







Utility of urinary hemosiderin test in the assessment of treatment for PNH waru Kohmarki, Maraki Hotta', Aya Iwata', Ruhiro Maeda', ination of urine hemosiderin may be useful e evaluation of intravascular hemolysis in PNH patients ction Extravascular hemolysis or Intravascular hemolysis

Commercial Collaboration between Oita-Oka Hospital and Local Clinics Facilitating Requests for Outpatient Services from Local Clinics

Introduction







Oita-Oka Hospital

- Hospital beds : 224
- Diagnostic and treatment departments : 23
- Community health care support

- Strong departments: emergency, cardiovascular

It has been over ten years since Oita-Oka Hospital started collaborating with private clinics. The program began in response to a general demand for access to diagnostic aids and medical imaging equipment from smaller hospitals and clinics in the area. In order to effectively meet the needs of these establishments, our program was designed based on responses to an open-ended survey.

Methods

Surveys were administered to doctors in neighboring hospitals and clinics by the Oita-Oka Hospital Collaboration Committee. Replies from 35 facilities were collected and analyzed. A list of the most in-demand outpatient services was compiled based on that analysis. Medical laboratory technologists then visited hospitals and clinics with the Collaboration Committee directly to explain the list of services being offered and to answer any questions.

Results

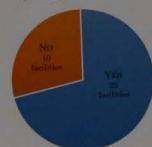
Survey result

1. Would you be interested in requesting blood tests on nights and holidays if available?



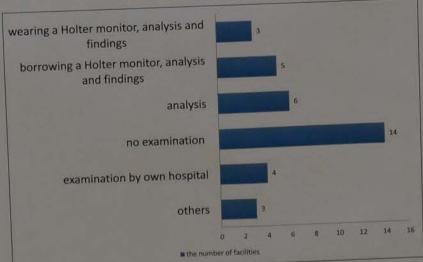
Comments;

- ·I want to request them on Saturday and Sunday.
- ·I want flow charts or a procedure manual.
- ·coagulation tests ·case-by-case
- 2. Would you be interested in requesting variety of ultrasound tests if available

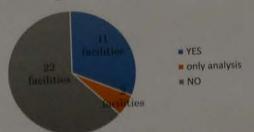


Comments;

- ·as the occasion arises ·heart, deep vein, artery and shunt
- ·depends on the hospital department recommendation
- ·I want a procedural manual
- 3-1. Would you tell me about the outsourcing of Holter examinations if applicable.



•3-2. Would you request or consider using Holter electrocardiography?



Conclusion

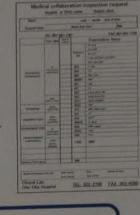
The number of requests from local hospitals and clinics has not been very numerous. Being able to meet the needs of doctors and patients and request tests on nights and holidays build trust and confidence in the local community. If this leads to more patient referrals, medical laboratory technologists will be better able to play an active part in supporting community health care.

Meet the needs of doctors

1. laboratory tests

·This began with doctors or medical staff delivering blood samples directly to Oita-Oka Hospital.

·Doctors using Oita-Oka Hospital's services for the first time were asked which tests they ordered most frequently. A list was made of their responses.

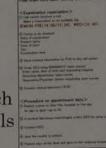


Requests were received from 3 facilities from May to December in 2015.

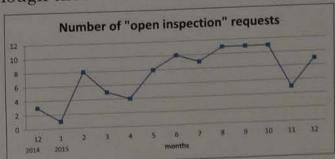
2. Physiological tests

·These have become 'open inspection' which means the results are given by the ordering doctor.

·Materials explaining how to order such tests were then distributed to hospitals and clinics.



·EEG, PFT, and NCV tests are also occasionally administered at the request of outside physicians. ·The number of PSG exams has also increased, although these are done by referral only.



· However, only the number of Holter examinations did not increase!!

Future measures ·Send reports via the internet · Establish analyzing center and report quickly

♦ Hospital and clinics which requested our services.



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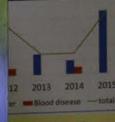
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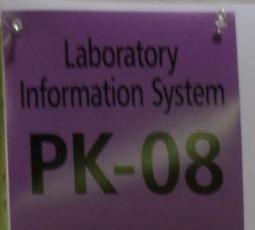
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Use it for Infection Control

Naoki INOUE, Akira YOKOKAWA, Kazuya SHIRAISHI, Koichi SHIMIZU, Hana HIYAMIZU

KAWAGUCHI KOGYO GENERAL HOSPITAL

ave you ever thought about if the

tourniquets are good hygiene? Absolutely, it depends on the way you use it. In my work place, I have usually used it for every patient without any cleaning. So then, my answer was "always!!". I have wanted to make that practice better. At first, I looked for the reports about how hygienic the tourniquets are. Then, World Health Organization (WHO) says that "tourniquets are a potential source of methicillin-resistant Staphylococcus aureus (MRSA), with up to 25% of tourniquets contaminated through lack of hand hygiene on the part of the phlebotomist or reuse of contaminated tourniquets.*1" Also, Centers for Disease Control and Prevention (CDC) says "MRSA is a bacteria that is resistant to many antibiotics. In the community, most MRSA infections are skin infections. In medical facilities, MRSA causes life-threatening bloodstream infections, pneumonia and surgical site infections.*2" After I read those articles, I started to think about it seriously and to make my plan concrete.

Next, what I should do is to prevent cross infections by using the tourniquets carefully. Moreover, I was often faced with patients who come back with bleeding due to insufficient hemostasis. I have seen it as a problem for safety and as a risk of infections.

So then, I investigated how contaminated the

tourniquets are, culturing the bacteria. There were 10 Cultured samples, which I used a tourniquet for every patient without any cleaning for 2 hours, and wiped it by swab. I sent it to culture. Next, I switch the reusable tourniquets for a single-use type for each patient. And I reuse it to stop patients bleeding with the tourniquet. I counted the patients who came back with bleeding, and compared those patients with a tourniquet to those without one for 5 days.

	0.00			table.1
sample A	- Car	bacteria S.epidermidis	M.luteus	Micrococcrs sp.
B C	1.3*10 ³ 1.1*10 ³	S.hominis M.luteus S.epidermidis	Pseudomonas sp. gram negative bacilli * M.luteus	B.subtilis Micrococcrs sp.
E		S.hominis Micrococcus sp.	M.luteus F. oryzihabitans	
G H	1,7*103	5.capitis 5.hominis	Pseudomonas sp. B. subtilis	P.agglomerans
1	1.4*10	5.warneri gram negative bacilli *		* not identified

band-free				Table	e.2
day	1	2	3	4	5
sample	120	109	86	122	84
bleeding	1	4	1	0	1
with hemostas	sis-band				
day	1	2	3	4	5
sample	107	89	65	79	71
bleeding	0	0	0	0	1

From Table.1

Bacterial contamination, including skin indigenous bacteria, were found in all of 10 tourniquets. MRSA was not found in any sample.

From Table.2

The number of patients with bleeding who use a band for stop bleeding was just 1 in over 400. Although, the number of patients with bleeding who stop bleeding by themselves were approximately 1 in 74. Moreover, one in over 400 seem that it happened because of insufficient band tension by phlebotomist. Since then, there are no patients with bleeding, and probability of it keeps going down.





HIthough there are no MRSA, it does not prove

enough hygiene, but indicates tourniquets are poor hygiene, which should not be ignored. To use the single-use type is one of the solutions for preventing the cross infections.

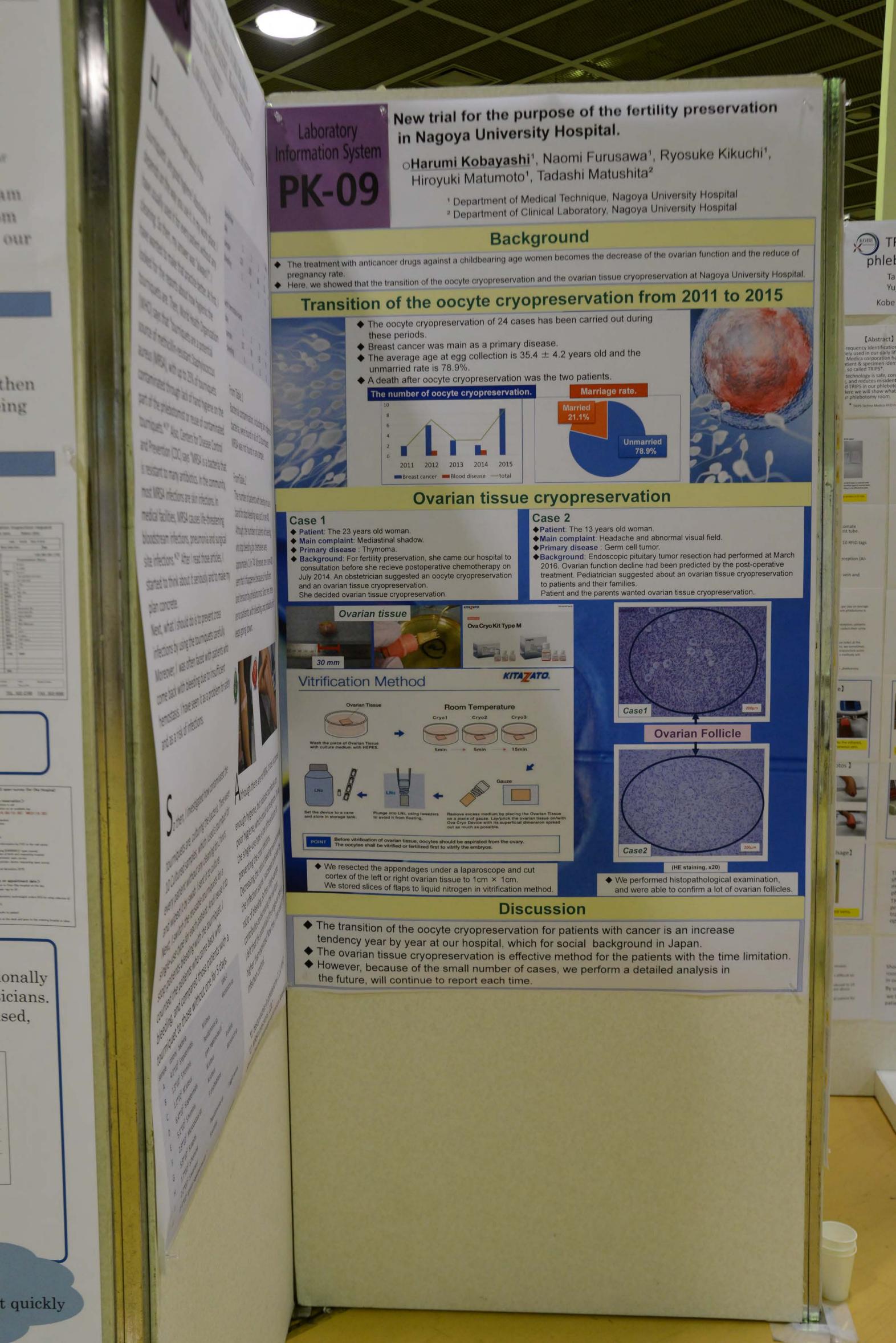
Decreasing the ratio of bleeding means decreasing the infection source. I succeeded to decrease the ratio of bleeding. So then, single-use type contributes to decreasing the risk factor. I felt that the potential of the single-use type is higher than expected. Now then, I have used it for infection control.

- *1. best practice in phlebotomy 2.1.4, WHO
- *2. MRSA infections, CDC

Special thanks language supervisor Rebekah

Ovarian tissu







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				Table	3
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Information System

Short Time Smoking Cessation Support by Clinical Technologist

Efficacy of semi-structured interviews for inpatients with CKD under educational hospitalization and outpatients

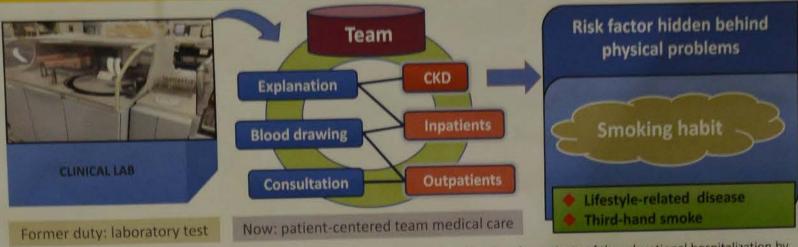
Takashi Yamamoto

Hitachi, Ltd., Hitachi General hospital Department of Clinical Technology

Yoshibumi Akatsu¹⁾ Nobuko kikuchi¹⁾ Ryo Morikawa MD⁴⁾ Takeshi Nawa MD,PhD³⁾ Atsushi Ueda MD,PhD²⁾

Department of Clinical Technology1) Department of Nephrology2) Respiratory Medicine 3) Metabolism Internal medicine 4)

Background



At a request of the department of nephrology, we are put in charge of clinical explanation for patients of the educational hospitalization by chronic kidney disease (CKD). The increasing opportunities to see various types of patients told us how serious physical problems coming from a lifestyle-related disease are. The evasion of smoking is particularly important to reduce health risks.

Objective

To confirm an effect of the smoking cessation support that a clinical technologist can perform in a short time.

Methods

Target persons: 234 patients who smoke. The patients were grouped into five stages according to Transtheoretical Model claimed by Prochaska.

Approach: Semi-structured interviews using Motivational interviewing(MI), 5A (Ask, Advise, Assess, Assist, Arrange) and 5R (Relevance, Risks, Rewards, Roadblocks, Repetition).

We repeatedly talked to them about smoking cessation during explanation on clinical examination. Smoking cessation support was carried out in less than one minute during blood drawing too.

Period of data collection: From March, 2015 to February, 2016

Statistical evaluation: chi-square test

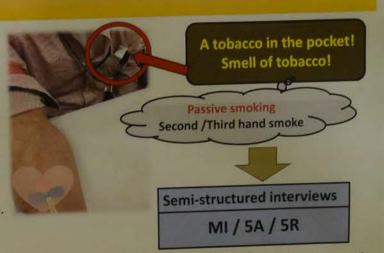


Figure 1 Flow of smoking cessation support

NOTE SEEMS DESIGNATED

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WHITE WAS THE

Results

Table1 Participants' distribution among five stages according to Transtheoretical Model

		(N=230)
stages	number	%
Precontemplation	105	(45.7%)
Contemplation	81	(35.2%)
	14	(6.1%)
Preparation	4	(1.7%)
Action	26	(11.3%)

→ More than 80% of the participants are not ready to stop smoking.

Table2 Difference of the results by the number of

pportunities.	opportunity	
	once(first time)	multiple
Succeeded	0	6*
Failed	212	16
total	212	22
total	(*:	<0.001)

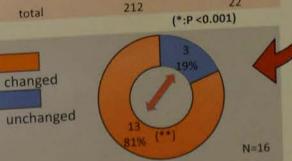
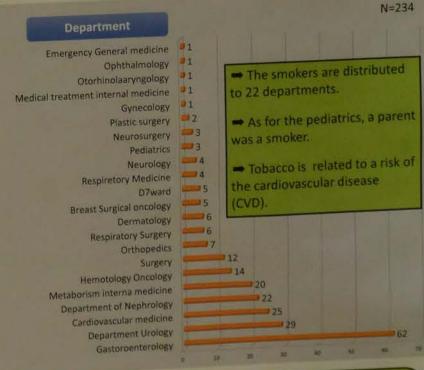


Figure 2 Change of the motivation towards smoking

Table3 Breakdown of the target persons



Continuous smoking cessation support led to successful smoking cessation i.e. to Maintenance stage. 6 led to smoking cessation (*:p<0.001).

Motivation changed positively even among those who failed to top smoking (**:P < 0.001).

•Even short time supports by clinical technologist work effectively and contribute to both patients' and their families' QOL.

·Clinical technologists can support patients and their families to improve their lifestyle.

·This finding leads us to improve quality and trust of clinical technologists.

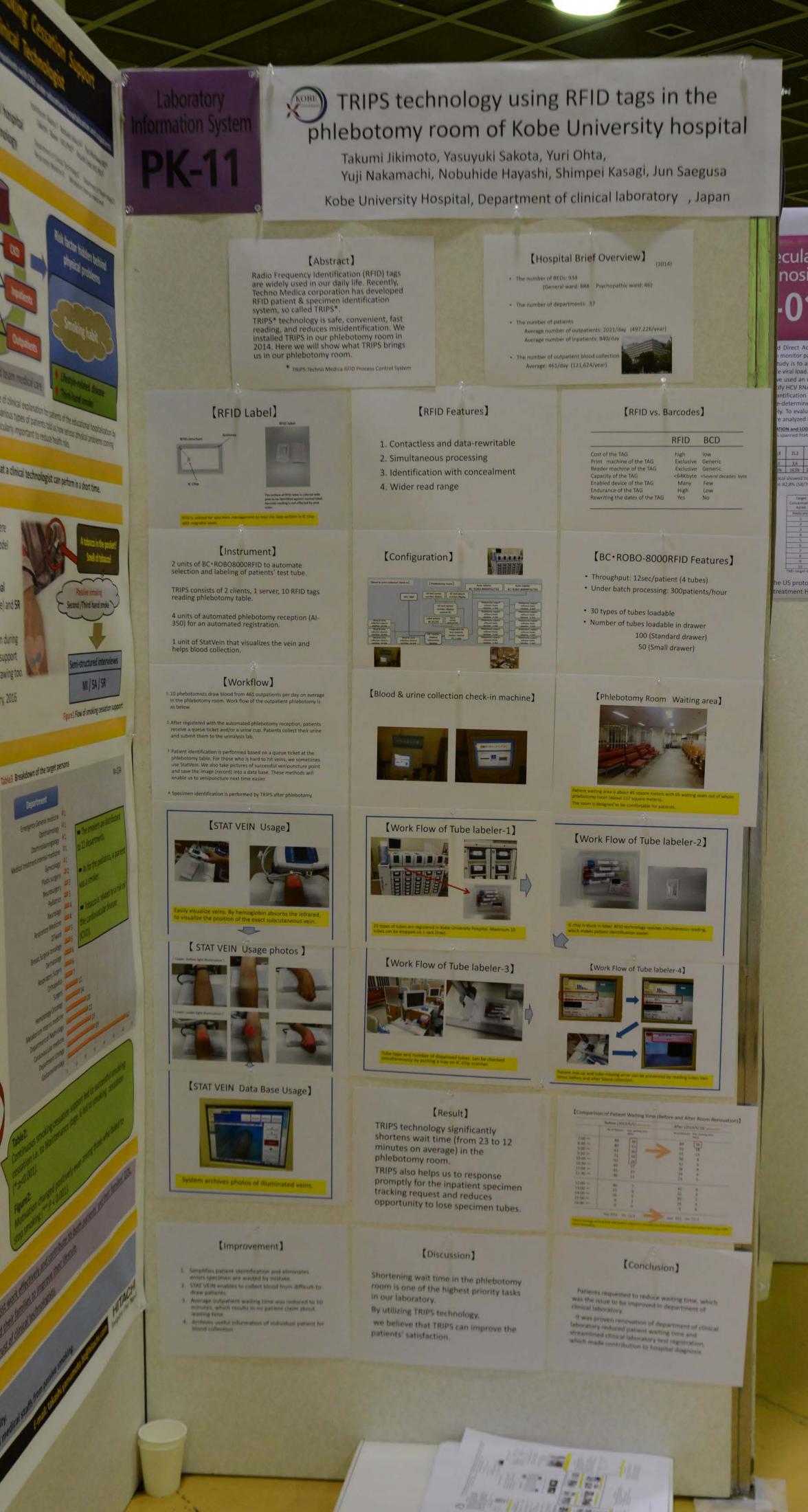
Future work

1) develop smoking cessation counseling ability. We aim to...

2) protect patients and families, children and medical staffs from passive smoking.

E-mail: takashi.yamamoto.bt@hitachi.com

HITACHI Inspire the Next



cular nosis



Determination of Low HCV Vira RealTime HCV Ultrasensitive P **Acting Antiviral Agents Therap**

Fabbio Marcuccilli 1, Marco Ciotti 1, Tania Guenci 1, S Valentina Serafini 1, Carlo Federico Perno 1, 2 Laboratory of Molecular Virology, Polyclinic Tor Vergata Foundation, Viale Oxf Department of Experimental Medicine and Surgery, University Tor Vergata of

Direct Acting Antiviral Agents (DAAs) have been developed to clear chronic HCV infection. Highly sensi

udy is to assess whether patients with detectable but not quantifiable viremia. have more frequently a retu

e used an ultrasensitive (US) protocol by introducing a modification of the Abbott RealTime HCV assay: large ify HCV RNA below the validated LOD (Limit of detection) of 12 IU/ml of the standard assay. RNA extraction was ntification with the Abbott m2000rt. To evaluate the analytical performances of the US protocol a clinical s determined by the Abbott RealTime HCV assay was diluted with Basematrix to the target concentrations of analyzed in 4 runs.

z	25.2	12,3	6.8	1.6	2.0	17
3	3,6	3,0	24	1,5	0,7	0,6
00	145%	24.2%	34.9%	43.3%	35,0%	3635

Target Concentration ILUmi	55.4	25,7	12.8	6.2	142	1881	14.8
Replicates		100					
4	ND.0	29.0	280	4.2	3.9	27	2,6
2	67,0	2.500	14.0	8.2	2.5	TNO	TNO
3.	46,0	79,8	1110	15.0	4.1	TND	TND
3	88(0)	20,01	12.0	-4.1	139	TND	TND
5.	52.0	29,27	13,0	7,5	1,3	TNO	IND
- 1	58.0	29,0	8.3	101.6	-tho	3.2	750
2	58.0	27,0	0.0	19,2	5,3	LX	190
	46.0	22,0	2.8	9,4	10		2.5
- 0	55,0	25.0	17.0	10.1	3,1	2.0	750
10	44,00		13.0	-8.0	6,4	12	

he US protocol of the Abbott RealTime HCV showed high precision, adequate LOD and it thus appropria reatment HCV RNA concentrations for DAA therapies

