

Medical standards, free or proprietary.

Shinji KOBAYASHI

Co-chair IMIA OSS SIG

Senior lecturer of the EHR research unit, Kyoto
university

Do you remember?

- The Internet
- WWW(HTML, HTTP)
- HTML5
- Wikipedia
- CompuServe
- Gopher
- FLASH
- Encyclopaedia
Britanica(paper)

The Internet Standard and FLOSS

- Synergy effects
 - Open standard/specification
 - IETF RFC, Draft
 - W3C
 - Reference FLOSS implementations
 - TCP/IP stacks, Apache HTTPD, sendmail, BIND
- Non-free standards could not survive

Health care information standards

- More than 150 standards
- “Guild standard”
 - “Guilds” are consisted with paid members(mainly big companies)
 - “Guilds” lobby to Government that they obligate the “standard”.
 - Resources are only available for guild
- Momentum from proprietary to free/open
 - HL7 policy changed from proprietary to CC0 in 2013
 - The openEHR project has developed specification with FLOSS and published as ISO 13606
- But still remains “non-free standards”
 - Mainly terminology domain

Clinical/Medical terminology

- Fundamental basis of medicine
 - Anatomy, Biology, Biochemistry, Pharmacology, Procedure, Pathology...
- ICD series
 - International Classification of Disease.
 - Basis of world wide statistics of health and epidemiology
 - Used for categorized evidence of insurance payment
- SNOMED-CT
 - The hugest clinical terminology system with more than 300,000 terms by ontology theoretical background.

ICD10 License

- WHO is license holder
- License for commercial use
 - Non-exclusive, non-transferable, and time-limited
 - Authorizes the use of codes in a product that will be distributed to customers in specific countries.
 - Not permitted to modify, translate or amend the codes or description of the codes in any way.
- License for internal use with its own organization.
 - Need registry
 - Not transmittable
- License for non-commercial use
 - Need registry
 - Only for research

SNOMED-CT license

- The hugest terminology with ontological hierarchy
- IHTSDO(International Health Terminology Standards Development Organization) is the license owner.
 - North America and Europe
- No charge for member countries
- Affiliate license for non-member countries
 - Country membership fee by GDP escalation
 - Fee for hospital, academic, personal, commercial use

What the problems are

- Software distribution
 - Conflicts of FLOSS license
 - Regulation/limitation for countries
- Cost sharing
 - Development for terminology
 - Update, maintain, governance for 300,000 terms(SNOMED-CT)
 - Domain specialists, academic society
 - Massive efforts

Discussion

- Terminology users should share the costs
 - The costs were funded by our taxes(WHO)
 - It is controversy how to re-fund IHTSDO costs with non-member countries.
- Qualified members should be engaged in to terminology
 - Wikipedia shows the evidence that it is not inferior to established encyclopedia.

What can we do?

- Action to change license of existing terminology
 - They know what the problem is, and they are moving to.
- Wikipedia way to clinical terminology
 - OpenGalen, MyNA
 - Wikipedia extraction for clinical terminology