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Typology of Telemedicine Applications

The following applications are included in the main body of the report:

a) Tele-education

Indications are that post-graduate education for healthcare professionals, in particular physicians, will be one the major application in hospital environments. A tight work schedule combined with mobility issues and improved technology will facilitate this kind of application.

b) Tele-staff meeting

'Tele-meetings' of healthcare actors two or more different locations have relative success where it supports existing partnerships or networks. This is not necessarily only over long distances; in metropolitan areas time and mobility pressures are also present, stimulating the development of this kind of service.

c) Tele-consultation

This is particularly useful for seeking second opinions from colleagues for complex pathologies, especially those with low frequencies of occurrence. Inhibiting factors include the lack of a reimbursement scheme, an absence of the required legal framework, and a reluctance to make a judgement without the physical presence of the patient.

d) Tele-emergency services

Although essentially the same technology as already mentioned, tele-emergency services are used in crisis situations to get access to remote expertise. This will support decision-making, for example, in initial urgent evaluation of patients, in triage decisions and pre-transfer arrangements. On a practical level, this could include sending CT scans to the emergency centre before a decision to transfer a patient is made.

e) Tele-diagnosis

This refers to those applications where a medical examination is done by or with the involvement of a physician who is physically located at a distance. For example, tele-electrocardiograms or tele-endoscopy.

f) Tele-surgery

This has been demonstrated recently a number of times, in relation to specific world news events like the Gulf War. It is only used intensively in specific circumstances such as battlefield operations. As hospitals and highly trained physicians are now accessible to most people, there is a limited general application for tele-surgery.

g) Computer-assisted surgery

Virtual visualisation of the area of the body to be operated on, and tele-consultation of experts during surgery are the main applications in this area of tele-medicine.

h) Tele-screening

Information and communications technology can support large-scale screening programs where diagnosis expertise and equipment is concentrated in just a few small centres. For example, in the screening of diabetes patients for early detection of diabetic retinopathy and glaucoma.

Hospital Information Systems

Company	Country of origin	Region	Market leaders								Patient Data Systems Software Developer / Supplier	Financial Data Systems Software Developer / Supplier	Integrated Systems Software Developer / Supplier	System Integrator	Hardware Manufacturer	TOTAL
			UK	FR	IT	BLUX	SCAND	G	NL	SP						
ACT Medisys	UK	Europe									x	x	x	x		3
AT&T (UK)	UK	Europe	x									x	x	x	x	3
Atwork International	US	US									x	x	x		3	
Bayer	US	US									x	x	x		3	
Bull	France	Europe		x	x	x					x	x	x	x	x	3
Cap Gemini	France	Europe		x			x				x	x	x	x		3
Cerner	US	US									x	x	x		3	
Compaq	US	US			x	x	x	x	x	x				x	x	0
Data General Corporation	US	US									x	x	x	x		3
Data-Plan	Germany	Europe						x			x					1
DP Informatica	Italy	Europe									x	x				2
EDS	US	US									x	x	x	x		3
Enator Medical	Sweden	Europe					x				x	x	x			3
HBOC	US	US	x								x	x	x			3
Hewlett-Packard	US	US		x	x		x		x	x	x			x	x	0
Hiscom BV	The Netherlands	Europe							x		x	x	x			3
IASI I	Italy	Europe									x	x				2
IBM Corporation	US	US	x	x	x	x	x	x	x	x	x	x	x	x	x	3
ICL	UK	Europe							x	x	x			x	x	3
INFOMEDICA	Sweden	Europe					x				x	x	x			3
Kommutedata I-S	unprecised	unprecised									x	x	x			3
Laufenberg	Germany	Europe									x	x				2
MDIS Group	UK	Europe									x	x	x	x	x	3
Olivetti	Italy	Europe			x						x	x	x	x	x	3
OLSY UK	UK	Europe									x	x	x	x	x	3
Philips	The Netherlands	Europe												x	x	0
Pluss	unprecised	unprecised									x	x	x			3
PPG Hellige	Germany	Europe						x			x	x	x			3
RocCare	The Netherlands	Europe							x		x	x				2
SAP	Germany	Europe						x		x	x		x			1
Sema Group	UK	Europe	x			x							x	x		1
Siemens Nixdorf	Germany	Europe	x			x		x		x	x		x	x	x	3
SMS	US	US	x	x	x	x		x	x	x	x	x	x	x		3
Sun Microsystems	US	US													x	0
SVIM Service	unprecised	unprecised									x	x	x			3
Unisys	US	US					x				x	x	x	x	x	1
											29	28	27	18	13	

Source: Frost & Sullivan, 1998

PACS and Teleradiology

Company	Origin		EntPACS	DepPACS	Teleradiology	TOTAL
	Country	Region				
Agfa-Gevaert	Germany	Europe	*	*		2
Digit Image	Switzerland	Europe		*	*	2
EMED/Raytheon E-Systems	US	North America		*	*	2
Gammex	US	North America			*	1
GE Medical Systems	US	North America	*	*	*	3
IBM	US	North America	*	*	*	3
Image Devices	Germany	Europe	*	*		2
Imation	US	North America	*	*	*	3
Intech	US	North America	*	*	*	3
Kodak Health Imaging	US	North America	*	*	*	3
Lanmark	US	North America		*	*	2
Laser Lines	UK	Europe		*	*	2
MarkCare Medical Systems	US	North America	*	*	*	3
Medasys Digital Systems	France	Europe		*	*	2
Philips Medical Systems	The Netherlands	Europe	*	*	*	3
Rogan Medical Systems	The Netherlands	Europe		*	*	2
Sectra-Imtec	Sweden	Europe	*	*	*	3
Siemens	Germany	Europe	*	*	*	3
Sterling Diagnostic Imaging	US	North America	*	*	*	3
Vepro	Germany	Europe	*	*	*	3
TOTAL			13	19	18	

Source: Frost & Sullivan, 1998

Laboratory Information Systems

BELGIUM	FRANCE	GERMANY	ITALY	THE NETHERLANDS	SPAIN	THE U.K.
ACC-Intec Cortex Idalab IMICOS MBC MIPS Multihouse - SMS PGP SBIM	Airdel Biosystem Informatique Bull Santé/Saric Codat Computer et Service Cabinet Richard Cegi-Labo (Infoplus) Eurodim Hexaflux Megabus Technidata (Bayer) SMS - Société de Maintenance Système TGS Group	SEV Dorner Eppendorf Frey Laufenberg & Co KG Gellrich GmbH IMP Computer Systeme Labor Daten Systeme GmbH (LDS) Modular Computer & Software Systeme AG (MCS) Medat Computer Systeme MTS	Olivetti Finsiel TESI 3.I.D Informatica Unitech Dasit Sisge Informatica SRL SIS-Chorus (Sistemintegratisantari)	Bazis-HISCOM Philips Nederland	Boehringer Mannheim Spain Izasa Systelab	ACT-Medisys Berkeley Computer Services Cerner Citation Fraser-Williams Sunquest CDS Group William Woodward Associates

Source: Financial Times Healthcare, 1996

	Applications (in Telemedicine)								
	Telepathology	Conferencing	Industrial	Scientific	Developmental medical use	Data Organisation	Education	Consult & clinical diagnosis	R&D
Bildanalyssystem AB	x	x					x		
Carl Zeiss	x								
Data General Corporation									
Marquette Hellige GmbH									
Oxford Instruments pic									
Picture Tel		x (videoconf.)							
Siemens AG									
Tandberg Telecom AS		x (videoconf.)					x	x	x
Varian Associates Inc			x	x	x	x			
WorldCare UK Telemedicine									

	Applications (in Telemedicine)								
	Databases	Picture archiving	Communications systems	Image processing	Interfaces for multiparameter patient telemetry monitoring	Monitor	HIS	Software for telemedicine services	Videomicroscopy
Bildanalyssystem AB	x								
Carl Zeiss				x					x
Data General Corporation		x	x						
Marquette Hellige GmbH				x	x				
Oxford Instrument pic						x (foetal m.)			
Picture Tel									
Siemens AG		x	x				x		
Tandberg Telecom AS									
Varian Associates Inc									
WorldCare UK Telemedicine								x	

Source: Frost & Sullivan, 1998

Homecare and Alternate Site Monitoring Systems

Company	Country	Region	Heart	Blood Glucose	Blood Pressure	Ob. Sleep Apnea	Pulse Oximetry	Thermo	Enuresis Alarms	
AL Products	Denmark	Europe							x	1
American Home Products	US	US						x		1
Andos	Germany	Europe					x			1
aRCHiMeD	N/A	N/A			x					1
Aremco	US	US							x	1
Artsana	Italy	Europe			x			x		2
Astra Tech AB	Sweden	Europe						x		1
Astrid Leisner	Denmark	Europe							x	1
Astric Medical	UK	Europe							x	1
Bayer Diagnostics	Germany	Europe		x						1
Becton-Dickinson	Switzerland	Europe		x				x		2
Boehringer Mannheim	Germany	Europe	x	x	x			x		4
B. Braun Melsungen	Germany	Europe						x		1
Compumedics	Australia	Oceania				x				1
Cosmed	Italy	Europe	x							1
Critikon (Johnson & Johnson)	Germany	Europe					x			1
Geraberger Thermometerwerke	Germany	Europe						x		1
Hartmann Larochette	Germany	Europe			x			x		2
Healthdyne International	Belgium	Europe				x				1
Hewlett-Packard Italiana	Italy	Europe	x							1
Hollister	Austria	Europe							x	1
Hutchings Healthcare	UK	Europe			x			x		2
Innocept Medizintechnik	Germany	Europe							x	1
Erich Jaegar	N/A	N/A				x				1
Johnson & Johnson	US	US	x	x						2
Kontron Instruments	Germany	Europe					x			1
Laboratoires Colson	France	Europe			x					1
Laboratoires Hartmann	France	Europe			x			x		2
Laboratoires Pharmygiènes	N/A	N/A						x		1
LifeScan Europe	France	Europe		x						1
London Enuresis Clinic	UK	Europe							x	1
MAP	Germany	Europe				x				1
Marquette Hellige	Germany	Europe	x							1
Medic-Eschmann	Germany	Europe							x	1
MediSense Abbott.	UK	Europe		x						1
Medtronic	US	US				x				1
Menarini Diagnostics	Italy	Europe		x						1
Nais	Germany	Europe			x					1
Nellcor Puritan Bennett	The Netherlands	Europe				x	x			2
NH Eastwood & Sons	UK	Europe							x	1
Nonin	US	US					x			1
Nottigham Rehab	UK	Europe							x	1
Novamatrix Medical Systems	US	US					x			1
Ohmeda UK	UK	Europe					x			1
Omron Healthcare GmbH	Austria	Europe			x			x		2
Oxford Instruments	UK	Europe	x		x					2
Palco Laboratories	US	US					x			1
pneuPAC	UK	Europe					x			1
Pulmolink	UK	Europe					x			1
ResMed UK	UK	Europe				x				1
Respironics	US	US				x				1
Schiller Dresden	Germany	Europe	x							1
SensorMedics	The Netherlands	Europe				x				1
Sherwood-Davis & Geck	Switzerland	Europe						x		1
Société Bourgeois Dufour	France	Europe							x	1
Société Nemara	N/A	N/A							x	1
Spacelabs Medical	US	US	x		x					2
Stimotron Med. Gerate	Germany	Europe				x				1
Synetics Sleep	N/A	N/A	x	x		x				3
Welch Allyn	N/A	N/A			x					1
GH Zeal Group	UK	Europe						x		1
Total			9	8	12	11	10	14	12	

Source: Frost & Sullivan, 1998

Pharmaceutical Companies Sites on the WEB

A single search revealed 3,967 hits relating to Pharmaceuticals including:

- 3M Pharmaceuticals
- Alliance Pharmaceutical Corp.
- Alltracel Pharmaceuticals plc
- Alva-Amco Pharmacal inc
- Angiotech Pharmaceuticals (<http://www.angiotech.com>)
- Aronex Pharmaceuticals Inc. (<http://www.aronex-pharm.com/index1.html>)
- Bachem AG, Manufacturer of bluk peptides
- .Bachem Califomia Inc
- Bachem Bioscience Inc., Philadelphia.
- Bayer Consumer Care
- Bayer HealthVillage
- Bayer Pharmaceutical Division - North America
- Bertek Pharmaccuticals Inc.
- BFG Pharmaceuticals
- Byk Gulden Online
- Chugai Pharma Europe Ltd
- coreynahman.com - pharmaceutical news and information
- DuPont Pharmaceuticals Co. (<http://www.coumadin.com/research/index.htm>)
- Eli Lilly (<http://www.lilly.com>)
- Glaxo (<http://www.glaxowelcome.co.uk/>)
- Glaxo Welcome Global Home Page
- Glaxo Welcome Österreich
- Hoechst Marion Roussel
- ICI India Ltd - pharmaceutical business (<http://www.bestindia.com/ici>)
- Interneuron Pharmaceuticals Inc. (<http://www.intemeuron.com>)
- Kos Pharmaceuticals (<http://www.kospharm.com/contact.htm>)
- Kramer Laboratories Inc.

- Ligand Pharmaceuticals (<http://www.ligand.com>)
 - Maxim Pharmaceuticals
 - Mcickle & Associates (<http://www.enter.net/-mcmickle>)
 - Medisan Pharmaceuticals
 - Merek & Co. Inc.
 - Muelier Sports Medicine (<http://muellersportsmed.com/sportcarepharmaceuticals.htrn>)
 - Mylan Laboratories Inc.
 - Parke-Davis
 - PathoGenesis Corp.
 - R&D Laboratories Inc: renal nutritionals, vitamins and pharmaceuticals
 - RocheWeb
 - Roxane Laboratories Inc.
 - Sanphar
 - Schwarz Pharma
 - Somerset Pharmaceutical
 - SONUS Pharmaceuticals (<http://www.sonuspharma.com/>)
 - Switched Systems Pharmaceuticals Inc. (<http://www.mscm.com>)
 - Valley Compounding (<http://www.pharmacy.com>)
 - Vertex Pharmaceuticals Inc.
 - Wampole Canada Online
 - Watson Laboratories
 - Wiler Fine Chemicals (<http://www.wilerchemicals.com>)
-

Biomedical websites

- Action Research: Medical research charity
- Advisory Committee on NHS Consultants Distinction Awards
- Association of Surgeons in Training
- Benefits Agency - UK
- Biomednet: Internet community for biological and medical researchers
- *British Medical Journal* Classified Job Advertisements
- British Standards Institution
- CCTA Government Information Service - UK
- Chemical Safety Information - University of Oxford
- Communicable Disease Surveillance Centre - Public Health Laboratory Service
- Cyberounds: Virtual medical conferences
- Dentanet: Dental Practice Board of England and Wales
- UK Department of the Environment, Transport and the Regions
- DERWeb: Dental education
- Doctors.Net.UK: 'The website for Doctors - by Doctors'
- Edinburgh Engineering Virtual Library
- Edinburgh Orthopaedic Trauma Unit - profile
- Emergency War Surgery Handbook
- Edinburgh GPs - listing
- Global Health Network: Gateway to medicine on the Net
- King's Fund
- Multilingual glossary of medical terms: Nine languages from the European Commission
- HandWorld: Hand surgery
- Health on the Net Foundation - Switzerland
- Health and Safety Executive - UK
- HEBSWeb: Health Education Board for Scotland - promoting health in Scotland
- Houses of Parliament - London
- HWB Foundation: Medical database collection foundation
- Human Genetics Advisory Commission
- IndiaOrth: Indian orthopaedic website and mailing list
- Medical Dictionary: On-line dictionary from Merriam-Webster
- Medical Education Ring: Webring collection of education sites world-wide
- Medical World Search Site: Gateway to medicine on the Net
- National Blood Transfusion Service - UK
- National Council for Hospice and Specialist Palliative Care Services
- Newly Approved Drug Therapies: Regularly updated listing of drugs recently approved by the FDA for use in the US
- The Node: Helps with informed decisions about learning technologies by organising and contextualising information, critical analyses and the experiences of colleagues
- Northern Ireland Surgical Training: Northern Ireland surgical trainees website

- Learning Technology Dissemination Initiative: Enhancing learning and teaching with technology
- National Osteoporosis Society
- National Radiological Protection Board
- Office for National Statistics: UK government statistics on-line
- Official Documents: UK Stationery Office
- Orthopaedic Registrar Summary Collection - Australia
- Past Examination Papers, RCSED - Donald Ferrier Ltd
- Patient Information Publications: Helps nonmedical people and health professionals find on-line information about health issues
- Patient Support Trust: A non-profit-making body formed to help improve patient health and welfare
- Periodic Table - elements
- Talisman: Established to support teaching and learning in Scottish metropolitan area networks
- Teaching and Learning Technology Support Centre: Guidance and support to UK higher education to integrate technology into teaching and learning
- Trauma.org: Care of the injured
- Trauma.org Moulage: Interactive moulage scenarios
- RDInfo: Index of sources of health-related funding and training opportunities, University of Leeds
- SCRAN: Scottish Cultural Digital Heart
- Search CME - US: Offering CME information on more than 5,000 medical conferences
- SHOW - Scottish Health on the Web
- Sports Medicine for Doctors: Distance-learning course from the University of Bath
- SUMIT: Training company based in Oxford aimed at providing highly interactive training courses for medical staff.
- Questions To Ask Your Doctor Before You Have Surgery: Patient's guide
- UK Register of Expert Witnesses
- Uronet: Educational service for urologists on prostate cancer
- Use of MANS: Exploration of using metropolitan area networks (MANS) in higher education
- Wheelless Textbook of Orthopaedics and Trauma: Hyperlinked textbook of orthopaedics and trauma
- Welcome Trust: Medical research charity
- Women in Surgical Training - WIST
- WorldOrtho - Sydney, Australia: Large collection of teaching orthopaedic and sports medicine material
- Wound Healing Research Unit - University of Wales College of Medicine.

Medical informatic resources and medically oriented search engines

- Omni
- RCGP Primary Care Guidelines - SIGNet
- UKMedW3
- The Medical Matrix
- Medical World Search site
- HealthAtoZ

Medical websites

- General Practitioner's mailing list – GPUK
- Health on the Net Foundation
- World Health Organisation
- PubMed – National Library of Medicine's Medline search service
- MedFinder – administered by Columbia University
- Nursing and Healthcare Resources on the Net
- Patient information publications and others journals

List released by the Financial Times

USA E-Health companies providing content and services

	URL
Accent Health	http://www.accenthealth.com
America's Doctor Online	http://www.americasdoctor.com
Health Oasis	http://www.mayohealth.org
InteliHealth	http://www.intelihealth.com
ThriveOnline	http://www.thriveonline.com
HealthGate	http://www.healthgate.com
Physician's Online	http://www.mydoctor.com

Government Agency Health related websites (EU15-USA-Japan)

Country	Name of Organisation	URL of Organisation
Austria	Bundesministerium für Umwelt, Jugend und Familie	http://www.bmu.gv.at/
Austria	Federal Ministry for Labour, Health and Social Affairs	http://www.bmags.gv.at/
Belgium	Division of Medical Rescue Services	http://www.health.fgov.be/en/100/100auk.htm
Belgium	Institute of Hygiene and Epidemiology	http://belgium.fgov.be/
Belgium	Ministerie van Sociale Zaken, Volksgezondheid en Leefmilieu (Ministere des Affaires Sociales, de la Sante Publique et de l'Environnement)	http://socialsecurity.fgov.be/
Denmark	Dansk Flygtningehjælp	http://www.drc.dk/
Denmark	Levnedsmiddelstyrelsen	http://www.lst.min.dk/
Denmark	Ministry of Health	http://www.sum.dk
Finland	National R & D Centre for Wealth and Health	http://www.stakes.fi/english/index.html
France	Ministère de la santé	http://www.sante.gouv.fr
France	Centre National de l'Equipe Hospitalier (CNEH)	http://www.cneh.fr/
Germany	Bundesministerium für Gesundheit	http://www.bmgesundheit.de/
Ireland	An Roinn Sláinte agus Leanaí - Department of Health & Children	http://www.doh.ie/welcome.htm
Italy	Dipartimento degli Alimenti e Nutrizione e della Sanità Pubblica Veterinaria	http://ministero.izs.it/
Italy	Istituto Superiore per la Prevenzione e Sicurezza del Lavoro (ISPESL)	http://www.ispesl.it/
Italy	Ministry of Health	http://www.sanita.it/
Italy	National Institute of Nutrition	http://inn.ingrm.it/
Japan	Ministry of Health and Welfare	http://www.mhw.go.jp
Japan	Ministry of Health and Welfare	http://www.ncc.go.jp/mhw/index.html
Luxembourg	Division de la Medecine Curative	http://www.santel.lu/MIN/dir_sante/med_cur.html
Luxembourg	Centre de Recherche Public de la Santé	http://www.crp-sante.lu/
Luxembourg	La Division de l' Inspection Sanitaire	http://www.santel.lu/MIN/dir_sante/insp_san.html
Luxembourg	La Division de la Médecine Scolaire	http://www.santel.lu/MIN/dir_sante/med_scol.html
Luxembourg	Luxembourg Health Server	http://www.santel.lu/
Luxembourg	SocialNet	http://www.socialnet.lu/home2.html
Netherlands	Ministerie van volksgezondheid, welzijn en sport (Ministry of health, welfare and sports)	http://www.minvws.nl/engzoek.asp
Netherlands	National Institute of Public Health and the Environment	http://www.rivm.nl/
Portugal	Ministry of Health	http://www.min-saude.pt/
Spain	Ministry of Health and Consumer Affairs	http://www.msc.es/
Sweden	The National Board of Forensic Medicine	http://www.rmv.se/rmveng.htm
United Kingdom	Brighton Health Care NHS Trust.	http://www.pavilion.co.uk/rsch/
United Kingdom	Charity Commission For England & Wales	http://www.charity-commission.gov.uk/
United Kingdom	Department of Health	http://www.open.gov.uk/index/.../doh/dhhome.htm
United Kingdom	Dorset Health Authority	http://www.dorset.swest.nhs.uk/
United Kingdom	Grampian Healthcare NHS Trust	http://www.ghc.org.uk/
United Kingdom	Health and Safety Executive	http://www.open.gov.uk/hse/hsehome.htm
United Kingdom	Medical Devices Agency (MDA)	http://www.open.gov.uk/mda/mdahome.htm
United Kingdom	Medical Research Council -	http://www.nimr.mrc.ac.uk/MRC/
United Kingdom	Medicines Control Agency	http://www.open.gov.uk/mca/mcahome.htm
United Kingdom	Newcastle Public Health Laboratory	http://www.phlsnorth.co.uk/
United Kingdom	North Wales Health Authority (NWA)	http://www.nwi.co.uk/nwha/nwha.htm
United States	Administration for Children and Families	http://www.acf.dhhs.gov/
United States	Administration on Aging	http://www.aoa.dhhs.gov/
United States	Agency for Toxic Substances and Disease Registry	http://atsdr1.atsdr.cdc.gov:8080/atsdrhome.html

Appendix S6

Content and community: Healthcare sites which provide health related information

Country	Name of Organisation	URL of Organisation
United States	Center for Disease Control	http://www.cdc.gov/
United States	Consumer Product Safety Commission	http://www.cpsc.gov/
United States	Department of Health and Human Services	http://www.os.dhhs.gov
United States	Food and Drug Administration (FDA)	http://www.fda.gov/fdahomepage.html
United States	Indian Health Service	http://www.tucson.ihs.gov/
United States	National Center for Food Safety and Applied Nutrition	http://vm.cfsan.fda.gov/list.html
United States	National Center for Toxicological Research	http://www.fda.gov/nctr/index.html
United States	National Institutes of Health (NIH)	http://www.nih.gov/
United States	Office of Environment, Safety, and Health	http://tis-hq.eh.doe.gov/
United States	Public Health Service (PHS)	http://phs.os.dhhs.gov/phs/phs.html
United States	Social Security Administration	http://www.ssa.gov/
United States	Substance Abuse and Mental Health Services	http://www.samhsa.gov/

Source: Cyber Policy Research Group, 1999

<http://www.cyprg.arizona.edu/>

**USA E-Health companies providing business- to- consumer services
(E-Pharmacies Sites)**

	URL
AARP	http://www.rpspharmacy.com/
Aliton's Pharmacy	http://www.alitons.com/
American Drug Stores	http://www.americandrugstores.com/
Click Pharmacy Online	http://www.clickpharmacy.com/
Creative Healthcare Solutions	http://www.creativehealth.com
CVS/Soma	http://www.soma.com
Drkoop.com	http://www.drkoop.com
Drugemporium	http://www.drugemporium.com/
Drugstore.com	http://www.drugstore.com
Eckerd.com	http://www.eckerd.com
Eprescribe	http://www.eprescribe.com/
Kinetra	http://www.kinetra.com
MD Healthline	http://www.mdhealthline.com/
Med Healthline	http://medhealth.8m.com/
More.com	http://www.more.com
MyWebDr.com	http://www.mywebdr.com/
Osborn Drugs, Inc	http://www.osbornedrugs.com/
Paraformeplus.com	http://www.paraformeplus.com/
Pharmacy2u	http://www.pharmacy2u.co.uk/
Pharnet	http://www.pharnet.com/
Pillbox	http://www.thepillbox.com/
PlanetRX	http://www.planetrx.com
Voshell's Pharmacy	http://www.voshellsparmacy.com/
YourPharmacy.com	http://www.yourpharmacy.com

Connectivity companies

USA

AHT	http://www.aht.com
Careinsite (medical Manager)	http://www.careinsite.com
MD Consult	http://www.mdconsult.com
Healtheon	http://www.healtheon.com
HealthProvider.com	http://www.healthleaders.com
Kinetra	http://www.kinetra.com
Medcast	http://www.medcast.com
One Health Network Co.	http://www.onhealth.com
PDR.net	http://www.pdr.net
Vital Works	http://www.vitalworks.com/
WebMD	http://www.webmd.com

Europe

Belgian Medcare (Belgium)	http://www.belgianmedcare.com/
Medcost (France)	http://www.medcost.fr
Meddokter (Denmark)	http://www.meddokter.dk
Medimedianet.be (Belgium)	http://www.medimedianet.be/
VitaGo (Italy)	http://www.vitago.it/
VitaGo (France)	http://www.vitago.fr/
VitaGo (UK)	http://www.vitago.co.uk/

USA E-Health companies providing networks or software

@outcome	http://medical-outcomes.com
AHT Corporation	http://www.aht.com
Caresoft	http://www.caresoft.com
Claimsnet.com	http://www.claimsnet.com
HealthMagic	http://www.healthmagic.com
MedicaLogic	http://www.medicalogic.com
PointShare	http://www.hkn.com

Health Cards

		Origin		IC Manufacturer	Smart Card Manufacturer	Terminal Manufacturer	Smart Card Integrator	Smart Card Software (OS, applications, access)
		Country	Region					
1	3GI	US	North America				x	x
2	Advanced Card Systems	Hong-Kong	Asia			x		x
3	Advanced Logic Corporation	N/A	N/A	x				
4	Aladdin Smartcard Environment (ASE)	US	North America					x
5	Amazing Controls	US	North America		x	x	x	
6	Amdahl SmartCard Group	Canada	North America				x	x
7	AMMI (American Microdevice Manufacturing, Inc.)	US	North America		x			x
8	Amphenol-Tuchel Electronics	N/A	N/A			x		
9	AND Identification	The Netherlands	Europe			x	x	
10	Atmel	US	North America	x				
11	Autostar	Singapore	Asia				x	
12	Basic Card	Germany	Europe					x
13	BGS Smartcard Systems	Austria	Europe				x	
14	Bull CP8	France	Europe		x	x	x	
15	Cardlogix	US	North America		x			
16	CryptTEC	US	North America					x
17	CSI (Card Services International)	Ireland	Europe				x	
18	CyberMark	US	North America				x	
19	Dallas Semiconductor	US	North America	x				
20	De la Rue	UK	Europe			x	x	
21	Digicard	Austria	Europe		x			
22	Dong Sung Inforcomm (DSI)	N/A	N/A					x
23	ELEA CardWare	France	Europe			x		x
24	Epsilon Electronics	Norway	Europe				x	
25	Fischer International	US	North America			x		
26	Gemplus	France	Europe		x	x		
27	General Information Systems (GIS)	UK	Europe			x		
28	Giesecke & Devrient	UK	Europe		x	x	x	
29	Helwett-Packard	US	North America			x		x
30	Hitachi Semiconductor (US), Hitachi (Europe)	US	North America	x				
31	Hypercom	US	North America			x		
32	IBM Smart Cards	US	North America		x	x	x	
33	IC One	US	North America				x	
34	ICC Solutions	UK	Europe					x
35	Ingenico	France	Europe			x		
36	Innovonics	US	North America			x		
37	Inside Technologies	France	Europe	x				
38	Integri	Belgium	Europe					x
39	Iris Technologies	Malaysia	Asia		x			
40	KeyCorp Electronic Payment Systems	Australia	Oceania			x		
41	LeapFrog	US	North America				x	
42	Litronic	US	North America			x		x
43	Marconi Communications	UK	Europe				x	
44	Microchip	US	North America	x				
45	Micromodule	Singapore	Asia		x			
46	Microsoft	US	North America					x
47	Motorola	US	North America	x	x			x
48	Muehlbauer	Germany	Europe			x		

Health Cards

	Origin		IC Manufacturer	Smart Card Manufacturer	Terminal Manufacturer	Smart Card Integrator	Smart Card Software (OS, applications, access)	
	Country	Region						
49	MUSCLE (Movement for the Use of Smart Cards in a Linux Environment)	N/A	N/A			x		
50	NBS Technologies Inc.	US	North America	x	x	x		
51	NURI Information & Communication	Korea	Asia		x			
52	Oberthur Card Systems (merger of Oberthur Smart Cards & De La Rue Card System)	France	Europe	x				
53	Orga	Germany	Europe	x	x	x		
54	Philips	The Netherlands	Europe	x				
55	Protekila	Turkey	Europe		x			
56	Racom Systems	US	North America			x		
57	Samsung Electronics	Korea	Asia	x	x			
58	Schlumberger	France	Europe		x	x		
59	SCM Microsystems	US	North America		x		x	
60	SGS-Thomson Microelectronics	US	North America	x				
61	Siemens Semiconductor (New Name: Infineon technologies)	Germany	Europe	x				
62	SmartMove	New Zealand	Oceania		x	x		
63	Spyrus	US	North America			x		
64	The Card Explorer	N/A	N/A				x	
65	Transmo Citycard	UK	Europe			x		
66	Trintech	Ireland	Europe		x			
67	Tritheim	US	North America		x			
68	VeriFone	US	North America		x	x		
69	Worldtronix	N/A	N/A		x			
70	Xicor	US	North America	x				
71	ZeitControl CardSystems	Germany	Europe			x		
TOTAL				12	17	30	25	17

Source: <http://www.dice.ucl.ac.be/crypto/card.html>



TOTAL
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HIST key-information

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Arnavitsi T.N., Eysenbach G., Woodall J.	Mednet '99 Heidelberg	The University of Birmingham	1999
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BJHC	HC 99 Conference	BJHC	1999
Bloom B., Iannacone R.	Internet availability of Prescription Pharmaceuticals	ACP-ASIM Sep 99	1999
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Brown M.S.	Industry Information Trends	Caring 16(12)	1997
CAEHR	Towards an Electronic Health Record in Europe '99	CAEHR	1999
Center for Sundheds-telematik	MedCom - det danske sundhedsdatanet	Sundhedsministeriet	1999
CNEH	Santé et nouvelles technologies de l'information et de la communication: Internet, RSS et Télémedecine	Technologie Santé	1999
CoCo Project Team	CoCo Project Midterm Booklet	DG XIII-C-4	1999
Computer Economics Inc.	E-Business Practices Benchmark	Computer Economics Inc.	1997
Cook B.	Do we need this Survey ?	Modern Physician	1999
Crum P., Crum T.	Survey Report: Information Technology Usage on RIS	Exec Housekeep Today 18(7)	1998
Cyber Dialogue	Ethics Survey of Consumer Attitudes about Health Web Sites	Cyber Dialogue	1998
Danish Center for Health Telematics	MedCom - the danish healthcare data network towards the year 2000	Ministry of Health	2000
Danish Ministry of Health	Health Care in Denmark	Ministry of Health	1998
Danish Ministry of Health	The Danish Health Care Sector	Nyt Nordisk Arnold Busck	1997
Danish Ministry of Health	The Danish Health Care Sector	Ministry of Health	1998
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Deloitte & Touche LLP	US Hospitals and the Future of Health Care	Deloitte & Touche	1998
Deloitte & Touche LLP & VHA	1999 Environmental Assessment - Rising to the challenge of a New Century	Deloitte & Touche LLP & VHA	1996
Deloitte Consulting Group	Global CIO Survey	Deloitte & Touche	1999
Deloitte Research	The emergence of the E-Health Consumer	Deloitte Research	1998
Dental Practice Board	Dental Computer Survey	Dental Practice Board (UK)	1997
Department of Veterans Affairs	VISTA - Veterans Health Information Systems and Technology Architecture	Department of Veterans Affairs	1999
Direction des Hôpitaux	L'informatique hospitalière en 1996	Ministère de l'emploi et de la solidarité	1998
Direction des Hôpitaux	Télémedecine en médecine périnatale	Ministère de l'emploi et de la solidarité	1998
Direction des Hôpitaux	De la télémedecine aux réseaux de soins	Ministère de l'emploi et de la Solidarité	1997
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Frost & Sullivan	European Medical Image Management - Systems, Competitive Benchmarking Analysis	Frost & Sullivan	1998
Frost & Sullivan	European Medical Image Management Systems Market	Frost & Sullivan	1999
Frost & Sullivan	European Telemedicine Markets	Frost & Sullivan	1998
Frost & Sullivan	European Alternate Site Patient Monitoring Equipment Markets	Frost & Sullivan	1998
Frost & Sullivan	US and European PACS and Teleradiology Markets	Frost & Sullivan	1998
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Healthplans Project	Healthplans - Deliverable 3 & 4		1999
HIMSS	the 10 Annual HIMSS Leadership Survey Sponsored by IBM	HIMSS	1999
HIMSS and RNSA	IHE: Integrating the Healthcare Enterprise	HIMSS and RNSA	1999
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HON	5th HON Survey on the Evolution of Internet Use for health Purposes	HON	1999
Hope	Hospital Healthcare Europe 1999/2000	Hope	1999
IDATE, TNO	Evolution of the Internet and the WWW in Europe	ECSC-EC-EAEC Brussels	1997
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ISPO	Measuring the information Society 1997	ISPO	1997
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NHS Cymru Wales	Keeping Care Local	NHS Cymru Wales	1998
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NHS Executive	A Survey of Acute Hospital Patient Centred and Clinical Information Systems	NHS Executive	1998
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OECD	Health Data 1999	OECD	1999
OECD	Internet infrastructure Indicators	OECD	1999
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Spri	Telemedicine - Applications in Sweden	Spri	1998
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	Journal of Telemedicine and Telecare 1998-1999 all issues	Queen's University Belfast	1998-99
	Healthcare Informatics 1998-1999 all issues	A publication of The McGraw-Hill Compagnies	1998-99
	Healthcare Informatics - Special Issues - 2000 Resource Guide	A publication of The McGraw-Hill Compagnies	2000

Web Sites of Interest

Web Pages	URL's
1997 Smart Cards Statistics	http://www.eos.ncsu.edu/eos/info/franklin_info/capstone/web/total/sld006.htm
8-99 Telehealth Magazine Confused by the EMR market We have answers to your questions	http://www.telehealthmag.com/db_area/archives/1999/9908black.16.html
ADA Library	http://www.ada.org/p&s/library/libservs.html
ADA Survey Center	http://www.ada.org/p&s/sc/sc-menu.html
AEMH - Hospital	http://ourworld.compuserve.com/homepages/aemh/
Agència d'Avaluació de Tecnologia Mèdica	http://www.aatm.es/
Agencia De Evaluacion de Tecnologias Sanitarias	http://www.isciii.es/unidad/aet/DocEnIngles/iaetAyS.htm
Agencia de Evaluación de Tecnologías Sanitarias - Instituto de Salud Carlos III	http://www.isciii.es/aets/
Agency for Health Care Policy and Research Home Page	http://www.ahrp.gov/
Agfa Medical Imaging	http://medical.agfa.com/en/index.t3l
AMA - Physicians Accessing the Internet Project	http://www.ama-assn.org/public/pai/pai.htm
American Medical Informatics Association (AMIA)	http://www.amia.org/
AMIA '99 Annual Symposium	http://www.amia.org/meetings/f99/main.html
AMIA Clinical Information Systems Working Group	http://www.amia.org/wg&sig/cis_wg.htm
AMIA Dental Informatics Special Interest Group	http://www.temple.edu/dentistry/amia/
AMIA Family Practice-Primary Care Working Group	http://www.amia.org/wg&sig/fppc_wg.htm
AMIA Internet Working Group	http://www.amia.org/wg&sig/int_wg.htm
AMIA Medical Imaging Systems Working Group	http://www.amia.org/wg&sig/mis_wg.htm
AMIA Nursing Informatics Working Group	http://www.amia.org/wg&sig/ni_wg.htm
AMIA Telehealth SIG	http://www.amia.org/wg&sig/tel_sg.htm
AMS Healthcare and Pharmaceuticals -- 45 Hospitals and Counting	http://www.amsinc.com/Health&Pharm/42Hospitals.htm
Andalousia - Health Technology Assesment	http://150.214.5.9/orgdep/AETSA/default.htm
Andalusia - Salud	http://www.sas.junta-andalucia.es/
ATA - Rescources	http://www.atmeda.org/resources/marketreports.html
Atmedica, le rendez-vous des professionnels de la médecine et de la santé	http://www.atmedica.com/home/atmedica/0,1378,A-parspecialite-,00.html
Australian Department of Health and Aged Care	http://www.health.gov.au/
Austria Health Technology Assessment at ITA	http://www.oeaw.ac.at/ita/hta/
BARCO Display Systems	http://www.barco.com/display/products/overmed.htm
Basque Country - Health Technology Assessment	http://www.euskadi.net/sanidad/indicef_c.htm
Basque Country - Servicio Vasco de Salud	http://www.osakidetza-svs.org/osakidetza/nuevo/index.htm
Bienvenido al Servidor Web de la Generalitat Valenciana	http://www.gva.es/infocuada/index.html
Biomedicine Bibliography	http://www.niwi.knaw.nl/cgi-bin/nph-biomed_search.pl
British Dental Association	http://www.bda-dentistry.org.uk/
Bundesministerium für Arbeit, Gesundheit und Soziales	http://www.bmag.s.gv.at/

Web Pages	URL's
Canaria-Salud	http://www.scsgc.rcanaria.es/
Canaria-Sanidad y Consumo	http://www.gobcan.es/agenda/html/orgconsan.htm
Cardlink	http://www.ehto.be
Carte professionnelle CPS	http://www.gip-cps.fr/
Catalonia - Departament de Sanitat i Seguretat Social	http://www.gencat.es/sanitat/cat/cindex.html
CatchWord	http://www.catchword.com/cl=9/vl=-32804438/nw=1/rpsv/cw/web/nw1/browse.htm
CEGETEL - Réseau santé social	http://www.cegetel.rss.fr/htm/accueil/accueil.html
Centre for Health Informatics	http://137.44.37.10/chi/
Centres Régionaux France	http://www.sante.gouv.fr/htm/publication/index.htm
Cerner Third Quarter '99 Financials	http://www.cerner.com/1/1-991020-3q99results.htm
CHIM Publications Order Form	http://www.chim.org/Publications.html
CHIME Reference Documents	http://www.chime-net.org/services/serv3.asp
CHIN	http://www.nh.gr/CHIN/eng/tele/index.html
Cht	http://www.telematics.ki.se/
Cisco - Health Care	http://www.cisco.com/warp/public/779/largeent/healthcare/
CMT Index	http://www.imt.liu.se/cmt/
CNEH	http://www.cneh.fr/
Community Health Information Networks Paving The Country Roads	http://www.eds.com/industries/health_care/industry_news/papers/hc_papers_chin_paving.shtml
Computer Economics, Inc IT Health Spending survey	http://www.computereconomics.com/new4/benchhome/ch9.html
Computer Sciences Corporation - Industries	http://www.csc.com/industries/healthcare/library/it.html
ComputerTalk Home Page	http://www.computertalk.com/index.html?VendorLists_HTML=ALL_all.shtml
Consejeria de Salud Andalucia	http://www.csalud.junta-andalucia.es/default1.asp
Corporate User Demand and Attitudes	http://www.idc.fi/products/factshee/1999/Corporate_1999.HTM
Cpme	http://www.cpme.be/
CREC/KPMG Smart Card Market	http://cism.bus.utexas.edu/
CREC-KPMG White Paper Smart Cards	http://cism.bus.utexas.edu/works/articles/smartcardswp.html
Cyberdialogue	http://www.cyberdialogue.com/

Web Pages	URL's
Data General Online	http://www.dg.com/healthcare/html/healthcare_customers.html
DBCard - carte informatizzate e database	http://www.dbcard.it/
Deloitte & Touche News e attitudes	http://www.usdeloitte.com/us/news/99oct/happe.htm
Deloitte Touche Tohmatsu - ecommerce	http://www.deloitte.com/whatsnew/51898.html
Deloitte US Report - Hospitals	http://www.dc.com/services/industries/health_care/
Déploiement Vitale-CPS et informatisation GP	http://www.amgitweb.com/
Deutsches Ärzteblatt Magazine	http://www.aerzteblatt.de/pc/kbv.html#edvf
Diagnostic Imaging Online	http://www.dimag.com/newsletters.htm#mriir
DIMDI Homepage - Deutsches Institut für	
Medizinische Dokumentation und Information	http://www.dimdi.de/
DISA Home Page	http://www.disa.org/
DKG, Deutsche Krankenhausgesellschaft	http://www.dkgev.de/
Drugstore.com - Le pionnier des e-Pharmacies	http://www.medcost.fr/SImedicaux/WE111099b.htm
EFMI Home Page	http://www.hiscom.nl/efmi/
eHealth - Consumer Attitudes	http://ehealth.chcf.org/cons_att2/index_show.cfm?doc_id=5
eHealth - Home	http://ehealth.chcf.org/index.cfm
EHTO European Health Telematics Observatory	http://www.ehto.be/index.html
Electronic Commerce for Pharmaceuticals Europe '99	http://www.firstconf.com/ecpharmaeuro/
Electronic Format Market Reports Directory	http://www.prgguide.com/ef/pharm.html
Electronic Health records Trends US	http://www.medrecinst.com/survey/analysis/results.shtml
Emedi Survey 1997-1998	http://www.emedi.com/survey/
eMJA Articles on Informatics & publishing	http://www.mja.com.au/Topics/Informatics%20%26%20publishing.html
ESIS - Companies profile	http://www.ispo.cec.be/esis/Presentation/Team.htm
European Smart Card Industry Association	http://www.eurosmart.com/
Eurobarometer 98 - 50.1	http://www.ispo.cec.be/polls/EB98.htm
Eurobarometer IT survey 1997	http://www.ispo.cec.be/infosoc/promo/pubs/poll97/eurobaroen.htm
European Pharmaceutical and Biopharmaceutical Companies Guide, The	http://www.prgguide.com/reports/healthcare/r137-004w.html
Evaluation de CLINICOM	http://www.hbroussais.fr/Broussais/InforMed/DocEvaluation/CLINICOM.html

Web Pages	URL's
F.K. Schattauer Verlag GmbH im Internet	http://www.schattauer.com/zs/startz.asp
Fédération hospitalière de France	http://www.fhf.fr/presentation/presentation.htm
FENIT	http://www.fenit.nl/
FinOHTA	http://www.stakes.fi/finohta/e/
Frost & Sullivan - Healthcare Market Engineering	http://www.frost.com/healthcare/
FT Pharmaceuticals	http://www.pharma.ft.com/
Full Catalog - Medical Systems & Healthcare Services - Subcategories Menu	http://solutions.sun.com/catalogs/all/Medical_Systems_Healthcare/index.htm
Future Trends in Medical Device Technology	http://www.fda.gov/cdrh/ost/trends/TOC.html
G7 ENABLE - Global Information Society for Health	http://www.ehto.be/sp5/finrep/toc.html
GartnerGroup Outlook on Healthcare IT Business Trends, Market Forces and Technology TOC	http://www.info-edge.com/5630toc.htm
GEMPLUS - Applications - Healthcare - References	http://www.gemplus.com/app/health/references.htm
GER Federal and State Institutions	http://www.iid.de/service/bundeslinks_e.html
GER Statistik Regional	http://www.brandenburg.de/statreg/#RTFToC4
Gesundheit - tab	http://www.oestat.gv.at/fachbereich_03/gesundheit_tab.htm
Gg7	http://www.medis.or.jp/proj/g7/english/G7_01E.htm
Global Intelligence - Hospital info and Data Management Sys	http://www.ehto.org/hps/hospitaldatamanagements.html
GMDS - Arbeitsgruppen	http://www.med.uni-muenchen.de/gmds/ag/ag.html
GMDS - Gesellschaft f. Med.Informatik, Biometrie u. Epidemiologie	http://www.med.uni-muenchen.de/gmds/gmds.html
GMDS-Homepage	http://www.gmds.de/
Gordon & Glickson	http://www.ggtech.com/
GPIT Web site	http://www.gpit.ie/
Growing home-care business benefits	http://www.telemedmag.com/topics/hhea4.htm
GSF Medis M2 Application Systems	http://www-mi.gsf.de/
GVU's 10th WWW Survey Results	http://www.gvu.gatech.edu/user_surveys/survey-1998-10/

Web Pages	URL's
Harris Interactive	http://www.harrisinteractive.com/
HCIA's HIS	http://www.hcia.com/hcia_library/his/index.htm
HCN - HCN Australian Health	http://www.hcn.net.au/info/intro.htm
Health & Educational Informatics	http://www.shef.ac.uk/~nhcon/hi.htm
Health Cards '99 main page	http://www.itba.mi.cnr.it/epim/health-cards99/
Health Care Horizons' 2000 Research	http://www.iff.org/html/features/
Health Care Report Cards	http://www.aispub.com/Products/book4.htm
Health Care Technology Trends Survey - Managed Care Information Technology	http://www.instantsurvey.com/Custom/microsoft/toplevel/
Health Data Management	http://hdm.fgray.com/
Health Data Management 1999 Resource Guide	http://hdm.fgray.com/html/buyers00/main.htm
Health Informatics and Telematics	http://www3.vtt.fi/tte/tre/vtthit/
Health Informatics Europe what's new	http://hi-europe.co.uk/home.htm
Health Informatics Society of Australia	http://www.hisa.org.au/
Health Informatics World Wide	http://www.imbi.uni-freiburg.de/medinf/mi_list.htm
Health Informatics Worldwide	http://www.apami.org/links.html
Health Informatics, Medical Informatics, Family Practice, General Practice, Ireland,	http://homepages.iol.ie/~bom/
Health Management Technology	http://www.healthmgttech.com/
Health Services-Technology Assessment Text	http://text.nlm.nih.gov/
Health, United States	http://www.cdc.gov/nchs/products/pubs/pubd/hus/hus.htm
Healthcards	http://www.clinical-info.co.uk/euhci.htm
Healthcare Informatics 100	http://www.healthcare-informatics.com/top100.htm
Healthcare Informatics Online Magazine	http://www.healthcare-informatics.com/amag.htm
Healthcare Informatics PULSE	http://www.healthcare-informatics.com/expo/pulse.htm
Healthcare Informatics Society of Ireland	http://www.mater.ie/hisi/hisi.htm
Healthcare Informatics Top 100 List 1998	http://www.healthcare-informatics.com/issues/1998/06_98/top100.htm
Healthcare Information Systems Directory	http://www.health-infosys-dir.com/
Health-Care On-Ramps A Road Map to Western States' Information Highways	http://www.westgov.org/wga/publicat/roadrpt.htm
Healthcare Vendor Performance	http://www.healthcomputing.com/Default.htm
Healthon Internet Survey of Medicine ISMTM	http://www.amia.org/cpri/99annual/ef/index.htm
HealthGate	http://www.healthgate.com/

Web Pages	URL's
HealthNet - Home Page	http://www.santel.lu/projects/healthnetfr.html
Hebs Research Centre - Survey Data	http://www.hebs.scot.nhs.uk/researchcentre/sd/index.htm
Heliview	http://www.heliview.com/
HIMSS Leadership Survey	http://www.himss.org/publications/intro.htm
Home care industry turns to automated technologies	http://www.telemedmag.com/topics/hhea5.htm
HON's Fourth survey on the use of the Internet for medical & health Internet purposes	http://www.hon.ch/Survey/ResumeApr99.html
HOPE	http://www.hope.be/04member/member.htm#fullmem
HRSA State Profiles	http://www.hrsa.dhhs.gov/profiles.htm
IBM Global Healthcare Industry Home Page	http://houns54.clearlake.ibm.com/
IBM.net Feature Medical Resources on the Web	http://www.ibm.net/channels/features/ft080599.html
ICGP Home Page	http://indigo.ie/~icgp/frmain.htm
IDC Australia	http://idc.com.au/
IDC Nordic View Issue 2, 1999	http://www.idc.fi/NordicView/Nordic_View_0299.HTM
IDC Nordic View Issue 3, 1999	http://www.idc.fi/NordicView/Nordic_View_0399.HTM
IDX SYSTEMS CORPORATION Healthcare Systems	http://www.idx.com/
IMI Institut für Medizinische Informatik, Statistik und Dokumentation	http://www.kfunigraz.ac.at/imi/www/
IMIA Home Page	http://www.imia.org/
INAHTA -- Addresses	http://195.84.253.17/sbu-site/links/inahta/Addresses.html
INAHTA -- International Network of Agencies for Health Technology Assessment	http://www.inahta.org/
Infomed	http://www.infomed.dia.fi.upm.es/english/index.html
Informatik im gesundheitsverbund	http://www.igv.co.at/
Information and IT for the NHS	http://www.doh.gov.uk/nhsexipu/index.htm
Information and statistics Division	http://www.show.scot.nhs.uk/isd/home.htm
Information on developments in IM&T for the NHS	http://www.nhsia.nhs.uk/
Information Technology & Healthcare @Brint.com (tm)	http://www.brint.com/Medicine.htm
INFORSALUD'99. III Congreso Nacional de Informática de la Salud	http://www.seis.es/inforsalud99/mesas.htm
INSALUD Sistema de información	http://www.msc.es/insalud/sisinfo/home_sisinfo.htm
Institut d'Estadística de Catalunya IDESCAT (versió en català)	http://www.idescat.es/
Institute for the Future	http://www.iftf.org/index.html
Institute of Healthcare Informatics, Dublin, Ireland	http://www.mater.ie/ihl/default.htm
Instituto Nacional de Estadística. (Spanish Statistical Institute)	http://www.ine.es/

Web Pages	URL's
Interessante links - Belgie	http://www.kmonet.be/beroep/vrij&intellectueel/links.htm
International Centre for Excellence in Dentistry - Clinical Research	http://www.iced.co.uk/rese_manag.html
International Data Corporation Benelux - 1999 Research Program	http://www.idcresearch.nl/1999rep.html
International Data Corporation Benelux - Your Global IT Information Resource	http://www.idcresearch.nl/
Internet Availability of Prescription..., Annals 27 Sep 99	http://www.acponline.org/journals/annals/05oct99/bloom.htm
Internet Health Initiative J.D. Power and Associates	http://www.intel.com/intel/e-health/jdpower.htm
Internet Purchase of Prescription Drugs..., Annals 24 Sep 99	http://www.acponline.org/journals/annals/05oct99/henney.htm
Introduction to the Survey Dataset - Introduction aux chiffres de l'enquête	http://www.ispo.cec.be/infosoc/promo/pubs/poll97/
Irish Health Boards	http://www.doh.ie/contact/health_boards.html
Irish Medical Directory	http://ireland.iol.ie/imd/
Irish Medical Journal	http://www.imj.ie/
Irish Medical Systems	http://www.irishmed.ie/
IS publications	http://www.newmedia.at/cgi-bin/publications/webdriver?MIval=/publikationen.html
IT Healthcare Sweden	http://www.spri.se/english/publications.htm
JJMI database	http://www.miyazaki-med.ac.jp/jjmi/jjmi.html
Kennziffern über Österreich - tab	http://www.oestat.gv.at/fachbereich_10/kennziffern_tab.htm
Kierski and Associates	http://members.aol.com/wkiervajra/wernerpage.htm
Language and Computing Homepage	http://www.landc.be/javaframes.asp
L'Atelier - Institut de veille technologique de Paribas	http://www.atelier.fr/
Le ministère les agences régionales d'hospitalisation	http://www.sante.gouv.fr/html/minister/2_11.htm
Le Quotidien du Médecin	http://www.quotimed.com/
Links to international HTA organisations	http://www.hta.nhsweb.nhs.uk/
Links to Irish Hospital Web sites	http://www.gpit.ie/links_hosp.html
Lux-Imacs	http://www.santel.lu/projects/luximacs.html
Mater Misericordiae Hospital, Dublin	http://www.mater.ie/
Medical Imaging Research Group, Oulu, Finland	http://www.mirg.oulu.fi/
Medical Imaging Resources Content Listing	http://agora.leeds.ac.uk/comir/resources/links_c.html
Medical Imaging survey - Promise	http://sirio.cineca.it/visit/promise/survey.html
Medical Imaging Techniques Homepage	http://imasun.lbl.gov/~budinger/medhome.html
Medical Imaging Techniques Homepage	http://imasun.lbl.gov/~budinger/medhome.html
Medical Informatics - Participants in the Development	http://www.cs.tcd.ie/synapses/public/html/participantsandcontacts.html
Medical Informatics Departments in United Kingdom and rest of Europe	http://www.cs.man.ac.uk/mig/links/europe.medinfo.html
Medical Informatics Links	http://dmi-www.mc.duke.edu/dukemi/misc/links.html

Web Pages	URL's
Medical Top	http://www.medicaltop.com/page6.html
Medis-dc	http://www.medis.or.jp/e_index.html
Mediware - Press Release	http://www.mediware.com/prevup.html
Medline	http://omni.ac.uk/medline/
MedQuist - About Medquist	http://www.medquist.com/about/industry_trends.htm
Microsoft Business Solutions - Healthcare - Home Page	http://www.microsoft.com/industry/health/
Mie'99	http://www.mie99.org/index.htm
Ministère - Informatisation du système de santé	http://www.sante.gouv.fr/sis/index.htm
Ministère - Telemedecine en France	http://www.sante.gouv.fr/hm/pointsur/telemed/82.htm
Ministère de la santé - Adresses utiles	http://www.santel.lu/MIN/adresses.html
Ministério da Saúde	http://www.dgsaude.pt/
Ministerio de Sanidad y Consumo	http://www.msc.es/
Ministero della Sanità - La ricerca sanitaria in Italia - Home page	http://www.sanita.it/rsi/
Ministry of Health & Welfare	http://www.mhw.go.jp/english/index.html
Ms-huge	http://194.78.45.7/events/mshuge99/reg_form.html
National Board of Nursing, Midwifery and Health Visiting in Scotland home	http://www.nbs.org.uk/
National Health Service in Scotland Annual Report 1997-98 Contents page	http://www.scotland.gov.uk/library/documents-w4/hsar-00.htm
NCHS - Surveys and Data Collection Systems - National Vital Statistics System	http://www.cdc.gov/nchs/nvss.htm
Network of Excellence Centres for Social Welfare and Health Care - Introduction	http://www.oskenet.fi/introduction/index.html
NHS Authority	http://www.nhsia.nhs.uk/
NHS Confederation England	http://www.nhsconfed.net/frame.htm?eng
NHS Confederation Northern Ireland	http://www.nhsconfed.net/frame.htm?ni
NHS Confederation Scotland	http://www.nhsconfed.net/frame.htm?scot
NHS Confederation Wales	http://www.nhsconfed.net/frame.htm?wales
NHS Executive Information Policy Unit - Links	http://www.doh.gov.uk/nhsexipu/links.htm
NHS IM&T Electronic Library Alphabetical Card Index	http://www.standards.nhsia.nhs.uk/library/cards/c0000000.htm
NHS Impact	http://www.nhsimpact.net/
NHS Information Authority GPnet	http://www.gpnet.nhsia.nhs.uk/gpnet.asp
NLM National Telemedicine Initiative	http://www.nlm.nih.gov/research/telemedinit.html
NordIT Communications	http://www.idc.fi/products/factshee/1999/Communications_1999.HTM
NordIT Home User Demand and Attitudes	http://www.idc.fi/products/factshee/1999/Home_1999.HTM
NordIT Internet and eCommerce	http://www.idc.fi/products/factshee/1999/INTERNET_1999.HTM
NordIT IT Services	http://www.idc.fi/products/factshee/1999/itservice_1999.htm
NordIT Personal Systems	http://www.idc.fi/products/factshee/1999/PC_1999.HTM
NordIT Quarterly Executive Service	http://www.idc.fi/products/factshee/1999/QES_1999.HTM

Web Pages	URL's
O'Mahoney	http://homepages.iol.ie/~bom/
OMNI Organising Medical Networked Information	http://omni.ac.uk/
Organismes, institutions sites francophones	http://www.chu-rouen.fr/ssf/insfr.html
Orphee	http://www.santel.lu/projects/Orphee/orphee.html
Partenaires EHTO France	http://www.cneh.fr/ehto/ehtofr.htm
PeopleSoft Healthcare Newsletter	http://www.peoplesoft.com/
PGEU Web Site	http://www.pgeu.org/
Pharmacies en ligne du monde derrière le comptoir	http://www.medcost.fr/SImedicaux/SI121199b.htm#tendances
PharmiWeb	http://www.pharmiweb.com/join_pw/nhsnet_form.htm
PHCSG Home	http://www.schin.ncl.ac.uk/phcsg/index.htm
Philips Medical Systems International	http://www.medical.philips.com/
Pharma Publications Industry Profile 1999	http://www.phrma.org/publications/industry/profile99/index.html
Pourcentage de médecins connectés au sein de l'Union européenne	http://www.medcost.fr/BDD/informatisation/UEconnexion.html
PRODIGY Reports	http://www.schin.ncl.ac.uk/prodigy/reports/reports.htm
Professional Home Health Care	http://www.vnacj.org/
Publications from the Ministry of Research	http://www.fsk.dk/fsk/publ/index-uk.html
PubMed	http://www.ncbi.nlm.nih.gov/
QuadraMed - Healthcare Information Systems Technology - Company Facts	http://www.quadamed.com/html/company_facts.html
Questionnaire's Analysis Summary	http://dis.sema.es/projects/esis/e_anestad.htm
Questionnaire's Statistical Analysis	http://dis.sema.es/projects/esis/e_anestad2.htm
Report on the Informatics Survey - Canada	http://phs.med.utoronto.ca/informatics/currie_contents.htm
Resaux soins santé	http://www.dgn.de/
Réseau CHU	http://www.reseau-chu.org/home.html
Roland Berger & Partners Group	http://www.rberger.de/index_IMC.html
Romtec PLC	http://www.romtec.co.uk/
RSNA -- Computerized Medical Imaging Society	http://www.rsna.org/about/orgs/cmim.html
Santel	http://www.santel.lu/SANTEC/home.html
Santnet	http://www.santnet.com
SBU -- Swedish Council on Technology Assessment in Health Care	http://www.sbu.se/sbu-site/index.html
Schlumberger Health Smart Card	http://www.slb.com
Scotland Taking Action 1998 - 2002 IT	http://www.show.scot.nhs.uk/imt/
Secteur des institutions hospitalieres	http://www.spiral.lu/LIL/sante.htm
Servers in Medical Informatics, Healthcare Telematics and Telemedicine	http://www.chu-rouen.fr/dsii/ehto/infiveng.html#CARTESANTE

Web Pages	URL's
Sesam-vital	http://www.sesam-vitale.fr/
Sevilla 99 - Agora 5	http://www.sadiel.es/agora5/ingles/ingles.htm
Sheldon I. Dorenfest & Associates, Ltd.	http://www.dorenfest.com/
Siemens - Health Care	http://www.siemens.com/en/products_n_solutions/arbeitsgebiete/medizin/index.html
Siemens Health Services	http://www.med.siemens.com/med/shs/en/index.htm
SIIMM - Società Italiana Informatica Multimediale in Medicina	http://www.nettuno.it/fiera/siimm/
Site EHTO	http://www.cneh.fr/ehto/ehto.htm
Site officiel du PMSI	http://www.le-pmsi.fr/
Sites in Healthcare Telematics outside Europe (EHTO France)	http://www.chu-rouen.fr/dsii/ehto/infmedwo.html#IHSAU
Sites médicaux dans le monde menu général	http://www.chu-rouen.fr/ssm/watch.html
Smart Cards - List of Key players	http://www.dice.ucl.ac.be/crypto/card.html
Smart Cards in the Health Care Industry	http://cherry.iac.gatech.edu/mot/97/group/smart.htm
Smart Cards Report 1996	http://www.chsys.org/healthsys/pr/reportcom96/report4.htm
SNST - Home Page	http://www.santel.lu/projects/snst.html
Sociedad Española de Informática de la Salud	http://www.seis.es/
Spain Insalud	http://www.ole-net.com/SiSpain/english/healsoc.html
SPRI Health Informatics	http://www.spri.se/english/i_eng/i_eng.htm
Strategic Programme for Modernising Information Management and Technology in the NHS in Scotland	http://www.show.scot.nhs.uk/imtdec98/index.htm
Survey Internet use in Dentistry US	http://www.temple.edu/dentistry/di/survey/sr0796/sr0796.htm
Synertech Managed Care Outsourcing and Application Services	http://www.synertechsystems.com/
Tc251	http://www.cenct251.org/
TEHRE Conference	http://www.tepr.com/tehre/index.html
TeleHealth Magazine Industry Scan	http://www.telemedmag.com/current/indscan.htm
Telematik im Gesundheitswesen	http://www.iid.de/forschung/studien/telematik/index.html
Télématique de Santé & Télé médecine	http://www.chu-rouen.fr/dsii/ehto/tlm.html#TOC
Telemedicine - Market Targets 1997	http://www.telemedmag.com/topics/oper5.htm
Telemedicine and telepharmacy Current status and future implications	http://www.ashp.com/public/pubs/ajhp/vol56/num14/telemedicine.html
Telemedicine Federal Strategy Is Needed to Guide Investments 97	http://www.gao.gov/AIndexFY97/abstracts/n397067.htm
Telemedicine Finland	http://www.tele.fi/english/rd/status.html
Telemedicine in Japan	http://web.ktarn.or.jp/kurume-u-hp/Enkaku-ProjIndex-R.txt

Web Pages	URL's
Telemedicine John Mitchell & Associates	http://www.jma.com.au/telemed.htm
Telemedicine Report to Congress 97	http://www.ntia.doc.gov/reports/telemed/index.htm
The Computer-Based Patient Record	http://www.nap.edu/catalog/5306.html
The Future of the Internet in Health Care A Five-Year Forecast	http://www.informatics-review.com/thoughts/future.html
The Global Village of Dentistry	http://www.temple.edu/dentistry/di/news/dipr0398.htm
The Informatics Review	http://www.informatics-review.com/
The NHS's Data Networking Strategy	http://www.info-com.com/nhstb/ag/tfs/ds-4-index.html
The World-Wide Web Virtual Library Public Health - Geographical Locations Europe	http://www.ldb.org/vl/geo/europe/
TIE Telemedicine Journals	http://tie.telemed.org/journals/
TNO - Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek TNO	http://www.tno.nl/homepage_nl.html
Top Technologies in Health Care	http://hdm.fgray.com/html/supplements/toptech/index.htm
U.E.M.O. on-line	http://www.uemo.org/
U.S. National Library of Medicine (NLM)	http://www.nlm.nih.gov/
UEMS website, EUROPEAN UNION OF MEDICAL SPECIALISTS	http://www.uems.be/
United Kingdom Medical Organisations	http://www.cs.man.ac.uk/mig/links/ukmed.org.html
University Athens	http://www.dn.uoa.gr/
US Dentist Survey	http://www.ada.org/adapco/extra/archives/9905/computer.html
US Smart Card Market Outlook	http://www.scia.org/Library/
Useful Web Addresses for IT and Telecoms Analysis	http://www.idc.fi/webaddresses.HTM
Vatam	http://www-vatam.unimaas.nl/
V-CHI, The Danish Center of Healthcare Informatics	http://www.v-chi.dk/
Velkommen til DSMI	http://www.dsmi.dk/
VTT Information Technology home page	http://www3.vtt.fi/tte/
WALLACE - Home Page	http://www.santel.lu/projects/wallace/wallace.html
WERKGROEP THUISVERZORGERS v.z.w.	http://users.skynet.be/werkgroepthuisverzorgers/js/index.htm
Wise	http://b5www.berkom.de/wise/
World Congress on Internet and Medicine in Heidelberg	http://www.yi.com/mednet99/

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Belgium	BANGELS Marc	Ministry of Health	Brussels
Belgium	DE JONGH Theo	Cisco Systems Healthcare	Brussels
Belgium	DEMOOR Georges	Rug Medical Informatics	Gent
Belgium	DEVLIES Jos	Datasoft	Oostende
Belgium	LEURQUIN Christine	Satellites Astra	Brussels
Belgium	NYSSSEN Marc	Vrij Univeriteit van Brussel	Brussels
Belgium	PIRET Claude	UCL St Luc	Brussels
Belgium	ROGER FRANCE Francis	UCL St Luc Medical Informatics	Brussels
Belgium	SCHOONBAERT Luc	Medibridge	Brussels
Belgium	TIDDENS Lisette	Pharmaceutical group of the European union (PGEU)	Brussels
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Germany	GRISK Adolf	IfAp	Bad Saarow
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Germany	MANN Gerd	GSF	München
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Italy	RAGGI Roberto	Deloitte Consulting Group	Rome/Milan
Italy	RUSCITTI Dott Giancalo	Ospedale Pediatrico B Gesu	Rome
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Luxembourg	HASTERT Marc	Entente des hop Lux	Luxembourg
Luxembourg	JUCHEM Jean-Paul	Union caisses maladie	Luxembourg
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Luxembourg	SZTANTICS Tobias	Compaq	Luxembourg

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Netherlands	HOFDIJK Jacob	Hiscom	Leiden
Netherlands	SMEDEMA Kees	Philips Medical System	Best
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Canada	CHABBERT Guy	Deloitte & Touche S Bélaire	Montreal
USA	CROCKER A. Tuck	Deloitte Consulting Group	Boston, MA
USA	FONTAINE Lori	Deloitte Consulting Group	Boston, MA
USA	RUYLE L. Sharon	Department of Veterans Affairs	Tuscaloosa, AL
USA	WAEGEMANN Peter	Medical Records inc	Boston, MA
Japan	KAZUHIKO Ohe	Univiersity of Tokyo	Tokyo
Japan	MORI Hiroya	Tohmatsu Consulting Co, Ltd	Tokyo
Japan	SATOMURA Yoichi	Division of Medical informatics CHIBA	Chiba
Japan	YAMAGUCHI Takami	Nagoya Institute of Technology	Nagoya

HIST - Conferences

MIE'99 - European Congress for Medical Informatics	August 22-26 1999	Ljubljana	Slovenia
EHTEL	September 10-11 1999	Erlagen	Germany
MEDNET'99	September 18-21 1999	Heidelberg	Germany
AGORA 5	October 7-8 1999	Seville	Spain
Opportunities for Citizens, Society and Industry	November 4-5 1999	Strasbourg	France
AMIA'99	November 6-10 1999	Washington	USA
TEHRE'99	November 14-17 1999	London	UK
Electronic Commerce for Pharmaceuticals Europe	November 18-19 1999	London	UK
Information Society DG Workshop	November 26 1999	Brussels	Belgium
MSHuge'99	December 3-4 1999	Brugge	Belgium

**Deloitte & Touche Survey
on the current and planned use of ICT in hospitals - 1999
Basic characteristics of the participating hospitals**

Country	Hospital	Sites	Beds
Belux	Hospital 1	3	495
Belux	Hospital 2	1	162
Belux	Hospital 3	1	375
Belux	Hospital 4	1	273
Belux	Hospital 5	3	860
Belux	Hospital 6	1	240
Belux	Hospital 7	2	240
Belux	Hospital 8	2	250
Belux	Hospital 9	20	1,005
Belux	Hospital 10	2	321
Belux	Hospital 11	2	676
Belux	Hospital 12	1	331
<i>Belux Total</i>		39	5,228
Denmark	Hospital 1	1	600
Denmark	Hospital 2	1	1,100
Denmark	Hospital 3	1	600
Denmark	Hospital 4	1	1,260
Denmark	Hospital 5	1	894
Denmark	Hospital 6	1	282
Denmark	Hospital 7	1	340
Denmark	Hospital 8	1	887
Denmark	Hospital 9	1	464
Denmark	Hospital 10	1	511
<i>Denmark Total</i>		10	6,938
France	Hospital 1	2	1,028
France	Hospital 2	2	540
France	Hospital 3	7	3,616
France	Hospital 4	4	1,020
France	Hospital 5	2	1,271
France	Hospital 6	4	810
France	Hospital 7	1	1,100
France	Hospital 8	7	1,000
France	Hospital 9	3	272
France	Hospital 10	2	403
France	Hospital 11	0	0
<i>France Total</i>		34	11,060

Country	Hospital	Sites	Beds
Germany	Hospital 1	2	755
Germany	Hospital 2	0	0
Germany	Hospital 3	1	300
Germany	Hospital 4	2	430
Germany	Hospital 5	1	140
Germany	Hospital 6	0	20
Germany	Hospital 7	1	493
Germany	Hospital 8	4	401
<i>Germany Total</i>		11	2,539
Italy	Hospital 1	2	600
Italy	Hospital 2	1	220
Italy	Hospital 3	2	2,100
Italy	Hospital 4	4	1,000
Italy	Hospital 5	1	120
Italy	Hospital 6	1	700
Italy	Hospital 7	2	0
Italy	Hospital 8	1	430
Italy	Hospital 9	1	650
Italy	Hospital 10	10	2,900
Italy	Hospital 11	2	400
<i>Italy Total</i>		27	9,120
Spain	Hospital 1	5	1,168
Spain	Hospital 2	1	215
Spain	Hospital 3	18	1,759
Spain	Hospital 4	2	395
Spain	Hospital 5	1	80
Spain	Hospital 6	4	730
Spain	Hospital 7	2	260
Spain	Hospital 8	4	416
Spain	Hospital 9	1	475
Spain	Hospital 10	2	78
UK	Hospital 1	4	1,330
UK	Hospital 2	Unknown	Unknown
UK	Hospital 3	Unknown	Unknown
UK	Hospital 4	Unknown	Unknown
UK	Hospital 5	Unknown	Unknown
UK	Hospital 6	5	51
UK	Hospital 7	3	840
<i>UK Total</i>		12	2,221