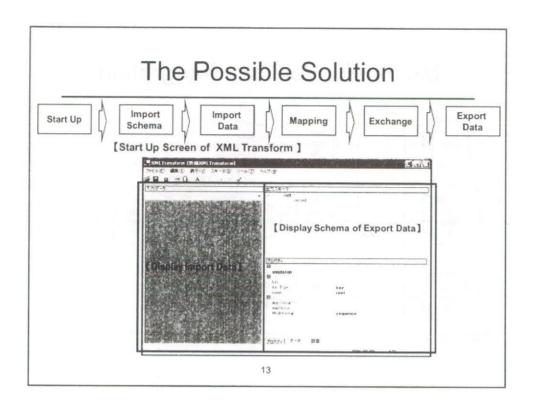
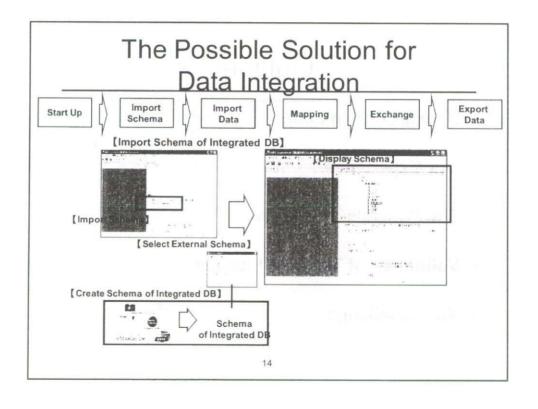
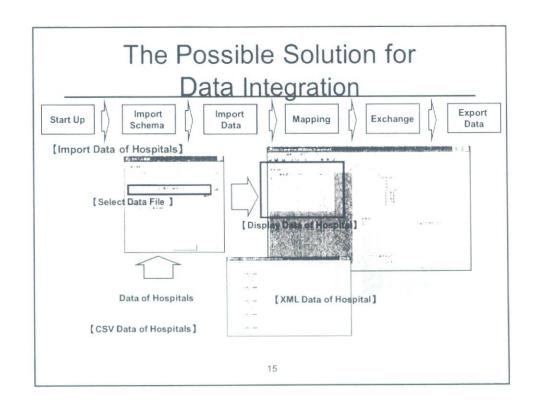


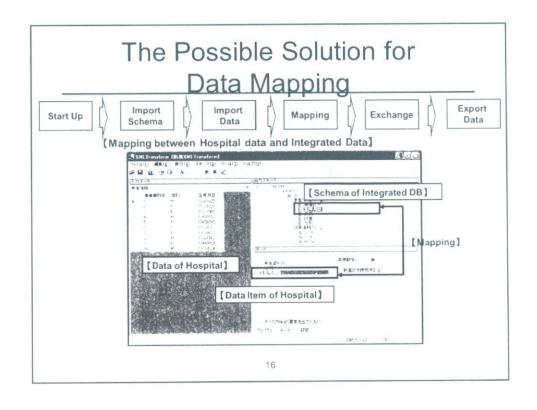
Outline

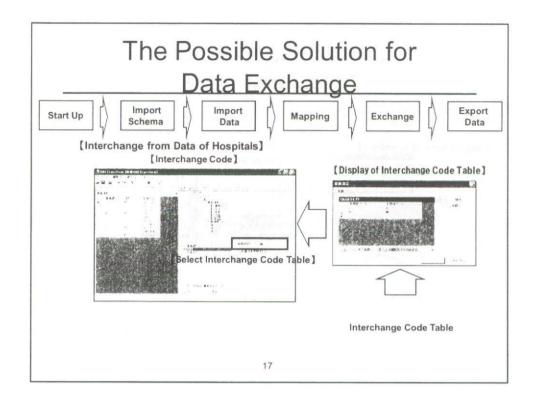
- · Background in Japan
- Our Experience
- · The Possible Solutions
- · Validation of Technical Issues
- Next Challenge

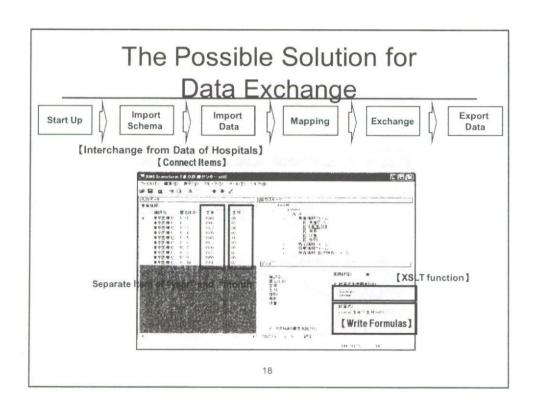


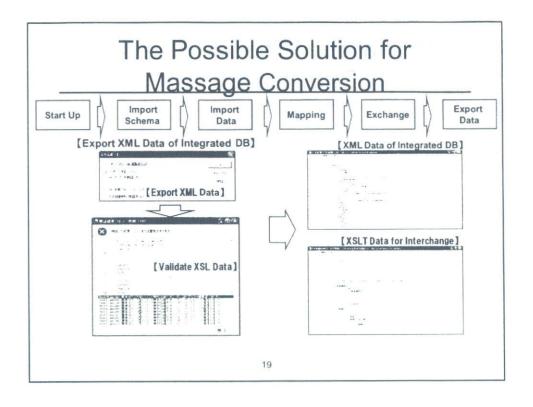






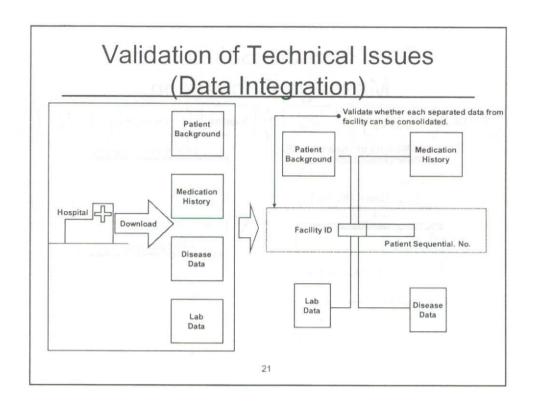


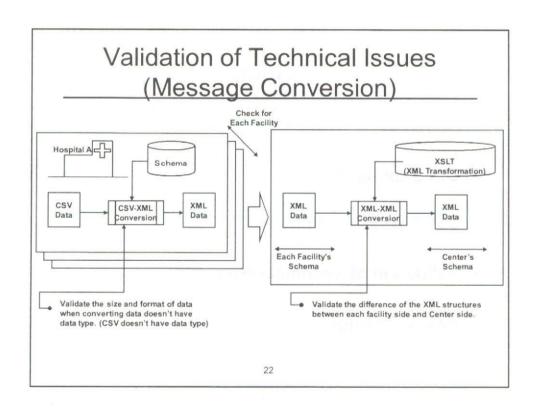


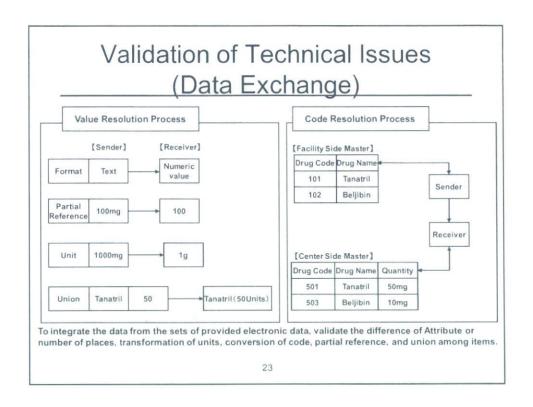


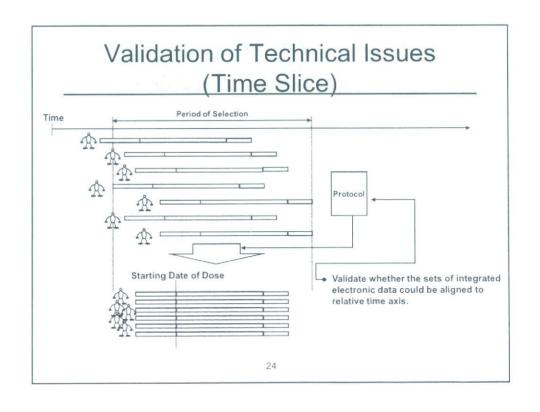
Outline

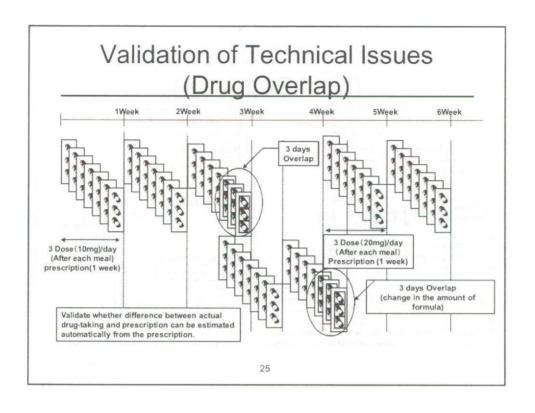
- · Background in Japan
- Our Experience
- · The Possible Solutions
- · Validation of Technical Issues
- Next Challenge

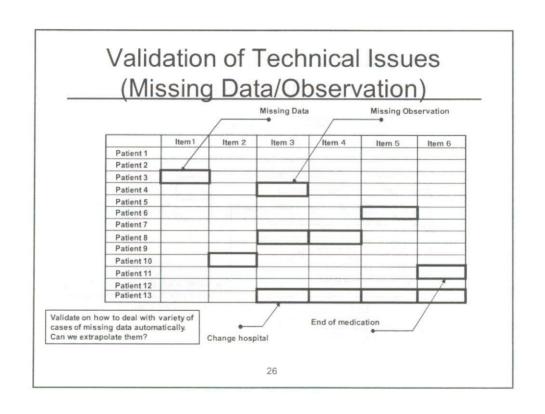












Outline

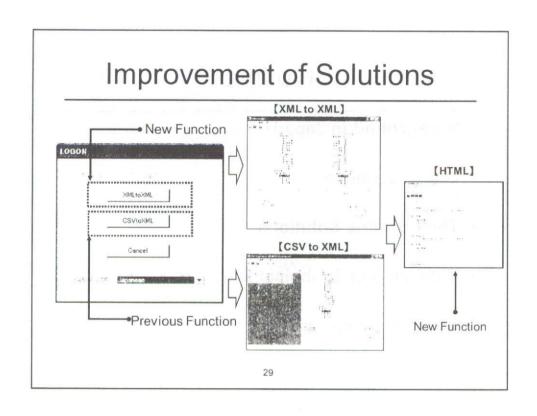
- · Background in Japan
- Our Experience
- · The Possible Solutions
- · Validation of Technical Issues
- Next Challenge

Improvement of Solutions

- Combine EDC
- Transform XML to XML

 ([Now] Transform Plane XML, in other words CSV, to XML)
- Display at Browser (Human Readable)
- Editing missing data and error data at entry screen
- Function of data cleaning
- Templates (CDISC ODM Model, Define.xml, E2B, HL7 CDA, eCTD ect)

28



Improvement of Solutions

	New MHLW Research	Previous MHLW Research
Study Type	Prospective Study	Retrospective Study
Therapy Aria	Oncology	Cardiovascular
Adverse Event Data	Target Data	NO DATA
Data Capture	EDC + Data Extraction	Data Extraction
Time of Extraction	Several Times	Once

30

Our Experience and Significance in a Japanese Sentinel Network System

Mitasato Univ. School of Pharmaceutical Science
Division of Biostatistics and Pharmaceutical Medicine
Masahiro Takeuchi



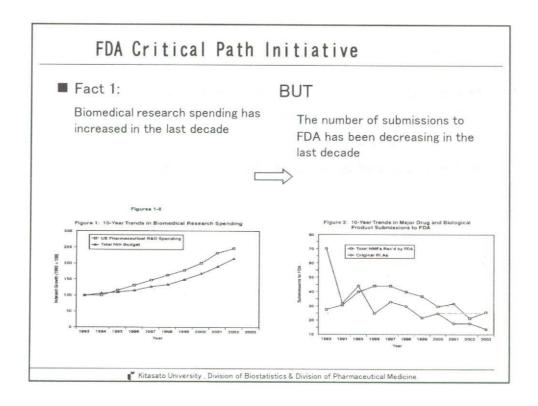
Outline

- The Impact of US FDA Critical Path Initiative on New Drug Development
- The Current Situation in Japan
- The Impact of a Sentinel Network System in Japan

Kitasato University Division of Biostatistics & Division of Pharmaceutical Medicine

- The Impact of US FDA Critical Path Initiative on New Drug Development
- The Current Situation in Japan
- The Impact of a Sentinel Network System in Japan

Kitasato University , Division of Biostatistics & Division of Pharmaceutical Medicine.



FDA Critical Path Initiative

Fact 2:

Biomedical science has been blooming, allowing for discovery of innovative products

BUT

Promising innovative candidates has been evaluated by the last century's tool

The success rate of Phase III is 50%



Science for science has advanced

Science for society has not advanced

No return to taxpayer

Kitasato University , Division of Biostatistics & Division of Pharmaceutical Medicine

FDA Critical Path Initiative

■ Goal:

The application of a new concept is required:

Computer modeling techniques, biomarkers, clinical trial endpoints —— for efficiency and effectiveness



The innovative clinical trial method is required

Kitasato University . Division of Biostatistics & Division of Pharmaceutical Medicine

- The Impact of US FDA Critical Path Initiative on New Drug Development
- The Current Situation in Japan
- The Issues to be Concerned

Kitasato University , Division of Biostatistics & Division of Pharmaceutical Medicine

Current Situation in Japan

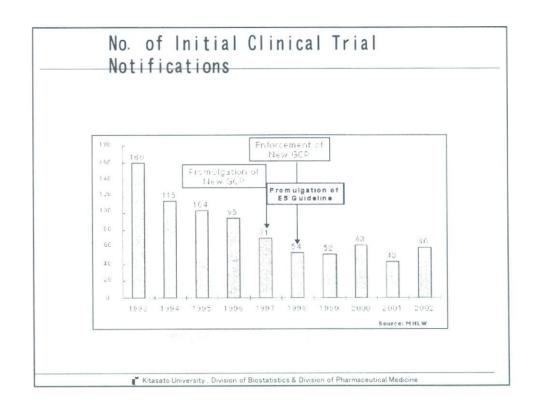
· Clinical Trial Costs:

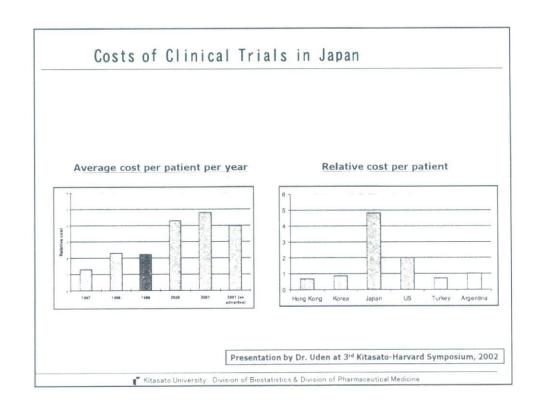
Very High

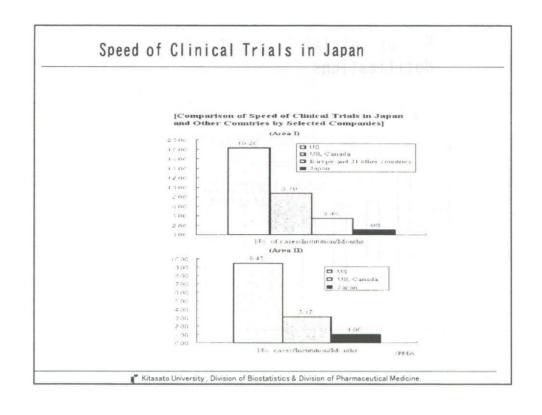
• Numbers of Clinical Trials:

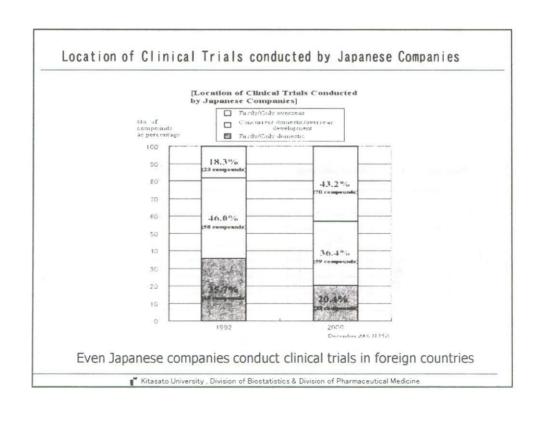
Diminishing

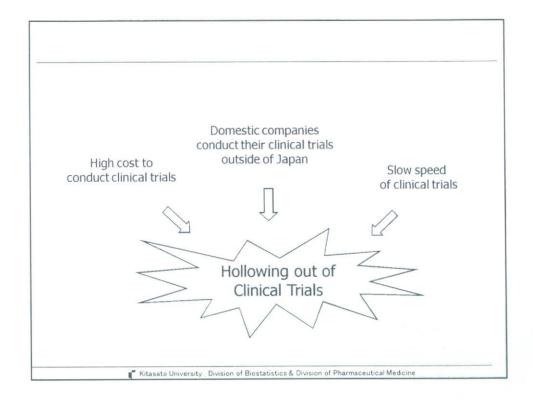
Kitasato University . Division of Biostatistics & Division of Pharmaceutical Medicine

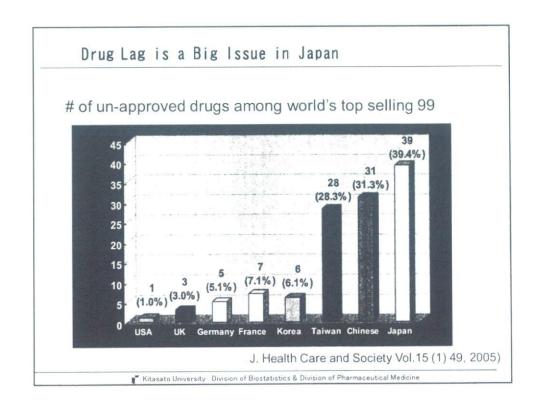






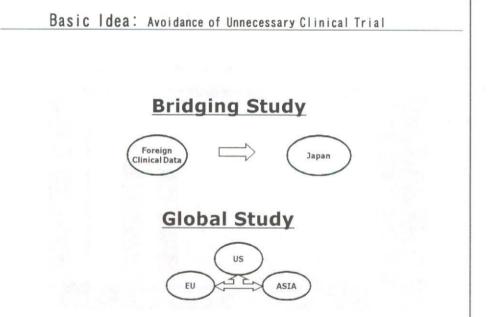






- The Impact of US FDA Critical Path Initiative on New Drug Development
- The Current Situation in Japan: Part 2
- The Issues to be Concerned

Kitasato University, Division of Biostatistics & Division of Pharmaceutical Medicine.



🇗 Kitasato University , Division of Biostatistics & Division of Pharmaceutical Medicine

Participation in Asian and Multinational Global Study

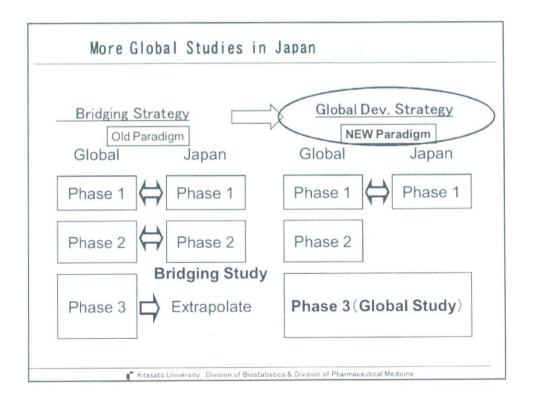
- Bridging study
 - ◆Intrinsic and extrinsic factors
- Participation in Asian and Global Studies
 - Apply existing extrapolation of data to an ongoing study i.e. mutual extrapolation of data

Appropriate dosage in new regions



Key point

Kitasato University , Division of Biostatistics & Division of Pharmaceutical Medicine.



- The Impact of US FDA Critical Path Initiative on New Drug Development
- The Current Situation in Japan
- The Impact of a Sentinel Network System in Japan

Kitasato University , Division of Biostatistics & Division of Pharmaceutical Medicine.

Critical Issues

- Application of New Approach:
 - the number of exposed pts has decreased
 - Efficacy can be evaluated through extrapolation of data
 - Safety issues can be region-oriented:
 Several racial oriented adverse events have been reported

We need guarantee of safety to pts

- need safety network: monitoring system
- need scientific pharmacovigillance investigation

Kitasato University , Division of Biostatistics & Division of Pharmaceutical Medicine