

Integrating the Healthcare Enterprise

IHE LAB committee

Face to Face meeting in Chicago

Japanese Activities

February 5 , 2013

IHE-Japan Laboratory Planning/Technical Committee

Agenda

- IHE Implementations
- Connectathon Japan 2012
- Deployment activities
- JLAC10

Implementations in Japan (IHE-LAB)

- **Okazaki City Hospital: 2006**

LTW <W-MB& LBL (2013)



- **National Institute of Radiological Sciences (NIRS) Hospital: 2006**

LTW <W-MB& LBL (2012)



- **Fujitsu Healthcare Center and Fujitsu Hospital: 2009**

LTW



- **Akita University Hospital: 2009**

LTW



Implementations in Japan (IHE-LAB)

- **Kyoto 1st Red Cross Hospital: 2009**

LTW & LBL



- **University of the Ryukyus Hospital: 2010**

LBL



- **Yokosuka City Hospital: 2010**

LTW



- **Okayama Red Cross Hospital: 2010**

LTW



Implementations in Japan (IHE-LAB)

- **Osaka Medical college Hospital: 2012**
LTW <W-MB& LBL



Total 9 hospitals

Hos





Connectathon Japan 2012

Connectathon Japan 2012



October 29-November 2, 2012 @Tokyo

Tested Integration Profiles for Connectathon 2012

Only for Laboratory Domain

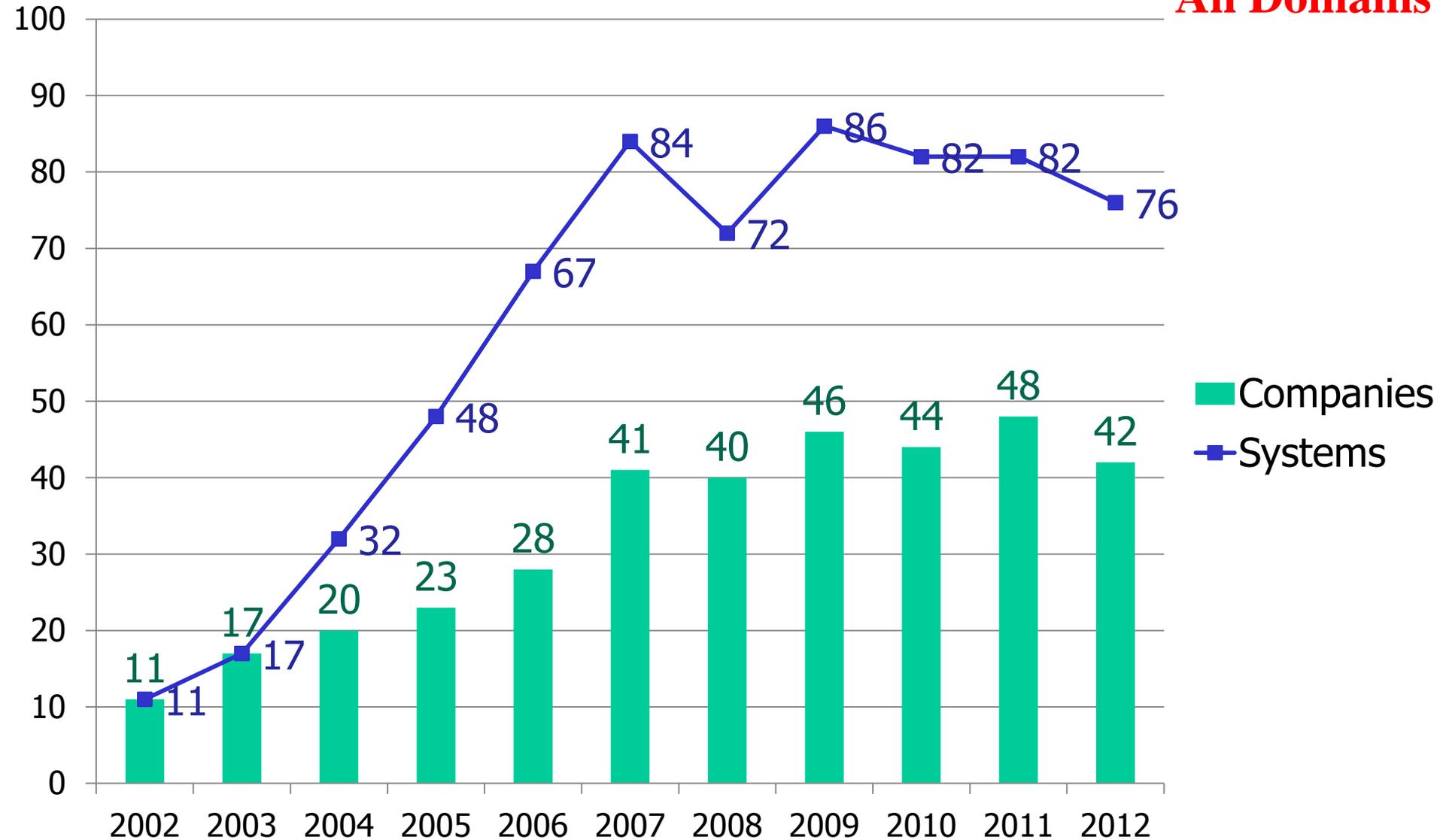
- **LTW**
- **LTW-MB (Micro Biology)**
- **LDA**
- **LBL**
- **LPOCT**
- **GIR LTW Option**

Only for Laboratory Domain

- **Test code : JLAC10 code**
 - **By Japanese Society of Laboratory Medicine**
 - **Used for information systems and analyzer**
- **Bacterial name : JANIS code**
 - JANIS: Japan Nosocomial Infections Surveillance**
(committee of hospital infection surveillance)
- **Patient Information : PAM, PDQ profile (ITI)**

of participant of Connectathon Japan

All Domains



Connectathon Japan 2012 Result (Laboratory)

**14 Companies and
18 Systems**

PROFILE	LBL		LDA		LPOCT		LTW			LTW-MB (Micro Biology)			
					OF	POCDM	OF	OP	ORT	OF	OP	ORT	
PASSED	1	11	4	1	1	2	1	6	8	8	3	4	4
A&T		○	○			○		○			○		
Apius									○	○			
BECKMAN COULTER (New)		○						○*					
Fujitsu		○	○					○		○		○	○
Hitachi									○	○			
Hitachi High-Tec				○									
Hitachi Solutions					○								
Hitachi Solutions		○	○					○			○		
IBM Japan		○							○	○*		○	○
iTEC Hankyu Hanshin		○	○			○		○*					
NEC		○							○	○			
NEC		○						○					
Ryobi Systems		○							○	○		○	○
Software Service		○							○	○		○	○
Techno Medica	○												
Toshiba Medical Information Systems							○						
Toshiba Medical Information Systems									○	○			

* : Supplement (GIR Graphics and Simple Image in Result)



Deployment Activities

IHE–Japan Lab Planning/Technical Committee

- The PC/TC joint meeting is held once a month
- Members : Physicians, Medical technologists, HIS venders, LIS venders, Analyzer manufacturers



- JAHIS is one of the sponsor of IHE lab



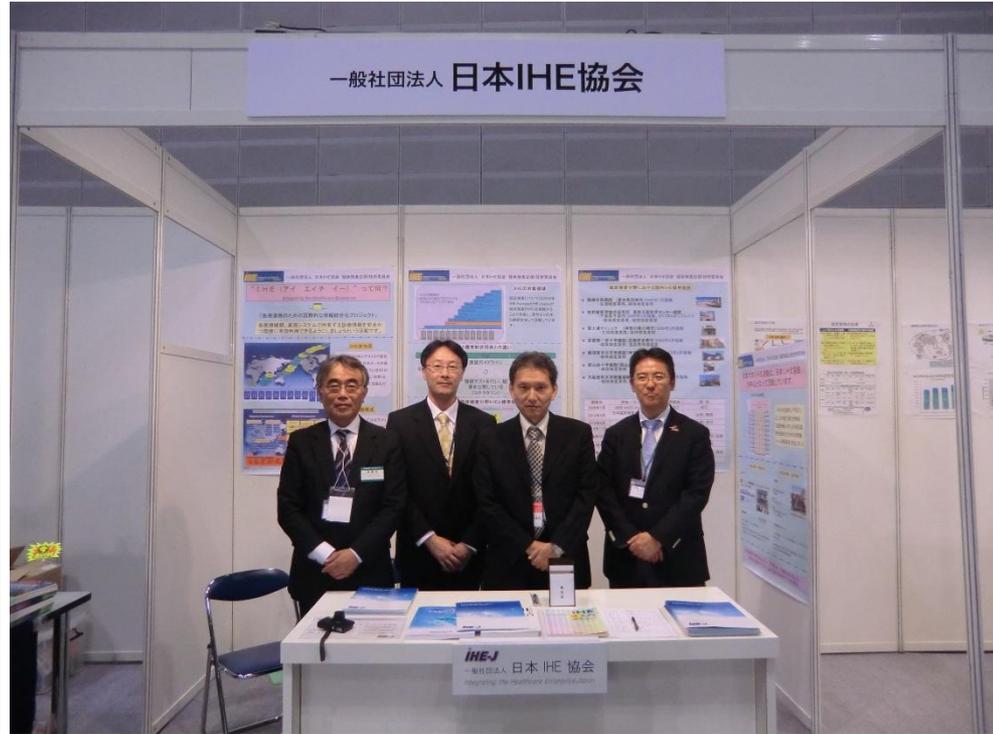
Congresses and Workshops

Date	Congress/Workshop	City, Country	Member
June 8-10,2012	The 61th Annual Scientific Meeting of the Japanese Association of Medical Technologists and Scientific Exhibition	Tsu ,Japan	Hirasawa and many
September 1,2012	IHE-J LAB Workshop in Tokyo	Tokyo, Japan	Kato Iguchi Yamada Chiba Ishii Hirasawa
October 11-13, 2012	The 44th Annual Meeting of Japan Society for Clinical Laboratory Automation	Yokohama, Japan	Yamada Shimizu Okada etc.
November 16-17, 2012	The 32th Joint Conference on Medical Information	Niigata, Japan	Iguchi Yamada Chiba Ishii Hirasawa etc.
November 30- December 1,2012	The 59th National Congress of Japanese Society of Laboratory Medicine	Kyoto, Japan	Yamada Kato Okada
December 8,2012	IHE-J Workshop in Kumamoto	Kumamoto, Japan	Iguchi
January 12,2013	Ishikawa Association of Medical Technologists Seminar	Kanazawa, Japan	Iguchi Okada

Information Booth of IHE-Japan



The 61th Annual Scientific Meeting of the Japanese Association of Medical Technologists and Scientific Exhibition



The 44th Annual Meeting of Japan Society for Clinical Laboratory Automation

Session on IHE Lab at Congress



The 32th Joint Conference on Medical Information



JLAC10



JLAC10

- Background
- Structure of JLAC10
- Why JLAC10 ?

Background

- Government and Societies decision to use JLAC10
 - Government standards
 - Japanese Society of Laboratory Medicine
 - Japan Association for Medical informatics
- Purpose
 - National Database
 - Research
 - Multi axis code : 5 components
 - ✓ Ease of derived statistics

Government (MHLW) Standards

MHLW : Ministry of Health, Labour and Welfare

We have 12 standards for medical informatics now.

- HS001 Standard Master for Pharmaceutical Products (HOT reference numbers)
- HS005 ICD10 Based Standard Disease Code Master for EMR
- HS007 Patient Referral Document & Clinical Data Document
- HS008 Referral Document
- HS009 IHE PDI Integration Profile, and Its Application Guideline
- HS010 ISO/TS11073-92001:2007, Health informatics -Medical waveform format
- HS011 Digital Imaging and Communications in Medicine (DICOM)
- HS012 The JAHIS Protocol for Clinical Laboratory Data Communication
- HS013 Standard Dental Disease Code Master (ICD)
- **HS014 Laboratory Test Code Master (JLAC10)**
- HS016 The JAHIS Protocol for Radiology Data Communication
- HS017 Interoperability Guideline (JJ1017 Guideline)

Structure of JLAC10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Analyte code					Identification code				Specimen code			Methodology code		Result Identifying code		

- **Analyte code**

It serves to classify the material subjected to test by 5 digit numbers according to the predetermined by laws. As exception, “reaction” may be substituted by “substance” in some cases.

[i.e.] occult blood reaction, TTT, ZTT

- **Identification code**

When the tests needs further classification of the analyte code above, it will be done so by applying 4 digit numbers.

[i.e.] classification of viruses, virus antibody titer, allergens, lymphocytes

- **Specimen code**

It serves to classify the specimen of a test item by applying 3 digit numbers.

- **Methodology code**

It serves to classify the Methodologies of a test item by applying 3 digit numbers.

- **Result Identifying code**

It serves to classify the test results, regardless of the number of the result, of a test item by applying 2 digit numbers.

Example of JLAC10 (for order)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Analyte code					Identification code				Specimen code			Methodology code				

- Example**

serum herpes simplex virus IgG antibody titer(ELISA)

spinal fluid herpes simplex virus CF antibody titer(CF)

serum herpes simplex neutralizing antibody titer(NT)

- Analyte :** herpes simplex **5F190**

- Identification:** virus antibody **1430**

virus antibody IgG **1431**

- Specimen :** serum **023**

spinal fluid **041**

- Methodology:** ELISA **022**

CF **141**

virus neutralizing **151**

- JLAC10 code for order**

serum herpes simplex virus IgG antibody titer(ELISA) **5F190-1431-023-022**

spinal fluid herpes simplex virus CF antibody titer(CF) **5F190-1430-041-141**

serum herpes simplex neutralizing antibody titer(NT) **5F190-1430-023-151**

Example of JLAC10 (for result)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Analyte code					Identification code				Specimen code			Methodology code		Result Identifying code		

- JLAC10 code for order**

serum herpes simplex virus IgG antibody titer(ELISA)	5F190-1431-023-022
spinal fluid herpes simplex virus CF antibody titer(CF)	5F190-1430-041-141
serum herpes simplex neutralizing antibody titer(NT)	5F190-1430-023-151

- Result Identifying:**

dilution titer(General)	05
HSV-1 antigen(inherent)	51
HSV-2 antigen(inherent)	52

- JLAC10 code for result**

serum herpes simplex virus IgG antibody titer(ELISA)	5F190-1430-041-141-05
spinal fluid herpes simplex virus CF antibody titer(CF)	5F190-1430-023-151-51
serum herpes simplex neutralizing antibody titer(NT)	5F190-1430-023-151-52

Why JLAC10 ?

Why not LOINC?

- Government and Societies decision
- Many hospitals and national database are using
- Historical reason : using more than 20 years
 - Many equipment and systems support them
 - We are familiar with JLAC10 code
- No reason of change code JLAC10 to LOINC
 - If LOINC code is required, we can convert them

Agenda

- IHE Implementations
- Connectathon Japan 2012
- Deployment activities
- JLAC10

The logo for IHE-J Laboratory features the text "IHE-J" in a bold, purple, sans-serif font with a small red and yellow sphere above the "I". To its right, the word "Laboratory" is written in a purple, italicized serif font.

IHE-J *Laboratory*

Integrating the *Healthcare Enterprise* – *Japan*



<http://www.ihe-j.org>