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C-HTTP
The development of a secure, closed HTTP-based network on the Internet

Takahiro Kiuchi, M.D.

**Dep. of Epidemiology and Biostatistics,
Faculty of Medicine, University of Tokyo, Japan**

Shigekoto Kaihara, M.D.

**Hospital Computer Center,
University of Tokyo Hospital, Japan**

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Introduction (1)

Medical Community

1. Needs for secure data communications

Multi-institutional clinical research
Case reports
Patient referral

2. Unskilled computer users

Keys? Certificates? Encryption?

3. Security insensitive users

Security of their patient's information, not their own

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Introduction (2)

Current Medical Information Networks in Japan

1. UMIN (University Medical Information Network)

Participants   University Hospitals
Protocol   N1 Protocol
Internet   Not accessible

2. Cancer Center Network

Participants   Central and regional
                national cancer centers
Protocol   TCP/IP
Internet   Accessible via a gateway

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Introduction (3)

"Physical" closed network

1. Expensive

2. Not flexible

Virtual closed network

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Introduction (4)

Why HTTP? Why not our own?

1) Flexibility of HTTP
    Most services can be provided using HTTP.

2) User friendly interface

3) User agents and servers available on almost all platforms

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