Foreword

The purposes set for UMIN at the time of its establishment are now fully realized with the recent establishment of education-related services such as online evaluation systems for medical education and post-graduate clinical training. I sincerely thank everybody who has contributed to UMIN activities, especially the former chairpersons, Drs. Kaihara and Sakurai, along with the successive groups of staff members from the Medical Education Division of the Ministry of Education, Culture, Sports, Science, and Technology. I hope everyone will continue to understand and to support the future activities of UMIN. I believe that all UMIN services for medical professionals and students will finally be available to the general public in the form of good medical practice.

My hope is that this brochure serves to promote a fuller and better understanding of UMIN and facilitates the use of its services.

Sincerely,
Chairperson, University hospital Medical Information Network Council of the National University Hospital Association
Tetsuya Igarashi, M.D., Ph. D. (Tsukuba Univ.)

What does “Infrastructure for Academic Activities” mean?

Who can use the infrastructure?
Any academic-related individuals and organizations!
(1) Individual researchers
(2) Research laboratories
(3) Research groups
(4) Academic societies
(5) Universities and research institutes

What purposes is the infrastructure used for?
Any academic-related purposes!
(1) Research: Data management of clinical trials, abstract entry for academic meetings, research fund information, etc.
(2) Education: Electronic textbooks, VOD image database, online evaluation of medical education and practice, etc.
(3) Clinical practice: Drug information, intoxication database, online manuals, etc.
(4) Others: Preparation of homepages, communication using mailing lists, email addresses for groups, etc.

Which resources of the infrastructure can be used?
Any combinations of UMIN servers, software, IDs, and data!

UMIN is now important information infrastructure for academic activities of biomedical sciences in Japan, and it is the largest and most versatile academic medical information network in the world.

1. Purposes

1. Provide up-to-date information to healthcare professionals
2. Support collaborative projects among university hospitals
3. Promote communications between healthcare professionals
4. Support collaborative clinical and epidemiological research
5. Standardize medical data and collect hospital statistics
6. Support medical education and clinical training

2. History

1988 UMIN and its Steering Committee established in the Hospital Computer Center, the Univ. of Tokyo Hospital.
1989 UMIN started its N1-protocol-based services.
1994 UMIN started its Internet-based services.
1997 UMIN established its Electronic Library for Biomedical Sciences (ELBIS).
1998 UMIN stopped its N1-protocol-based services.
1999 UMIN started its VPN network (UMIN VPN) for national university hospitals.
2000 UMIN established its Internet Data and Information Center (INDICE) for medical research.
2002 UMIN Center established as an independent department in the Univ. of Tokyo Hospital.
2004 The Steering Committee reorganized into the UMIN Council under the National University Hospital Association. The first professor of the UMIN Center was installed.

3. Organization (Feb. 1st, 2008)

National University Hospital Association

UMIN Council
Chairperson: Tetsuya Igarashi (Tsukuba Univ.)
Members:
Representatives from university hospitals
Eleven representative university hospitals (four-year term)
Representatives from specialists in healthcare
Dentists
Pharmacists
Nurses
Clinical laboratory technicians
Education and clinical training
Clinical and epidemiological research
Infection control

Other Representatives
UMIN Center
National Institute of Informatics
Information Technology Center, Univ. of Tokyo

UMIN Center

Hospital Administration Subcommittee
Drug Information Subcommittee
Nursing Information Subcommittee
Laboratory Information Subcommittee
Network Technology Subcommittee
Clinical Research Information Subcommittee
6. Lists of major services

**Research**
- AC - Academic society and meeting database
- ELBIS - Electronic Library for Biomedical Sciences
- FIND - Fund Information Database
- INDICE - Internet Data and Information Center
- ROCOLS - Recruiting System for Our Colleagues and Students

**Education**
- EPOC - Evaluation system for Post-graduate Clinical training
- Debut - Dental training Evaluation and taBUlation system
- Web-QME - Web-based system of Quality Management for Educational effectiveness
- VHP - Visible Human Project image data prepared by NLM, U.S.A.

**Multipurpose services**
- Information and database services
  - Collection of biomedical web sites
  - MINCS-UH broadcasting programs database
  - Medical terms glossary
  - Research institutes and hospitals database
- Homepage hosting services
  - Open homepage hosting service
  - Archival homepage hosting service
  - VOD hosting service
- Communication support
  - Email service
  - Mailing list service
  - News service
  - BBS service

**Clinical practice**
- Intoxication database
- HIV manual
- Drug information database
- Drug information text database for pharmacists
- Drug information text database for patients
- Medical supplies and materials database
- Standardized nursing procedures database

**University hospitals**
- Official document database
- University hospital guide
- University hospital statistics
- Master database for patient fee calculations
- Standardized disease nomenclature database
- Mailing lists
- Member-only homepages

5. Application for your UMIN ID

**Caution**
We are sorry that UMIN IDs are currently not issued to non-Japanese citizens who live outside Japan. An exception is those who want to use UMIN Clinical Trial Registry (http://www.umin.ac.jp/ctr/).

How to get UMIN ID for registration of a clinical trial (UMIN-CTR)
http://www.umin.ac.jp/ctr/ctr_regist.htm

We will issue a UMIN ID and send it via mail or FAX.

If you have any questions, please contact us:
http://www.umin.ac.jp/english/contact.htm

Please fill out the form and submit to touroku@umin.ac.jp

**Qualification for application**
1. Faculty, staff, or student of universities related to healthcare
2. Healthcare researchers
3. Healthcare librarians and clinical data managers in non-profit organizations
4. Trainee doctors, supervising doctors, and support staff for clinical training in postgraduate education hospitals

7. Reference Literature

### 8. Major services

**Support for clinical and epidemiological study at the initiative of researchers**

**INDICE**

UMIN Internet Data and Information Center for medical research

http://www.umin.ac.jp/indice/

INDICE is an application service provider for Internet-based clinical and epidemiological research. Its merits are:

1. **Low cost**  
   *Low cost hardware and original package software provided by UMIN*

2. **Wide experience**  
   *More than 250,000 patients registered for more than 100 research projects*

3. **Reliability**  
   *Reliable services supported by IT specialists*

4. **Safety**  
   *Security protection mechanisms such as firewalls, encryption, and intrusion detection system, etc.*

5. **Laborsaving**  
   *All of the system management, including that of hardware, software, users, and security performed by UMIN. More than 290 thousand UMIN IDs available for patient data entry*

### Quality education and clinical training based on proper online evaluation

**EPOC**

Evaluation system for Post-graduate Clinical training

http://epoc.umin.ac.jp/

1. **Characteristics**
   1. Web-based evaluations
   2. Mutual evaluations
   3. Laborsaving
   4. Fast

2. **EPOC Users**
   *More than one-third of Japanese residents use EPOC*

### Web-QME

Web-based system of Quality Management for Educational effectiveness

http://www.umin.ac.jp/web-qme/

1. **Characteristics**
   1. Web-based evaluations
   2. Secret evaluations
   3. Laborsaving
   4. Fast

2. **Procedures**
   1. Lecture and students entry
   2. Online evaluation by students
   3. Tabulation of results

### Online collection and delivery of academic information

**ELBIS**

UMIN Electronic Library for Biomedical Sciences

http://www.umin.ac.jp/elbis/

1. **Digitalization of papers and abstracts**

2. **Automated generation of bibliographic database**

3. **Laborsaving**

4. **Fast**

5. **Low cost with flexible, multifunctional software package**

### OASIS

Member-only homepage hosting service

http://www.umin.ac.jp/oasis/

1. **Automated update of member lists for HP and ML**

**Major user academic societies**

- Japan Academy of Nursing Science
- Japanese Association for Thoracic Surgery
- Japanese Circulation Society
- Japanese Society of Gastroenterology
- Japanese Neuroscience Society
- Japanese Society for Cardiovascular Surgery
- Japanese Society of Nephrology
- Japanese Neurosurgical Society
- Japanese Urological Association
- Japanese Society of Allergology
- Japan Endocrine Society
- Japanese Society of Pathology

### Quality education and clinical training based on proper online evaluation

1. **Web-based evaluations**

2. **Secret evaluations**

3. **Laborsaving**

4. **Fast**

### Web-QME

1. **Characteristics**
   1. Web-based evaluations
   2. Secret evaluations
   3. Laborsaving
   4. Fast

2. **Procedures**
   1. Lecture and students entry
   2. Online evaluation by students
   3. Tabulation of results