescue measures for the victims was set up. Satellite-based systems are well suited for these circumstances, where generally ground infrastructures are partly or even totally destroyed. In such situations, even on a large geographic area, space-based services can easily and quickly be deployed. The DELTASS-project has demonstrated the operational performance of various services, covering the different aspects/phases of disaster emergency medicine. Based on a Workstation for Telemedical Applications via Satellite (WoTeSa) using the Wavelet-based interactive Video communication system (WinVicos) a satellite-based telecommunication system was finally realised for the telemedical communication between a MFH (Mobile Field Hospital) in the disaster area and a RH (Reference Hospital) outside of the disaster area. In the RH medical experts can support the medical treatments in the MFH as well as a quick and reliable decision on to which hospital a victim / patient needs to be evacuated (early triage). Both in the MFH and in the RH WoTeSa / WinVicos are used, as it combines the user-friendliness and flexibility of IP-based communication protocols with the sufficiently-high quality of the live transmission given the satellite bandwidth of 2 Mbit/s.

<http://telecom.esa.int/telecom/www/object/index.cfm?fobjectid=750>



World Health Organization



Telemedicine & eHealth Directory 2005

DICOEMS

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Fax: +39 02 40936200

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www.dicoems.com

DICOEMS aims to deliver an eHealth platform that acquires and transfers critical information from the place where a medical emergency occurs to remotely located health specialists for immediate assistance. The system instantiates a portable collaboration environment that brings together the on-the-spot care provider and a network of experts, thus enabling more effective decision support and risk management in primary diagnosis, pre-transfer arrangements and treatment of critical situations.



Telemedicine & eHealth Directory 2005

DICTATe

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Fax: +32 2 653 82 13

E-mail: info@preconsulting.be

www.dictate-eu.com

The DICTATe project focuses on the capture of clinical narratives by supporting health care professionals with a voice-mediated system for a structured data entry. DICTATe provides medical professionals with an essential productivity tool, an unobtrusive input device that will help them to avoid the burden of writing and dictating endless patient records and awaiting the return of documents from a transcriber. It reduces time wastes by doctors and nurses, providing much shorter turnaround time and correspondingly increasing the amount of time they can devote to their primary goals. This way they will be able to generate more thoughtful and comprehensive notes for each patient, producing accurate records and improving patient care and quality of service.



World Health Organization



Telemedicine & eHealth Directory 2005

DOC@HAND

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Fax: +39 02 27006614
E-mail: simonov@nomos.it
www.doc-at-hand.org

We aim to develop, test and validate an application that allows transparent access to heterogeneous databases, providing search information based on intuitive interfaces and queries based on ontology. Application also integrates DSS and unstructured / semi-structured document extraction tools. Integrated platform is accessible from portable platforms and will be validated in clinical institutions.

**Telemedicine & eHealth Directory 2005****doc@HOME**

Docobo (UK) Ltd
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Fetcham, Surrey KT22 9HX
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E-mail: adrian.flowerday@docobo.co.uk

www.docobo.co.uk

Partners:

- Curonia Research, Estonia
- Tartu University Clinics, Estonia
- Sia Fortech, Latvia
- Transpond Limited, United Kingdom
- Artec Design Group OÜ, Estonia

With explosive population increase and longer lifespan, healthcare has become one of the most important issues that people have to face with. There are studies, which estimate that 50% of all diseases are chronic. Latest reports show that some of the most important ways in increasing the quality of life and decreasing healthcare costs are preventive care, patient involvement in treatment procedure and efficiency in healthcare cost management.

Curonia Research uses unique doc@HOME concept for care of citizen by allowing them to take active role in the medical treatment process while greatly lowering the cost of overall healthcare. Our goal is to target the population with special needs where remote care and health related data exchange will provide services improving their life quality, life freedom and increased control over their condition. By doing all that we expect to cut overhead costs up to 50% by delegating more responsibility to patients themselves and providing convenient tools for self-care. Doc@HOME concept is easily adaptable to different patients groups such as patients with heart rhythm disorders, ischemia, diabetes, asthma, heart disease, and hypertension to mention a few.



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eHealth & Healthcare - Issues And Challenges Before IRMS

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Partners:

- Central Hospital, South Eastern Railway
- Indian Railway Medical Services
- Indian Association for Medical Informatics

Irms- An Overview

Current Ehealth & Healthcare Scenario

Global Ict Initiatives

Difficulties Faced

Issues & Challenges In The Horizon

Possible Drivers Of The Future

Health Vision In Indian Railway Medical Service

**Telemedicine & eHealth Directory 2005****EMISPHER – Euro-Mediterranean Internet-Satellite Platform for Health, medical Education and Research**

SRU OP 2000

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E-mail: graschew@mdc-berlin.dewww.rrk-berlin.de/op2000

Partners:

- Centre International de Chirurgie Endoscopique, Clermont-Ferrand
- Aïn Shams University and NIFRT, Cairo
- Agence National de Documentation de la Santé, Algiers
- Faculty of Medicine and Pharmacy of Casablanca
- Faculty of Medicine of Tunis
- Continuing Medical Education and Research Centre, Istanbul
- NCSR Demokritos, Athens
- University of Cyprus
- Istituto Mediterraneo per i Trapianti e Terapie ad Alta Specializzazione, Palermo
- Charité University Medicine, Berlin

The EMISPHER project (EUMEDIS Pilot Project 110, see www.emispher.org/, co-funded by the EC under the EUMEDIS programme) is dedicated to telemedicine, E-Health and medical E-Learning in the Euro-Mediterranean area. During its implementation in 2002-2004, EMISPHER has deployed and put in operation a dedicated internet-satellite platform consisting of currently 10 sites in 5 MEDA countries (Morocco, Algeria, Tunisia, Egypt and Turkey) and 5 EU countries (Italy, Greece, Cyprus, France and Germany). The EMISPHER network hosts three applications in the field of medical E-Learning (EMISPHER Virtual Medical University with courses for undergraduates, graduates, young medical professionals, etc., in real-time and asynchronous modes), real-time Telemedicine (second opinion, demonstration and spread of new techniques, Telementoring, etc.) and eHealth (medical assistance for tourists and expatriates). EMISPHER fosters cross-Mediterranean cooperation between the leading medical centers by establishing a permanent medical and scientific link. EMISPHER provides for medical professionals in the whole Euro-Mediterranean area access to the required quality of service, thus bridging and avoiding a digital divide.



Telemedicine & eHealth Directory 2005

EUTIST-M

Project Coordinator: Polytechnic University of Valencia
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Fax +34 96 3877359

E-mail: vhernand@dsic.upv.es

www.medicaltech.org

Partners:

- Project Coordinators:
 - Polytechnic University of Valencia (project coordinator)
 - ENEA – Ente per le Nuove tecnologie, l’Energia e l’Ambiente, Italy
 - CINECA – Consorzio Interuniversitario dell’Italia Nord-Orientale per il Calcolo Automatico, Italy
 - EPCC – Edinburgh Computing Centre, UK
- Project partners: more than 35 partners from industry, health care and research organisations coming from all over Europe

EUTIST-M is a cluster of 11 projects which goal it is to promote advanced information technologies in various medical sectors.

EUTIST-M is financed by the European Commission through its 5th Framework Program for Research and Development.

The projects are oriented to dermatology (ADAM, DERMA), radiology (CREAM, DISMEDI), surgery planning (AQUATICS, VISU), orthopaedics (FRAFEM, ISAC), cancer screening (AUTOSCREEN), intensive care units (IONIC), and hearing aid fitting (DEAF).



Telemedicine & eHealth Directory 2005

e-Vital

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<http://crnettest.arbonaut.com/evital/>

Partners:

- INA
- SchlumbergerSema
- Mutuam
- Eurodiagnosi
- Brunel University
- Politechnic University of Athens
- Watford and Three Rivers PCT
- Netsmart

The UK pilot examines the use of telemonitoring in residential care homes. Normally such homes do not have doctors on site. Vital signs are monitored and the data is available to a remote doctor to assess the condition of a person who may have a health problem in order to determine appropriate management and care.



Telemedicine & eHealth Directory 2005

Hodges Health Career - Care Domains - Model

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United Kingdom

Contact: Peter Jones

Tel: +44 1204 696914

E-mail: h2cmuk@yahoo.co.uk

www.p-jones.demon.co.uk

Partners:

- Brian E Hodges [h2cm author]
- Peter Jones [Webmaster & Contributor]

An initiative to publicize a health and social care model, utilizing conceptual integration, with universal applications - especially when allied to effective Information & Communications Technologies. This model is a person/user centered, problem solving, engagement tool - designed in the 20th Century for the problems of the 21st Century.

This approach can support health educational, citizenry and community informatics initiatives.

A truly unique set of www links includes open source, visualization, information assurance, evidence based medicine, xml, markup languages, health telematics.



Telemedicine & eHealth Directory 2005

IMPACT. Intelligent Medical Patient Record And Coding Tool

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www.Hospitalathome.gr

Partners:

- Elias Papazissis MD, MSc, General Practitioner, Director of Hospital at Home Dept.
- Hygeia Hospital, Athens.

IMPACT enables doctors, nurses and health care professionals to synthesize complex codes by simply combining and organizing code components that describe the patient-history and the physical examination findings in a user-friendly way.

The IMPACT software reproduces real text from the codes, which describes specific characteristics of symptoms, time of onset, duration, intensity, variations and physical signs. There are also codes to describe the negative (normal) findings, which are essential to differential diagnosis. All this while formalizing patient records.

Texts are no longer depended on doctors` writing skills or on audio-typists` abilities to comprehend and type medical terms correctly. Furthermore medical reports and entire patient files can be easily reproduced in the languages of choice.

Among the multiple benefits of the use of IMPACT we can point out its valuable contribution to clinical research and quality improvement in health services.

**Telemedicine & eHealth Directory 2005****INASP-Health**

International Network for the Availability of Scientific Publications
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Fax: +44 1865 251060

E-mail: health@inasp.info

www.inasp.info/health

Partners:

- BMJ
- Exchange (www.healthcomms.org)
- IICD
- Wellcome Trust

INASP-Health is a cooperative network of more than 1000 organizations and individuals worldwide, working together to improve access to relevant, reliable information for health professionals in developing and emerging countries. It is a specific programme of the International Network for the Availability of Scientific Publications, an international non-governmental organization founded in 1992 by the International Council for Science.

INASP-Health provides the following services for the international health information community:

1. INASP-Health Advisory and Referral Network <http://www.inasp.info/health>
2. Health Information Forum <http://www.inasp.info/health/forum.html>
3. INASP-Health Directory <http://www.inasp.info/health/directory/index.html>
4. 'HIF-net at WHO' email forum <http://www.inasp.info/health/index.html#3>
5. INASP Health Links <http://www.inasp.info/health/links/contents.html>
6. Capacity-building programme <http://www.inasp.info/health/>

1. INASP-Health Advisory and Liaison Service. INASP-Health maintains an extensive database of the activities of network participants. Dozens of communications and enquiries are handled daily, facilitating collaboration, liaison, and sharing of experience and expertise. Participants are kept up to date with current events in the field through the INASP Newsletter.

2. Health Information Forum (HIF). The Health Information Forum is a series of thematic workshops, providing a neutral forum for discussion, debate, and sharing of ideas and experience among providers and users of health information. The workshops are open to all, and representation by colleagues in developing countries is enabled by the organization of study visits, and by email, satellite audiocasting, and videoconferencing.

Forthcoming HIF Meetings

* Leapfrog technologies: the potential of handheld computers, mobile phones and other wonderful gadgets. Venue: British Medical Association, London, 27-4-04

INASP-Health is currently working with colleagues in Africa, Asia, and Latin America to explore the development of 'HIF' activities at regional and national level.

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3. INASP-Health Directory. INASP-Health publishes *the* directory of organizations working to improve access to information for health professionals in developing countries. Available on the INASP website, the directory serves as a networking tool for building professional relationships and sharing information, and as a reference for those in resource-poor settings who are seeking support.

4. HIF-net at WHO is *the* email discussion forum dedicated to issues of health information access in resource-poor settings. Launched in July 2000 in collaboration with WHO, the forum is moderated, focused, and text-only. The list has more than 1,300 subscribers worldwide, including health professionals, librarians, publishers, NGOs, and international agencies. More than 40% of subscribers are based in developing and emerging countries. The address is hif-net@who.int.

Why join HIF-net at WHO ?

- * Be part of a worldwide community dedicated to improve access to health information
- * Raise international awareness about your services
- * Identify contacts and potential collaborators
- * Find out about conferences, workshops, funding and training opportunities, useful websites, new publications...
- * Learn from others...explore new ideas and perspectives...understand priorities and needs...collaborate to achieve common goals.

"HIF-net at WHO is the best list that deals with health information... in many ways. It seems to me that its membership is of very high quality, serious people, active people, people who seem to have a mission in delivery of health information." Dr. Najeeb Al-Shorbaji, WHO Regional Office for the Eastern Mediterranean

"The information that I have received from this resource has been crucial to my academic and professional survival in Ghana." Dr Victor Doku, Psychiatrist and Epidemiologist, Kintampo Health Research Centre, Ghana

"An extremely useful network regarding training, education and information technology initiatives in the developing world. I rely mainly on this list for information. I have made many useful contacts through the list which have greatly assisted my work." Dr Stephen Allen, University of Oxford 'E-learning Programme on Global Health', UK

5. INASP Health Links is a Gateway to selected Web sites that are of special interest to health professionals, medical library communities, publishers, and NGOs in developing and transitional countries. Available online, on CD-ROM, and in printed format.

6. Capacity-building programme. INASP-Health facilitates strategic and practical workshops within developing countries, at regional and country level.

Participation in the INASP-Health network is free of charge and without obligation.

* Join HIF-net at WHO ! Email your name, affiliation and professional interests to health@inasp.info.



Telemedicine & eHealth Directory 2005

InFace

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Cyprus

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Fax: +357 22 67 8917
E-mail: inface@lgcom.net
www.inface.net

Partners:

- Guy's & St Thomas' NHS Trust (UK)
- Aerial Conseil (F)
- Language and Computing (B)
- NetVision (CY)
- Optimum Knowledge Systems S.A. (GR)
- Eurodiagnosis (GR)
- Athens University of Economics and Business (GR)
- UJF Université Joseph Fourier (France)

InFace Project (IST-2001-38187) is part funded under the 5th Framework program of the European Commission within the Information Society Technologies (IST) Program.

The InFace web based system aims to contribute towards the creation of a health-knowledge infrastructure that will facilitate the retrieval of information in alignment to the needs and the personal characteristics of the health professionals, the institutions and the citizens.

InFace will provide health professionals with a user friendly web-based environment for accessing, retrieving and visualize in an easy to understand manner patients related information – within the domain of breast cancer – being stored into a wide variety of distributed, usually heterogeneous multimedia resources and databases. Health professionals will also be offered ubiquitous, timely and secure access to medical data at the point of care and through a variety of communication means and network infrastructures improving as a result their mobility in their everyday working life.

The general benefit of the InFace system will be the dissemination of medical information and most importantly medical knowledge, among professionals at the point of care. This in turn will greatly contribute towards the improvement of the decision making process of health professionals, and as a result improvement of their services to patients.

**Telemedicine & eHealth Directory 2005****INFOBIOMED**

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Partners:

- FUNDACIÓ IMIM (Spain)
- INSTITUT MUNICIPAL D'ASSISTÈNCIA SANITÀRIA (Spain)
- INSTITUTO DE SALUD CARLOS III (Spain)
- KAROLINSKA INSTITUTET (Sweden)
- U. OF EDINBURGH (UK)
- CUSTODIX N.V. (Belgium)
- U. POLITECNICA DE MADRID (Spain)
- U. DE AVEIRO (Portugal)
- FOUNDATION FOR RESEARCH AND TECHNOLOGY – HELLAS (Greece)
- FYNS AMT (Denmark)
- INFORMA S.R.L. (Italy)
- HEINRICH-HEINE-U. DUESSELDORF (Germany)
- ERASMUS U. MEDICAL CENTER ROTTERDAM (The Netherlands)
- DANISH HNPCC-REGISTER, HOVEDSTADENS SYGEHUSFÆLLESSKAB, HVIDOVRE HOSPITAL (Denmark)
- VERENIGING VOOR CHRISTELIJK WETENSCHAPPELIJK ONDERWIJS and U. VAN AMSTERDAM - ACADEMISCH CENTRUM TANDHEELKUNDE AMSTERDAM (The Netherlands)
- ASTRAZENECA AB, (Sweden)

The idea of INFOBIOMED is to create a stable and lasting RTD structure on Biomedical Informatics. Biomedical Informatics is an emerging discipline placed in the confluence between Bio-informatics (computer science applied to the analysis of the genomic and proteomic information) and Medical Informatics (information technologies to support healthcare). These disciplines have been developed in an independent form, but show now great opportunities for interaction and synergistic cooperation.

The genomic revolution is offering interesting opportunities for significant improvements in disease prevention, diagnosis and treatment, with a view on continuity and individualisation of healthcare, with the aim of improving the health and quality of life of the citizens, as well as to efficiency of the expenditure of the healthcare system. This new approach (Genomic Medicine) needs a parallel development of innovative strategies and tools for information management and analysis, which are the ones afforded by Biomedical Informatics.

Therefore, the mission of INFOBIOMED will consist of providing scientific and technological knowledge and experiences on the application of information technologies to the Genomic Medicine.



World Health Organization



Telemedicine & eHealth Directory 2005

INTREPID

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www.intrepid-project.org

IST Project Intrepid FP6: A Virtual Reality Intelligent Multi-Sensor Wearable System for Phobias' Treatment.

**Telemedicine & eHealth Directory 2005****MEDASHIP - Medical Assistance for Ships**

SRU OP 2000

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Partners:

- D'Appolonia S.p.A. (I)
- Avienda (UK)
- Eutelsat (F)
- National Centre for Scientific Research, NCSR Demokritos (GR)

In MEDASHIP (2002-2003, co-funded by EU) an integrated system for telemedical consultations on board of cruise liners and merchant ships was set up and evaluated. Such a system should allow an improved medical care for passengers and crew members. In case of medical emergency on board of ships the usual procedure is that the medical staff contacts the closest support center via radio and asks for help and advice. However, the medical information that can be transmitted during a radio consultation is clearly too limited for the experts to give valuable advice. Often it is then decided to meet with a rescue team (e.g. in a helicopter) to have the patient transported to an expert center for further diagnosis and therapy, causing substantial extra costs. During the pilot phase, the medical centers of three ships have been equipped additionally with an ultrasound medical system and an electrocardiograph (12 channels), interfaced to a Workstation for Telemedical Applications via Satellite (WoTeSa) using the Wavelet-based interactive Video communication system (WinVicos), as well as a satellite terminal (VSAT) on a stabilised platform (e.g. stabilisation of the antenna with satellite tracking). In the three reference hospitals (RH's) a VSAT-terminal coupled to WoTeSa / WinVicos is used. In the MEDASHIP network every ship can communicate with any RH. The real costs for this 24-hour telemedical service have been evaluated. www.medaship.com



Telemedicine & eHealth Directory 2005

MEDICATE

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Newtownabbey
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Northern Ireland, UK

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Fax: +44 2890 366553

E-mail: Nd.black@ulster.ac.uk

www.medicare-online.org

Partners:

- University of Ulster (UK)
- CSEM (Switzerland)
- ERGO (Greece)
- University of Cyprus (Cyprus)
- University of Verona (Italy)
- MEDEA (Italy)
- Imperial College London (UK)

The MEDICATE project entails the development of a medication compliance enhancing solution. This solution consists of a device designed to assist personal medication management and an IT infrastructure that will link all stakeholders in the prescribe-to-intake chain for medication. The system has been designed and developed based on a comprehensive study of the human factors associated with poor levels of patient compliance. The project which began in May 2001, is headed by the Institute of Health Informatics at the University of Ulster and is funded by the EU under the Fifth Framework Information Society Technologies program. Currently, the prototype system(s) are undergoing a final phase of clinical evaluation.



Telemedicine & eHealth Directory 2005

MEMO - Medical Mobile Devices

Les Rives
86460 Availles Limouzine,
France

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Fax: +33 5 49 48 88 63

E-mail: ctristram@med-mobile.org

www.med-mobile.org

Partners:

- Txt SpA, Italy
- IBM Pervasive computing, Czech Republic
- Informa, Italy
- Language and Computing, Belgium
- Fundacio IMIM, Spain
- University of Cyprus, Cyprus
- University Hospital, Basel, Switzerland

To support the rapid uptake of mobile devices (MMDs) within the healthcare market building on the work being done by existing EU funded projects. The key objectives are:

- Create a business model to support the rapid take up and sale of mobile devices;
- Create an evaluation method for MMDs;
- Identify the key technologies and create an environment for their uptake;
- Create a web portal and observatory for MMDs;
- Propose actions to encourage interoperability and measure their impact;
- Share market knowledge between the partners to increase the effectiveness of their marketing and exploitation plans;
- Disseminate information about MMDs to interested parties.



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Mobile Telemedicine Solutions: Application in Practice

Lomonosovsky ave. 31, build. 5
Moscow 119192
Russia

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Tel: +7 095 932 99 07
Fax: +7 095 932 99 07
E-mail: orlov@telemed.ru
www.telemed.ru

Partners:

- investment institutions
- clinical centers
- equipment producers
- communication providers

Elaboration and implementation of investment projects in the area of:

1. Development and application of mobile telemedicine solutions:
 - mobile complexes for patients monitoring in remote areas;
 - dynamic monitoring systems for workers of potentially dangerous industries.
2. Establishment of commercial home telemedicine service centers.



Telemedicine & eHealth Directory 2005

NeXOS - Remote rehabilitation using an intelligent exoskeleton with web-based control

EPICentre
University of Abertay Dundee
Dundee DD1 1HG
United Kingdom

Contact: David Bradley

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E-mail: d.bradley@abertay.ac.uk

Partners:

- Barnsley District General Hospital, UK
- Sheffield University, UK
- Sheffield Hallam University, UK

Rehabilitation of the lower limbs is important to maintain or restore muscle function and control while moving the limbs passively can maintain soft tissue length and act to reduce pain for a range of clinical conditions. With continued time pressure on rehabilitation services and physiotherapists, there is a desire to develop robotic aids to assist in the repetitive nature of some exercises or Range of Movement tasks.

The NeXOS project is aimed at the development of a robotic aid that targets the lower limbs and can be operated in a range of environments including hospitals, community care centres and the users own home and controlled via the Internet. The programme is also concerned with the identification of key target groups along with matters such as system definition and configuration, interfacing for both physiotherapists and users, control and control strategies and design.



World Health Organization



Telemedicine & eHealth Directory 2005

Online Caregiver Service for Homebound Elders & Disabled

1310 N. Sweetzer #104
Los Angeles, California 90069
USA

Contact: Kara Bennett, Ph.D.

Tel: +1 323 656 6780

Fax: +1 323 656 6780 (please phone before faxing)

E-mail: Ksmdances@cs.com

www.geocities.com/minddancers

We are developing a prototype of an online service for homebound elders and disabled to interact with their caregiver, family members, and physicians. The project involves assessment of a new method for helping people experience what they value when they have a chronic health condition. The method evolved over a seven year period of being caregivers for the project director's father who had dementia. Designing a "Spirit Memory Journal" helped bring what he loved into his daily life environment. The journal is an interactive story about the person's most important values, and involves the use of multimedia to help the person perform a desired task. We would like to offer the journal online and are looking for funding for the research involved.



World Health Organization



Telemedicine & eHealth Directory 2005

PALLIANET

c/o Objective S.A.
19 Avenue de la Renaissance
1000 Brussels
Belgium

Tel: +32 2 736 37 73
Fax: +32 2 736 37 73
E-mail: fp@ob-consult.com
www.pallianet.eupm.net

IST Project Pallianet FP6: Decision support and knowledge driven collaborative practices in Palliative Care.



Telemedicine & eHealth Directory 2005

Prevention and the Internet Supercourse

University of Pittsburgh
3512 Fifth Avenue
Pittsburgh, PA 15213
USA

Contact: Ronald E. LaPorte, Ph.D., Director, Disease Monitoring and Telecommunications,
WHO Collaborating Centre, Professor of Epidemiology, Graduate School of Public Health

Tel: +1 412 383 2746

Fax: +1 412 383 1026

E-mail: ronlaporte@aol.com

www.pitt.edu/~super1/index.htm

Partners:

- FSU Internet Prevention Program (www.pitt.edu/~super1/national/index.htm)
- Islamic Global Health Network (www.islamichealth.com)
- Pakistan and India Health Networks (www.pitt.edu/~super1/index1.htm)

Q: What is the best means to improve public health teach and research?

A: Improve the lectures.

Q: How do we improve higher education lectures?

A: Have academic faculty worldwide share their lectures.

Q: Will faculty share lectures?

A: Yes, the Supercourse has 14000 faculty from 146 countries who created a Library of Lectures with more than 1700 lectures on the Internet with quality control, and cutting edge cognitive design. This is being shared worldwide.



Telemedicine & eHealth Directory 2005

PRO-ACCESS

Katedra Informatyki
Al. Mickiewicza 30
30-059 Krakow
Poland

Contact: Prof. Krzysztof Zielinski

Tel: +48 12 6173902

Fax: +12 6339406

E-mail: ehealth@cyfronet.krakow.pl

www.pro-access.org

Partners:

- Academic Computer Centre CYFRONET of the University of Science and Technology in Krakow, Poland
- Department of Informatics, National Institute and Library for Health Information, Hungary
- Kaunas University of Technology, Institute of Biomedical Engineering, Lithuania
- The European Centre for Medical Informatics, Statistics and Epidemiology of Charles University and Academy of Sciences (Euromise Centre), Czech Republic
- "Iucian Blaga" University of Sibiu, Romania

The ImPROving ACCESS of Associated States To Advanced Concepts In Medical Informatics (PRO-ACCESS) project focuses on creating a platform for promotion, dissemination and transfer of advanced health telematics concepts and experiences from development and deployment of telemedicine solutions to NAS. To achieve this, a Centre of Competence will be established to broaden the formula of the Krakow Telemedicine CoE existing in Poland, in order to coordinate publishing activities, events, trainings and intake of solutions from cooperating partners within EU and NAS. The main impact of the Centre will be a substantially improved awareness of state-of-the-art medical telematics technologies in NAS. The Krakow Telemedicine CoE will be thereby strengthened by increasing its networking with leading RTD centers in EU and NAS, and by training of research and professional staff of the Centre and target user groups of e-health solutions developed in the CoE.



Telemedicine & eHealth Directory 2005

Remote ECG consulting for rural population

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Ukraine

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E-mail: tomogr@kharkov.com

Partners:

- Ministry of Health of Ukraine
- Institute of Cardio-Vascular Surgery of Academy of Medical Science of Ukraine
- Kherson Regional Cardiological Center
- Kharkov Regional Hospital
- TREDEX Company Ltd.

Project Goal: Establishing of a telemedical structure connecting rural ambulatories to leading cardiological centers of Ukraine for remote ECG diagnostics and consulting.

Project is based on 12-channel digital transtelephonic ECG system TELECARD designed and produced by TREDEX Company Ltd, Kharkov, Ukraine.

First stage of the project allowed to connect 20 district hospitals of Kherson Region to the Kherson Regional Cardiological Center. On the second stage 19 rural family ambulatories and first-aid posts were connected to the Kharkov Regional Hospital.

Intermediate project results allowed estimating important differences between two hierarchic levels of healthcare system in the sphere of practical use of telemedical technologies.

Next stages of the project intends establishing of telemedical system in other regions of Ukraine.



Telemedicine & eHealth Directory 2005

Respiratory Telehealth

1200 Hospital Bench
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Canada

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Fax: +1 250 364 3422

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www.interiorhealth.ca

Partners:

- Province of Quebec - CLSC du future

Chronic disease management needs to shift from Acute Care to the Community with an emphasis on supporting clients through medical events and preparing them to better manage their health care issues in the future. Best practice protocols have been developed in Community Care, and Telehealth provides a process for rigorous monitoring and follow-up of our COPD clients. Telehealth nurses would utilize all of the COPD protocols for the target population, which would create decrease demands on the acute care system (hospital admission rate, readmission rate, length of stay), encourage self-management and improve the quality of life for our clients. Respiratory Telehealth provides a system that enables Community Care nurses to efficiently monitor COPD clients, increasing our capacity to intensively manage these types of clients. Telehealth also provides a framework for chronic disease management that could be applicable to other chronic diseases across IHA.



Telemedicine & eHealth Directory 2005

Riga City Teleradiology System

Rātslaukums 1
1539 Riga
Latvia

Contact: Egils Stumbris

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<http://itc.rcc.lv>

Partners:

- Telemedicine and Videoconference Division RCC Information Technologies Centre
- Health Care Division of Riga City Council Welfare Department

Objectives of the project: To install radiological information system RIS, archiving and communication system PACS and videoconference centre to establish INTERNET and ISDN link for the Riga hospitals with other hospitals in Latvia and competence centers of foreign radiologists.

Activities:

- Purchasing of equipment and
- Staff training
- System testing and optimization
- Physician and society information about possibilities of telemedicine

The project will result in the following:

1. Unitary radiology network (RIS)
2. Centers of competence in radiology in which highly qualified medical experts are working, ensuring access to telemedicine consultations 24 hours per day
3. Central server for archiving radiological materials
4. Videoconference system

**Telemedicine & eHealth Directory 2005****Salut! - Intelligent Environment for the Diagnostics, Treatment and Prevention of Eating Disorders**

NetUnion
Avenue de Villamont, 19
1005 Lausanne
Switzerland

Contact: Tony Lam

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E-mail: lam@netunion.com
www.netunion.com

Partners:

- Hôpital de la Timone – Espace Arthur, Marseille, France (Administrative Coordinator)
- NetUnion SARL, Lausanne, Switzerland (Technical/Scientific Coordinator)
- CINDOC/CSIC, Madrid, Spain
- Hôpitaux Universitaires de Genève, Unité de Psychiatrie de Liaison, Genève, Switzerland
- Hôpital de Malévoz / IPVR, Monthey, Switzerland
- Hospital Universitario 12 de Octubre, Madrid, Spain
- National Resource Centre for Eating Disorders (NÄT), Örebro, Sweden
- Conecta Srl, Udine, Italy
- VITAMIB SARL, Meylan, France

SALUT (www.salut-ed.org) will leverage advances in information and telecommunication technologies to design, prototype and validate innovative tools and cost effective strategies for prevention, diagnosis and treatment of eating disorders. The project has two main objectives: (a) to develop innovative tools for supporting the prevention and treatment of bulimia; (b) to facilitate the exchange of reliable information about eating disorders between health professionals, researchers and the general public.

A main project result is the implementation of an online Self-Help Guide (SHG) for outpatient treatment of Bulimia Nervosa. The SHG is based on Cognitive Behavioural Therapy (CBT) and contains seven sequential steps. Each step includes lessons, exercises, and examples designed to help the patient observe their own behaviour and develop a personal strategy towards recovery. A demo version of the SHG is available at <http://demo.salut-ed.org/>. The online SHG is the only structured treatment program for Bulimia Nervosa currently available in six languages (French, German, Spanish, Swedish, English, and Italian). Pilot studies conducted on the French version show promising results both in efficacy (reduction of symptoms) and in user acceptance. Controlled evaluation of the French, Swedish, Spanish versions will continue throughout 2004.

Another focus of the SALUT project is the implementation of regional research and prevention networks within the partner countries. These regional platforms play a vital role in supporting information exchange between health professionals, researchers and other stakeholders by offering newsletters, events, index of organisations, conferences, eating disorder FAQs, etc. The regional networks also played a major role in the dissemination of prevention recommendations based on the “Mediterranean Diet” developed in collaboration with other EU projects in the “Citizen” health cluster. These recommendations were disseminated in prevention programs organised by local school districts and health authority in Spain and were one of the project’s success stories.

While the project targets only specific areas within a domain, we expect the tools and other project results to serve as building blocks for a new patient environment supporting a more collaborative relationship between doctors and their patients and expanding patient access to high quality health care through the integration of innovative technical solutions.



Telemedicine & eHealth Directory 2005

Septemvri Telecentre Project

Bulgarian Academy of Sciences
Solar-Terrestrial Influences Laboratory
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Bulgaria

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Fax: +359 2 870 0178

E-mail: tdachev@bas.bg

www.stilrad.bas.bg / www.stil.bas.bg

Partners:

- Bulgarian Ministry of Transport and Communication
- Bulgarian Association of Telecentres
- Bulgarian Telecommunication Company
- Septemvri Community, Bulgaria
- Community Medical Centres, Bulgaria
- Telemedicine Group, Solar-Terrestrial Influences Laboratory at Bulgarian Academy of Sciences
- BDT/ITU

The **overall objective** of this project is the field trial of deployment of Wireless IP Based Systems in Rural Areas that will allow the successful pilot to be used as a model for future full-scale implementation of IP-based, wireless infrastructure in rural areas.

The **specific objectives** of the pilot project are:

- To test the suitability of packet-based wireless access infrastructure for delivering multimedia applications in rural areas.
- To provide an easy access to data and voice services, where needed, in rural area and hence to:
 - Provide adequate telemedicine care (tele-cardiology, tele-dermatology and tele-psychology) in the fields of tele-consultation, tele-diagnostics, tele-treatment of people at any time;
 - Increase access to medical information;
 - Stimulate the development and growth of local businesses;
 - Develop ICT skills among the local population and
 - Increase access to education facilities.



Telemedicine & eHealth Directory 2005

Supporting Independence - New Products, New Practices, New Communities

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South Kensington Campus
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United Kingdom

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Fax: +44 20 7823 7685

E-mail: j.barlow@imperial.ac.uk

www.imperial.ac.uk/tanaka/innovation

Partners:

- Imperial College London
- University College London
- University of Dundee
- Barnsley District General Hospital NHS Trust
- Anchor Trust
- Thomas Pocklington Trust
- Tunstall Telecom Ltd.

This three year project, which began in October 2003, is investigating the deployment of telecare for elderly people living in contrasting housing settings. Its key aims are to:

- Evaluate packages of telecare technology in terms of their potential role in promoting independence, the ease with which they can be deployed and their generalisability to differing housing settings
- Develop service and business models that integrate telecare with mainstream care delivery processes
- Develop improved evaluation tools and techniques for modelling user needs and matching them to technological solutions
- Investigate the wider implications of introducing telecare solutions for local care systems

The research is being carried out in a new 'care village' being developed by **Anchor Trust** in Denham, Buckinghamshire, an extra care housing scheme developed by **Thomas Pocklington Trust** in Plymouth and the existing general housing stock in Barnsley. These represent 'live laboratories' to test and demonstrate the mainstream implementation of telecare and design solutions.

The research is funded by the Engineering and Physical Science Research Council under the EQUAL Programme (GR/S29058/01)

**Telemedicine & eHealth Directory 2005****Tele-3D-Computer Assisted Surgery (Tele-3D-CAS)**

Department of Otorhinolaryngology-Head & Neck Surgery
Zagreb 10000
Croatia

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E-mail: telMED@mef.hr

www.mef.hr/MODERNRHINOLOGY

Partners:

- Referent Center for Computed Surgery and Telesurgery, Ministry of Health, Croatia
- Croatian Telemedicine Society, Croatian Medical Association, Croatia
- Telemedicine Association Zagreb, Croatia
- Department of Otorhinolaryngology H&N Surgery, Zagreb University School of Medicine, Zagreb, Croatia
- Mechanical Engineering Faculty of Slavonski Brod, University of Osijek, Croatia
- Faculty of Electrical Engineering and Computing Science, University of Zagreb, Zagreb, Croatia

One of the main objectives of our project was to design a computer assisted 3D-approach in presurgical planning, intraoperative guidance and postoperative analysis of anatomical regions of the nose and paranasal sinuses (www.mef.hr/3D-CFESS). The idea was born in the early '90s, and our first operation of this kind was done in May 1994 (www.mef.hr/warwounds). Such an extremely powerful approach should allow a better insight into the operating field including significantly greater safety of the procedure itself (www.mef.hr/orbit). Using our own approach in computer assisted functional endoscopic sinus surgery, we were able to "look inside" the patient, during the real surgical procedure.

Telesurgery, as a specific part of telemedicine, consists of two or more operating rooms connected with a computer network. Through this network two encoded live video signals from endo-camera and operating room camera are transferred to other remote locations involved in the telesurgery/consultation procedure.

Our telesurgery approach allows surgeons not only to see and to transfer video signals, but also to transfer 3D computer models and surgical instrument movements with image/3D-model manipulations, all together, in real time during the surgery (www.mef.hr/Tele-FESS).

We use JPEG, MPEG2 and MPEG4 encoders and decoders, ATM communication equipment, graphic workstations, 3D digitizers and standard endoscopic surgical instruments. The new video encoders using MPEG2 and MPEG4 standards and ATM computer networks using inverse multiplexing, greatly improve the safety of surgical procedures, especially in endoscopic surgery. The best results are obtained using ATM-OC3 technologies, with the most acceptable price-performance using inverse multiplexing method across 4-8 E1 lines (www.mef.hr/MODERNRHINOLOGY).

Literature: Klapan I, et al. *Orbit*, 20(1):35-49, 2001

Klapan I, et al. *Am J Otolaryngol*, 23(1):27-34, 2002.

Klapan I, et al. *J Telemed Telecare*, 8:125-130, 2002.

Klapan I, et al. *Otolaryngology Head Neck Surg*, 127:549-557, 2002.

Klapan I, et al. *Otolaryngology Head Neck Surgery*, 121 (2):P187-188, 1999.

Klapan I. *Telemedicine e-Health*, 8(2):217, 2002.

Klapan I. *Telemedicine J e-health* 9(1):43, 2003.

Klapan I. *Otolaryngology Head Neck Surg* 129(2):147, 2003.

Glušac B, Klapan I. *Telemedicine J e-health* 9(1):104-105, 2003.



Telemedicine & eHealth Directory 2005

Teleconsultative Service Network

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Russia

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E-mail: tbruskina@telemed.ru

www.telemed.ru

Partners:

- Clinics and telemedicine centers of Russian regions
- Leading Russian clinical consultative centers
- Clinical consultative centers of Europe and US

Telemedicine Foundation built a corporate teleconsultative service network for the Russian regional telemedicine center and local clinics, and for the private patients.

The teleconsultative network provides services off-line and via videoconferencing. Telemedicine Foundation elaborated and introduced into practice the technological and legal bases for commercial teleconsultative services. Telemedicine services are provided by leading clinical centers of Russia, Europe and US.



Telemedicine & eHealth Directory 2005

Telemedicine Communications System in Telecardiology in Riga

Rātslaukums 1
1539 Riga
Latvia

Contact: Egils Stumbris

Tel: +371 7 105256
Fax: +371 7 105253
E-mail: egils.stumbris@rcc.lv
<http://itc.rcc.lv>

Partners:

- Telemedicine and Videoconference Division of Riga City Council
- Municipal Non-profit Organization SIA Clinical Hospital "Gaiļezers"
- Municipal Non-profit Organization SIA "Riga Hospital Nr 1"
- Riga Ambulance Station
- Emergency Medicine Centre of the Republic of Latvia Ministry of Health
- passenger ferry "Baltic Kristina"

Goal of the project is to implement a single telecommunications system in tele-cardiology, which would ensure provision of tele-cardiology services in Riga.

Activities:

- Purchasing and installing of equipment and software
- Staff training
- System testing and optimization
- Physician and society information about possibilities of telecardiology

The project will result in the following:

1. Implemented cardiology telecommunications system covering Riga Ambulance Station, Emergency Medicine Centre of the Ministry of Health of the Republic of Latvia, Municipal hospitals - Riga Hospital No.1, Clinical hospital "Gaiļezers" and passenger ferry "Baltic Kristina".
2. Implemented telemedicine telecommunications system covering passenger ferry "Baltic Kristina" and Emergency Medicine Centre of the Ministry of Health of the Republic of Latvia, Telemedicine and Videoconference Group of Riga City Council, the Coast Guard of Sweden and clinics of Goteborg linked to it. High quality and safe provision of services available to Latvia's residents and to foreign tourists.



Telemedicine & eHealth Directory 2005

Telemedicine in Russia

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Russia

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www.telemed.ru

Partners:

- Russian clinical and scientific centers
- regional telemedicine and clinical institutions
- telemedicine equipment producers
- communication providers
- business groups

Project on creating a unified telemedicine service in the Russian Federation for the low-income and socially unprotected strata of population, for victims of terrorism and natural disasters.

Project features:

- Uniform telemedicine information system;
- Unified system for providing teleconsultation services to population;
- Telemedicine technology for support of preventive and rehabilitation measures;
- Telemedicine for urgent conditions, man-caused and natural disasters;
- Telemedicine dynamic monitoring systems;
- Incorporation of telemedicine training procedures into telemedicine aid to victims of terrorism;
- Telemedicine aid to civilian population in locations of military or anti-terrorist operations;
- Telemedicine provision for organizational-administrative and legal activity in the public health care system.



Telemedicine & eHealth Directory 2005

Telemedicine in Ukraine web-project

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Donetsk 83048
Ukraine

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Fax: +380 62 335 14 61

E-mail: avv@telemed.org.ua / avv25@skif.net

www.telemed.org.ua

General information about telemedicine, telemedical activities in Ukraine.

Articles, books and eLibrary (english versions and abstracts are available)

Theoretical and practice researches in telemedicine and eHealth

Catalogue of Ukrainian telemedical web-resources (about 90 links)

Best practice models for telemedicine

Teleconsultations between medical establishments and second-opinion

Distant Education for trauma surgeons, system "TeleTrauma"

Official page of "Ukrainian Journal of Telemedicine and Medical Telematics"



Telemedicine & eHealth Directory 2005

Telemedicine Support System for ISS and Mars Missions

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Russia

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www.telemed.ru

Partners:

- State Research Center of the Russian Federation
- "Institute for Biomedical Problems" of the Russian Academy of Sciences (IBMP)
- Mission Control Center
- Space Biomedical Center for Training and Research

Development of a telemedicine support system for the Russian node of the International Space Station (ISS). System integration with appropriate systems of other ISS participants and Russian terrestrial telemedicine network.

Development of medical support system telemedicine component for the manned mission to Mars.



Telemedicine & eHealth Directory 2005

Telepsychology and Telesexology: Video-Counseling

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47900 Rimini
Italy

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Tel: +39 3356300997 / +39 0541681110 (mobile)

E-mail: drronconi@psicologia-sessuologia.it

www.psicologia-sessuologia.it

To study the operative context for psychological counseling on-line in direct audio-video connection by Internet. A highly technological context, where one can identify with various environments and a multitude of settings. The experimental applications of telepsychology and telesexology are conceptualized like integrative tools of traditional, vis a vis, psychological approach. Are hypothesized applications of this new tool in to rehabilitation programs and to promote sexual, relational and health education, crisis intervention and management, emergency psychology, and in psychological treatments of anxiety disease by a behavioural-cognitive perspectives.

Finally, the author emphasises the need for well-founded scientific experimentation designed to evaluate the application outcomes of remote psychological video-counseling by UMTS.



Telemedicine & eHealth Directory 2005

Tele-Wound Care Management

1200 Hospital Bench
Trail, BC V1R 4M1
Canada

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Fax: +1 250 364 3422

E-mail: margarita.loyola@interiorhealth.ca

E-mail: wendy.grywacheski@interiorhealth.ca

www.interiorhealth.ca

To ensure the best possible care to patients with wounds, this project will be implementing an innovative use of a digital camera system and software – “Pixalere”. This new state of the art method of reviewing wounds would enable the Enterostomal Therapy (ET) nurse to provide expert and timely assistance with difficult to heal wounds to the home and community nurse.

The home & community nurse takes images of the wound using a digital camera. The pictures are sent to the ET nurse instantly through a wireless network, observations and other information can also be sent.

The ET nurse processes the wound image, observations, and other information; diagnoses the state of the wound; and recommends a treatment plan.

High-quality photographs can be a visual confirmation of the state of a wound and can serve as an extremely useful adjunct in monitoring response to therapy in large wounds that tend to heal slowly. Photographs can also serve as teaching material for health care professionals.



Telemedicine & eHealth Directory 2005

The Litmed2 Project

c/o TietoEnator Public & Healthcare AB
Box 4557
203 20 Malmö
Sweden

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Tel: +46 40 6644252

Fax: +46 40 302448

E-mail: lars-olof.almquist@tietoenator.com

www.litmed.net

The Litmed2 project was initiated at the end of 2002 and is a business oriented health care project within the discipline of pathology.

The vision of the project has been to be part of a long-term development process of e-Health development in the Baltic Sea Area.

Some important goals for the project have been:

- To establish a well-functioning IT support for the pathology department in Kaunas, Lithuania, with the possibility of handling digital images and using distance consultation.
- Encourage the possibility for Swedish IT-businesses within health care to demonstrate their products and services during the project.
- To initiate a network between pathologists in the Baltic Sea Area.
- To develop useful telemedicine support for the pathology departments.

Within the project a computerized pathology information system, Sympathy, has been installed and adapted for Lithuanian conditions.

Two software tools have been developed for telepathology use: Medipas, which is an interactive communication and image handling software and WEB Service for pathology which is a tool to assist pathology doctor in estimation of Labeling Index (LI) in Immunohistochemical images.



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TI - jPACS operating system-independent platform for medical picture-processing-methods

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TI - jPACS is a radio-logical Workstation with distinctive Teleradiology functions. The basis of the system is a software, that can receive digital medical pictures per DICOM or proprietary interfaces, processes and send it. The visualization functions correspond to those of a classic Radiological –Workstation. The speciality of TI - jPACS is his/its free-availability, platform-independence and additional expandable-ness over a Plug In - mechanism. This can be existing applications that are integrated into the user-interface of the system or new modules, which have interfaces to all components of the basis-system.

To presently available extension elements belong:

DICOM Send that accomplishes data exchange over standard network protocols (OSI and TCP/IP, DIMSE);

DICOM Database Explorer with the concrete conversion of the DIMSE- C services from SOP classes: Verification (C-Echo), Query /Retrieve (C-Find, C-Get and C-Move);

DICOM-CD/DVD Creator that by the creation of a DICOM-DIR file, employment of a professional platform-independent DICOM -Viewers and very high user friendliness during the CD/DVD creation process is characterized in particular;

DICOM Format- Converter for JPEG; BMP, TIF, AVI, DICOMZIP formats;

E-Mail with a DICOM file invariably, as the JPEG file, when DICOMZIP-file or as AVI-file can be sent;

Secure - E- Mail with S/MIME (RFC2311, RFC2312), with an own key and certificate administration (after x509 v.3 standard) and an address book that linked with it.



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Trans-European Network for Positron Emission Tomography (TENPET)

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TENPET aims to evaluate the provision of integrated teleconsultation and computer supported cooperative work services for clinical PET in Europe at its current stage, as it is a multi-center project financially supported by the European Commission (Information Society, eTEN Program). It addresses technological challenges by linking PET Centers and developing supporting services that permit remote consultation between professionals in the field.

The TENPET platform runs on Win2000/NT/XP systems and incorporates advanced techniques for image visualization, analysis and fusion, as well as for interactive communication and message handling for off-line communications.

The Technical University of Madrid, Spain, offers expertise on telecommunication issues. Four PET Centres (Centro PET Complutense, Madrid; Fundación Instituto Valenciano de Oncología, Spain; Deutsches Krebsforschungszentrum, Heidelberg, Germany; Centre Hospitalier Universitaire Morvan, Brest, France) participate to the pilot system trials.

User-filled questionnaires are used for the performance evaluation of the system, addressing the frequency, duration and efficacy of the teleconsultations, the image quality and user satisfaction, etc.

TENPET promotes the co-operation and improved communication between PET practitioners in isolation or on mobile units, offering options for second opinion and training or remote consultation of patient data in case they are away from their Centre.

It is expected that TENPET will have a significant impact in the development of new skills by PET professionals and will support the establishment of peripheral PET units.



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Trends of telemedicine development in Lithuania

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Partners:

- TietoEnator Trigon AB
- St.Erik Eye Hospital (Stockholm)
- Kaunas University of Medicine
- Kaunas University of Technology
- Euromed Networks AB
- Health and Medical Care Committee, Stockholm County Council.

Teleconsultations and second opinion. The telemedicine network for clinical practice with main attention paid towards patient and physician next to him is used.

Distance education. The use of existing distance education center in Kaunas University of Medicine allows the distant education of medical staff in Lithuania. Videlectures between foreign countries and different regions of Lithuania take place (to Klaipeda, Panevezys, Siauliai).

The courses of distant education ISDN and Internet based for general practitioners are under preparation. The live demonstrations from surgery and consultations will be used beside the usual teaching material (text, images).

Creation of international databases, information exchange and research. Research based on clinical practice and provided both on medical and technological sides. Research areas are ophthalmology, otorhinolaryngology, pathology, dermatology, cardiology, obstetrics-gynecology. Teleconsultations and image processing with ophthalmologists from Lund University via Internet take place.

**Telemedicine & eHealth Directory 2005****VEMH – Virtual Euro-Mediterranean Hospital**

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- ASU and NIFRT, Cairo, Egypt
- ANDS, Algiers, Algeria
- FMPC, Casablanca, Morocco
- FM, Tunis, Tunisia
- ISTEM, Istanbul, Turkey
- NCSR, Athens, Greece
- UCY, Cyprus
- ISMETT, Palermo, Italy
- Charité, Berlin, Germany
- and new partners from Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovakia, Slovenia, as well as Bulgaria, Romania and Turkey

In recent years different Euro-Mediterranean eHealth and telemedicine projects have demonstrated the need for integration to overcome the digital divide. The Virtual Euro-Mediterranean Hospital (VEMH) aims to facilitate the interconnection of various services through real integration taking into account also the social, human and cultural dimensions. VEMH will provide a heterogeneous integrated platform consisting of a satellite link and a terrestrial link for the application of various medical services such as medical e-learning, real-time telemedicine and medical assistance. Fellowship programs for the training of young medical doctors will be implemented allowing to gain experience in a multidisciplinary and multicultural environment. The methodologies of the VEMH are medical-needs driven instead of technology-driven. By the integration of different telemedical solutions in one platform many different medical services shall be supported. The VEMH provides new management tools for virtual medical communities and allows management of clinical outcomes for improved implementation of evidence-based medicine.

**Telemedicine & eHealth Directory 2005****WardInHand**

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Partners:

- TXT e-solutions (IT)
- Relational Technologies (GR)
- BMT (UK)
- Department of Informatics and Information Sciences - University of Genoa (IT)
- Department of Endocrinology and Metabolism - University of Genoa (IT)
- Corporació Sanitària Clinic - Barcelona (E)
- Staedtische Kliniken Offenbach (D)

WardInHand is an advanced, yet easy to use secure mobile application dedicated to supporting healthcare professionals in their day-by-day ward activities.

It allows users to add, edit and display patient Information taking advantage of wireless connectivity and natural human computer interfaces including pen based and speech recognition technologies, replacing current procedures based on manuscript and transmission of data.

WardInHand is also a workflow management system (WMS). It keeps track of actions planned by users (such as tests and prescriptions) dispatching ward-based tasks to the involved resources. The WMS is configurable to provide appropriate guidance in scheduling and coordinating actions according to Hospital and Ward based processes.

Key Features include:

- State-of-the-art technologies incorporating a web based interface designed for use on handheld devices (under Microsoft PocketPC and Linux), and a wireless network infrastructure combining both handheld and Desktop devices that can be used simultaneously;
- Efficient and user friendly data entry and editing facilities utilising new technologies in pen based and speech recognition (English, German, Italian, Spanish) functionality for handheld devices;
- Ability to utilise existing Patient Data from Hospital legacy systems and to export all WardInHand Patient Information back to a legacy system once a patients Care Pathway (and relevant episodes of care) has been completed;
- The incorporation of European IT standards for Security regarding the encryption and transmission of all data over a wireless network (using Secure Socket Layers);
- Offline workflow design tools to edit, review and implement Hospital and Ward based workflow processes.

**Telemedicine & eHealth Directory 2005****Web4health**

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- G. Palme, psychotherapist, Stockholm, Sweden
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- J. Brammer, Netdokter Copenhagen, Denmark
- Omega Generation, Bologna, Italy

Development of a multilingual natural language question answering system for mental health and psychology. Psychotherapists from Sweden, Greece, Italy, Netherlands and Germany answered more than 700 questions related to common problems of psychology and psychiatry. These answers are included in a template based expert system using a natural language interface. This automated FAQ-system (Frequently asked questions) will give the user a set of appropriate answers related to an individual question posted to the system. If no answer is yet available in the system an ask-the-expert service is offered. These answers will be included in the database to optimize the content for future use. At the present time we have an English, German, Swedish, Greece and Italian webpage, but we are open to future collaboration with partners in other language regions. The project was funded by the European Union (eContent program) and is limited until June 2004. We hope to be able to continue the project after the official funding period. Actually more than 800000 hits per month demonstrate the worldwide interest of the internet users. Project page at www.web4health.info/KOM2002.



World Health Organization



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Zambia Telehealth Project

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Voluntary organization by membership

Telehealth/telemedicine information exchange among health workers, information scientists, librarians, etc.