

Health Record Archive in ODF

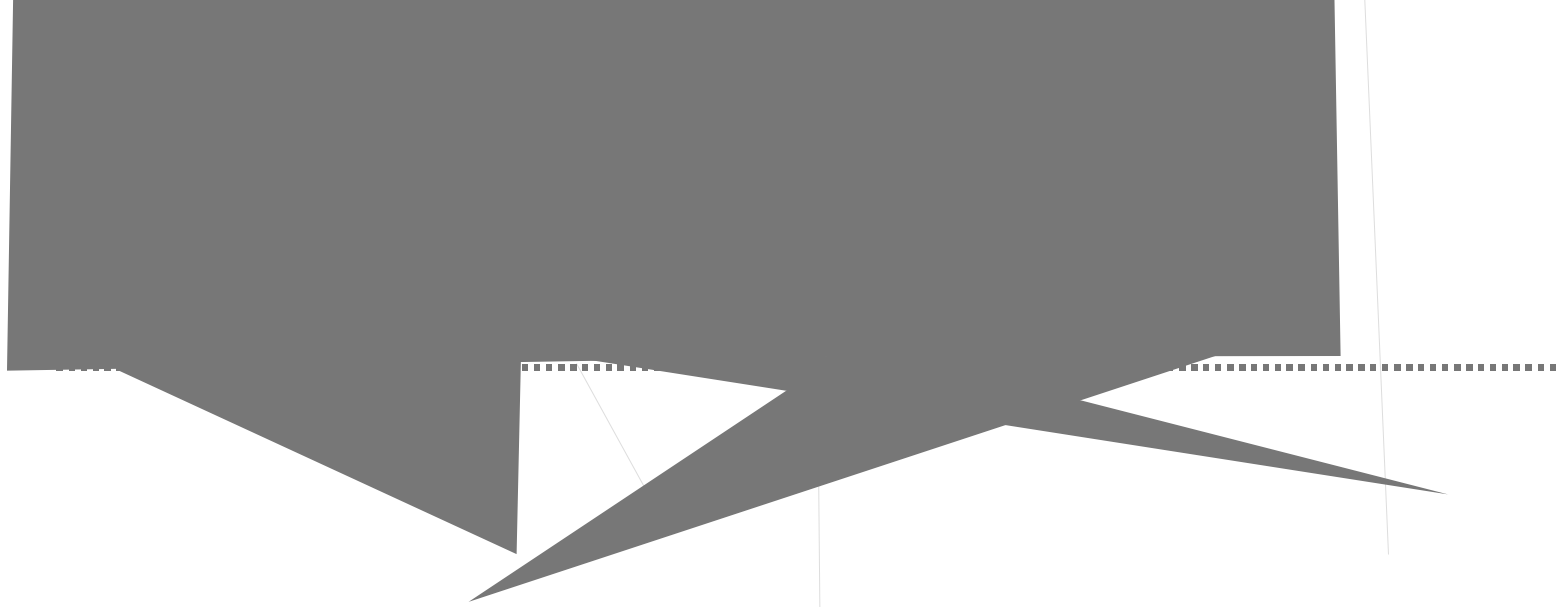


2007.10.07



Agenda

- 1. Health Record Archive Requirement in China**
- 2. Structured and Un-structured Health Record**
- 3. ODF document fit for Health Record Archive**
- 4. Future of Health Record with ODF**
- 5. Technical Challenges and Suggestions**
- 6. Important of Longitudinal Health Record with Open Standard**





Structured and Un-structured Medical Records

- Structured Medical Record
 - +redefined categories, fields and vocabularies
 - Easy for operation (input, update and computing) (statistics, real time processing)
 - Mostly for payment setting, order tracking and other transactional purpose
- Unstructured Medical Record
 - Natural language deep core medical knowledge of the doctor
 - Extensive categories and vocabularies
 - Extract knowledge (by human reading)
- Natural language processing (interpretation) process
 - Convert some unstructured information to structured information
- Deep core unstructured information of health record for future processing



ODF for Health Record Archive

- , i&ilar Operation on Medical Record Archive on +aper
 - 8eep any in%or&ation visually and se&antically as on paper
 - 8eep structured and un7structured in%or&ation in one place as on paper
 - 8eep &edical in%or&ation as / ell as e 'pense in%or&ation
- , tore in - M. data(ase %or)eneral research
 - , uita(le %or hospital / ide and re)ional archive repository
 - " o&ple' 4query %or (usiness intelli)ence study
- " ollect data &edical record %ro& various &edical syste&s
 - +atient centric vie / in one ODF docu&ent
- 8eep structured in%or&ation in - FORM &odel
 - Easy %or e 'chan) e and processin)

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More Details

- One ODF document for each encounter
 - Provide practice and information collection standard / with templates
 - Templates for structured and unstructured information
 - Different template for different encounter
- Associated documents in repositories for one person
- Document access and sharing in different approach
 - Mail on disc / online via /
 - Human read and machine processing
- Specialized record editor for accessing health record archive
 - Front end of the archive
 - Compose archive document from various sources
 - Access document in archive and feed other requesters



Future of Health Record with ODF

- For health care practice people !doctor* nurse* 9 \$
 - Key & essential in practice !alerts* trends : graphs\$
 - Health & maintenance reminders
 - Medical treatment decision support
 - Practice guidelines
 - Referrals
- For government* insurance companies and other related parties
 - Population disease & analytics
 - Regional and national /ide e'pense & analytics
 - Public health care decision support
 - Critical situation alert
- For people
 - Patient education / with clinical documentation
 - , election) , service provider
 - Personal health planning)



Technical Challenges

- E'chan) e (et / een ODF / ith & edical & essa) e standards
 - H.7* " DA
- , peciali3ed editor5vie / er %or accessin) the archive
 - Easy %or / ritin) and vie / in)
 - , uita (le %or or) ani3ation and users in di%%erent %inancial situation
- 8no / led) e & inin) on lar) e health record archive in ODF
 - ODF provide & ore possi (ility and challen) e %or data & inin)
 - , tructured and un7structured in%or&ation



Importance of Longitudinal Health Record with Open Standard

- EHR is an aggregation of patient-centric health data that originates in the patient record systems of multiple independent healthcare organizations for the purpose of facilitating care across multiple organizations
- EHR helps develop innovation to completely reinvent healthcare delivery and administration with economic benefits
- It can help advance the progress of medical science at previously impossible speed for the benefit of humanity
- Open standards play a critical role as it enables
 - Greater Flexibility
 - Smoother Interoperability
 - Vendor Lock-in Avoidance
 - Most Effectiveness
 - Ensure Future Access to Innovation
 - Preserve Technology Choice
 - Maintain Freedom of Action



Thank
You