

COVADIS Steering Committee Meeting 2017
(August 30, 2017, Barcelona, Spain)

Registry update

International Prospective Registry of CMD and VSA

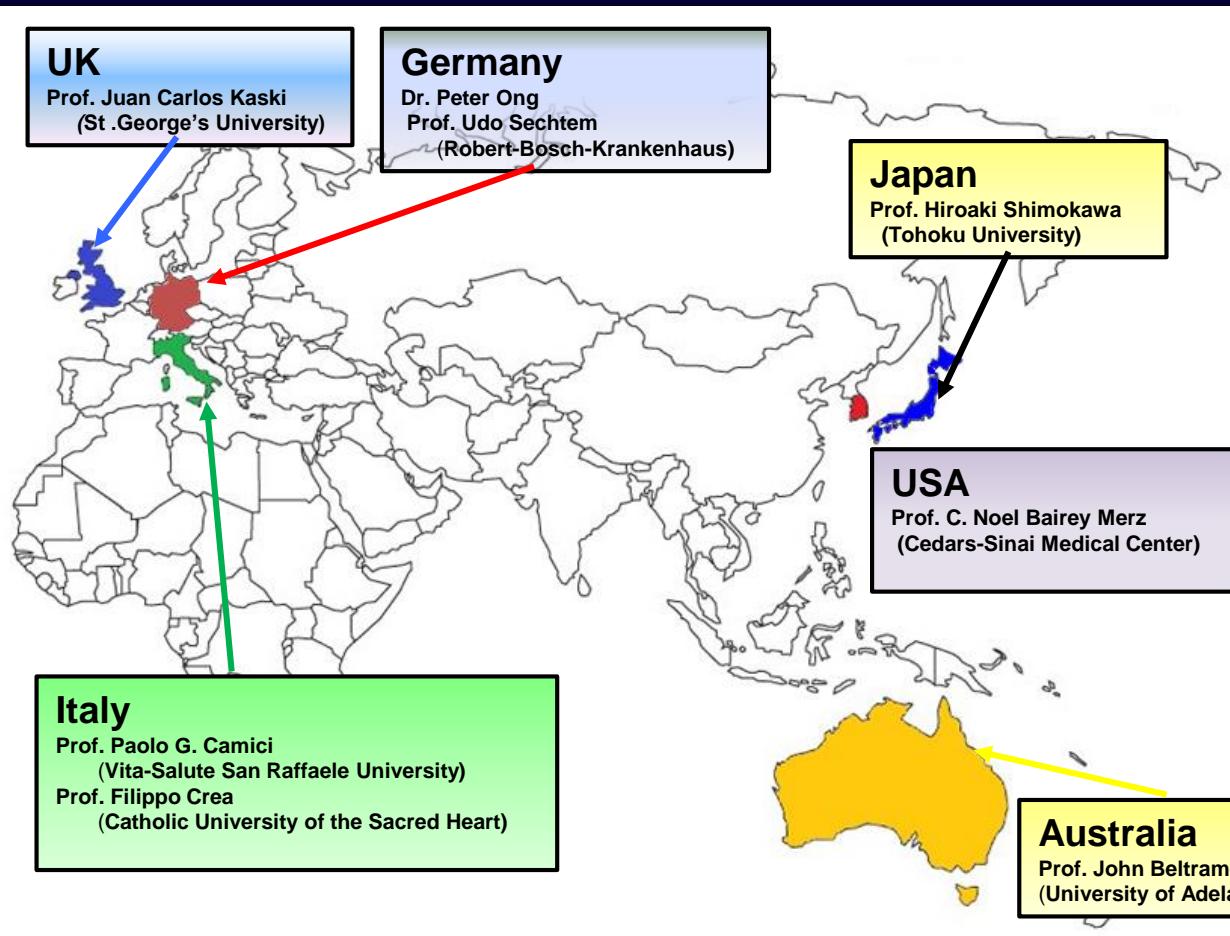
Hiroaki Shimokawa, MD, PhD

Professor and Chairman

**Department of Cardiovascular Medicine,
Tohoku University Graduate School of Medicine,
Sendai, Japan**

International prospective registry of coronary microvascular dysfunction (CMD)

Study design : Multicenter, **prospective** cohort



Entry period:
2015.7~2017.12

Follow-up period:
2015.7~2019.12

Web registration system

Website : Japanese coronary spasm association (JCSA)

URL : csa.cardiovascular-medicine.jp

csa.cardiovascular-medicine.jp

JCSA Japanese Coronary Spasm Association 冠 攣 縮 研 究 会

ホーム International Registry Studies

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- 多施設共同研究

International Registry Studies

FLASH PLAYER 9 from Adobe Systems, Inc., is required to use the WEB Registration System. If you have not already installed FLASH PLAYER 9, please do so by clicking in the following FLASH PLAYER download button to install this software.

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Please enter the data here

日本心臓財団 Japan Heart Foundation

*A user name and password are required for registration.
For details, please contact the Coronary Spasm Association Secretariat.

Secretariat office of Coronary Spasm Association: Department of Cardiovascular Medicine, Tohoku University Hospital
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International Registry Studies

- Japanese Coronary Spasm Association(JCSA)
- Coronary Vasomotor Disorder Study Group Summit(COVADIS)

- Vasospastic angina
- Microvascular angina**
- Isolated (Ampulla) cardiomyopathy

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JCSA/COVADIS International Registry of Microvascular Angina

Login Name : tohoku
Login Time : 2016/08/05 20:21:19
Change password Logout Menu

Close all Register new patient

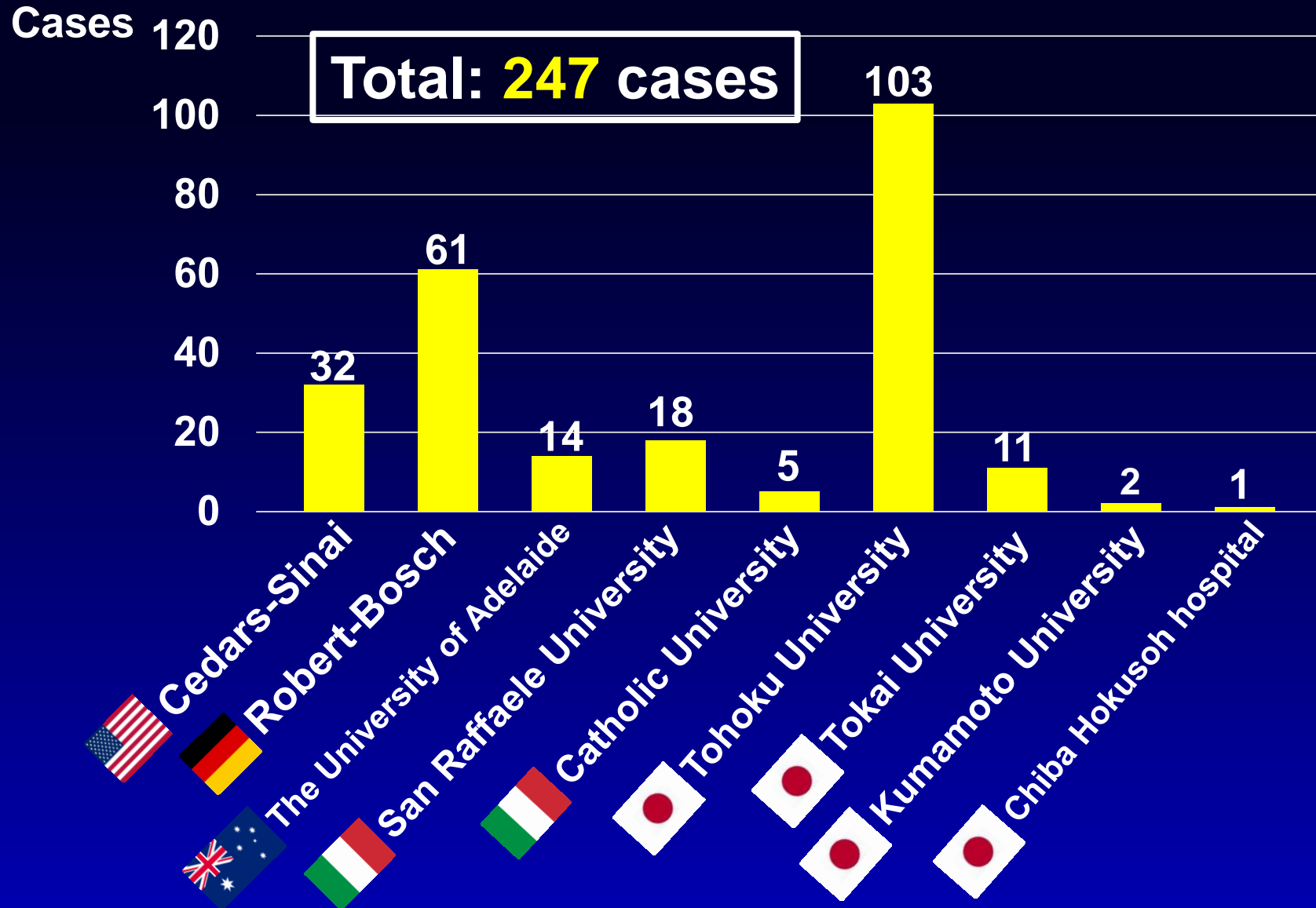
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7934432	Female	1954/2	2015/08/17		Complete	Delete
7714391	Female	1952/12	2016/03/17		On going	Delete
5396711	Female	1958/6	2016/03/17		On going	Delete
7086407	Male	1955/8	2016/03/17		On going	Delete
8014287	Male	1951/6	2016/03/17		On going	Delete
8001447	Female	1958/4	2016/03/17		On going	Delete
7975309	Male	1936/8	2016/03/17		On going	Delete
0172077	Female	1952/5	2016/03/17		On going	Delete
5471834	Male	1938/3	2016/03/17		On going	Delete
7662326	Male	1954/1	2016/03/17		On going	Delete
2124269	Female	1939/10	2016/03/17		On going	Delete
7986693	Male	1981/1	2016/03/17		On going	Delete
7993103	Male	1980/10	2016/03/17		On going	Delete

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Ver. 2015/12/10-001

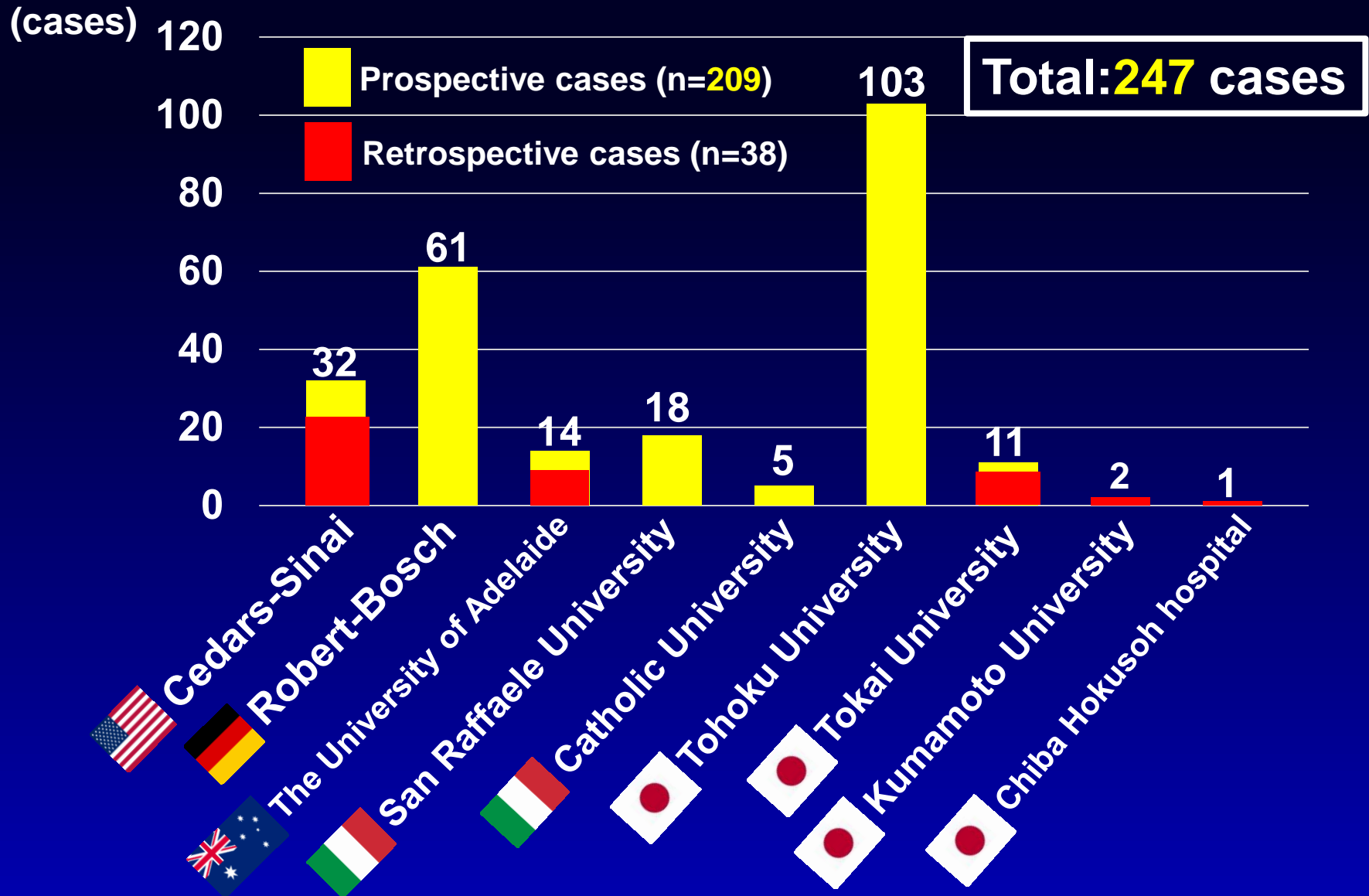
Number of patients enrolled

(July 1, 2015 ~ August 24, 2017)



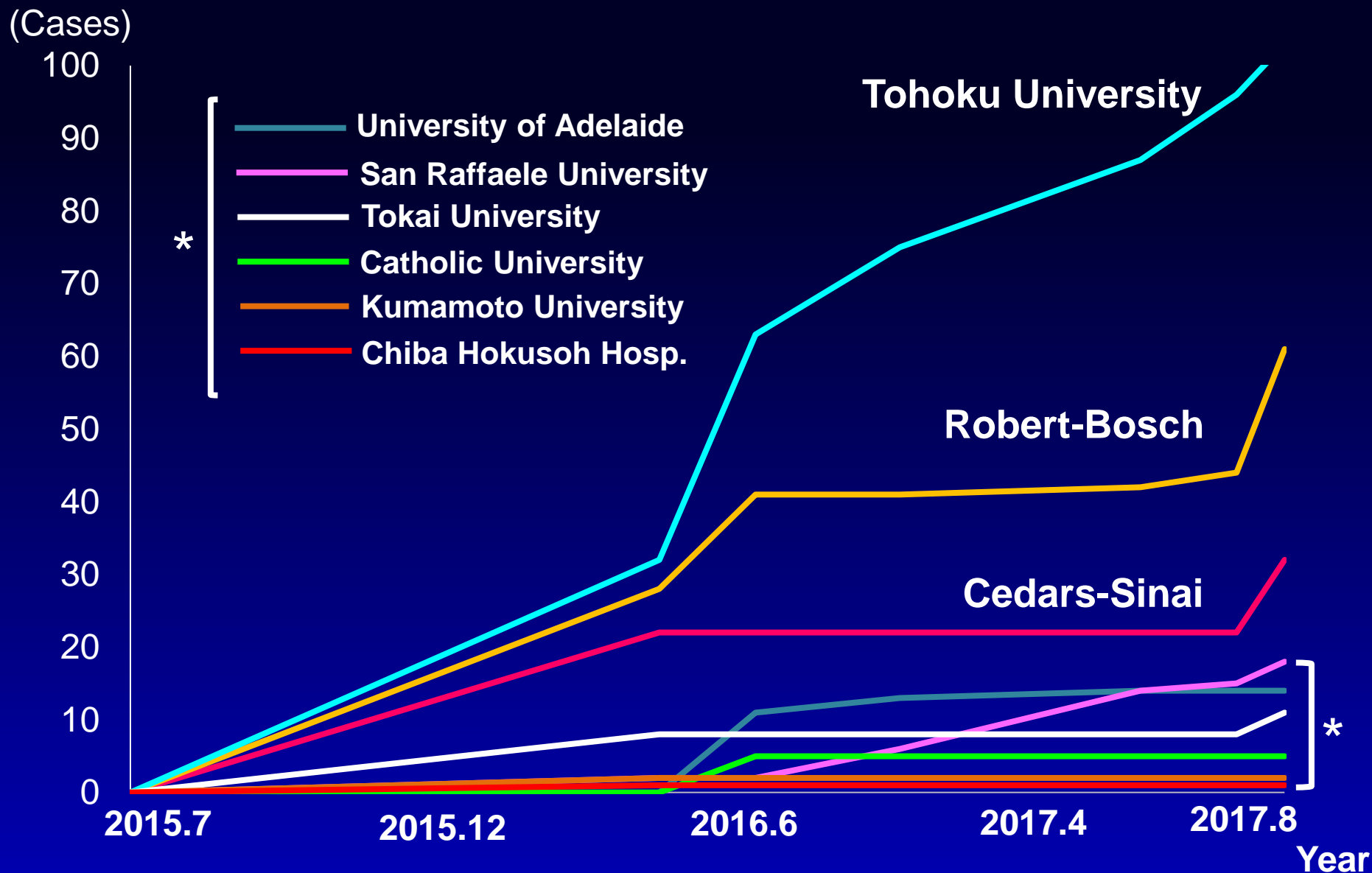
Number of patients enrolled

(July 1, 2015 ~ August 24, 2017)

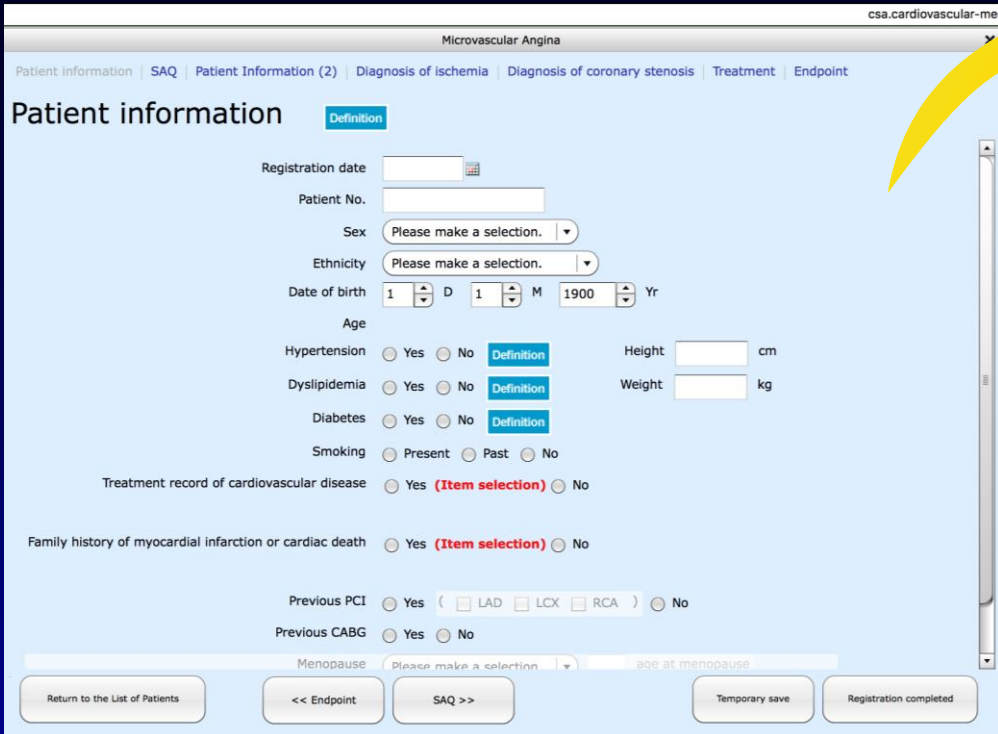


Number of patients enrolled

(July 1, 2015 ~ August 24, 2017)



Registration form 1 : Patient information (1)



Microvascular Angina

Patient information | SAQ | Patient Information (2) | Diagnosis of ischemia | Diagnosis of coronary stenosis | Treatment | Endpoint

Patient information **Definition**

Registration date

Patient No.

Sex

Ethnicity

Date of birth D M Yr

Age

Hypertension ☐ Yes ☐ No **Definition**

Dyslipidemia ☐ Yes ☐ No **Definition**

Diabetes ☐ Yes ☐ No **Definition**

Smoking ☐ Present ☐ Past ☐ No

Treatment record of cardiovascular disease ☐ Yes **(Item selection)** ☐ No

Family history of myocardial infarction or cardiac death ☐ Yes **(Item selection)** ☐ No

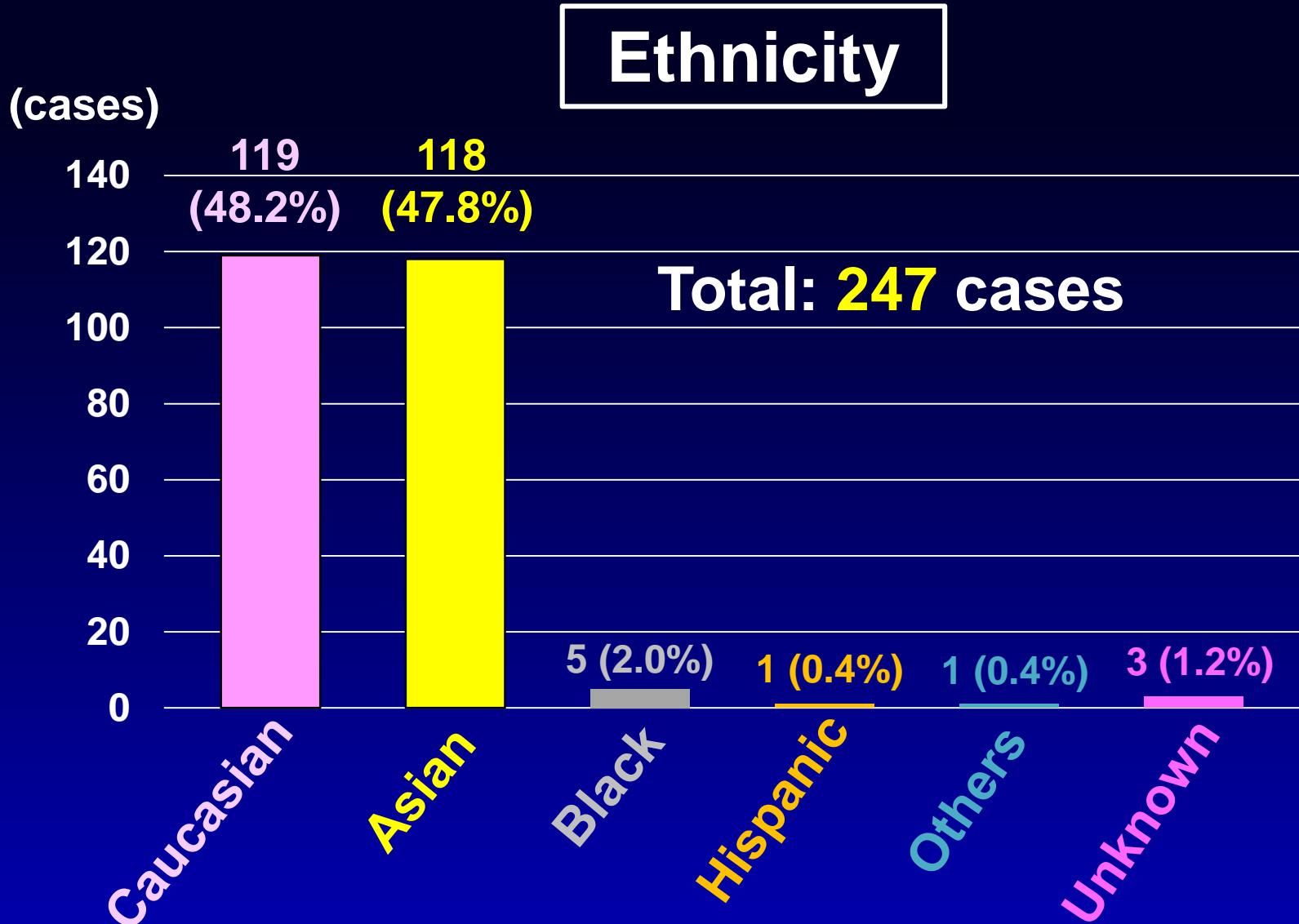
Previous PCI ☐ Yes (☐ LAD ☐ LCX ☐ RCA) ☐ No

Previous CABG ☐ Yes ☐ No

Menopause

- Ethnicity
- Sex
- Age
- Coronary risk factors
- Treatment record of CVD

Registration form 1 : Patient information (1)



Registration form 2: Seattle Angina Questionnaire (SAQ)

Microvascular Angina

csa.cardiovascular-med

Patient information | SAQ | Patient Information (2) | Diagnosis of ischemia | Diagnosis of coronary stenosis | Treatment | Endpoint

Seattle Angina Questionnaire at the time of diagnosis

There is 11 questions in SAQ. Please answer the all questions.

Q1.

1.The following is a list of activities that people often do during the week. Although for some people with several medical problems it is difficult to determine what it is that limits them, please go over the activities listed below and indicate how much limitation you have had due to chest pain, chest tightness, or angina over the past 4 weeks.
(*There is 9 questions. Please scroll the picture for answer all the questions.)

Activity	Severely limited	Moderately Limited	Somewhat Limited	A Little Limited	Not Limited	Limited, or did not do for others reasons
Dressing yourself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Walking indoors on level ground	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
showering	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q2.

Q3.

Q4.

Q5.

Q6.

Q7.

Q8.

Q9.

Q10.

Q11.

Return to the List of Patients

<< Patient information

Patient information (2) >>

Temporary save

Registration completed

Response rate:
65.6%

Registration form 3 : Patient information (2)

Microvascular Angina

Patient information | SAQ | Patient Information (2) | Diagnosis of ischemia | Diagnosis of coronary stenosis | Treatment | Endpoint

Patient Information (2)

LVEF ☐ UCG ☐ LVG %

The date of blood test

White blood cell count / μ l ☐ Not tested

Hemoglobin level g/dl ☐ Not tested

Serum creatinine mg/dl (or ☐ mmol/L) ☐ Not tested

Total cholesterol mg/dl (or ☐ mmol/L) ☐ Not tested

HDL-C mg/dl (or ☐ mmol/L) ☐ Not tested

Triglyceride mg/dl (or ☐ mmol/L) ☐ Not tested

LDL-C mg/dl (or ☐ mmol/L) ☐ Not tested

When the conversion button is clicked, it calculates automatically by total cholesterol, HDL-C, and Triglyceride.

Fasting glucose mg/dl (or ☐ mmol/L) ☐ Not tested

HbA1c % ☐ Not tested

BNP pg/ml ☐ Not tested

High-sensitive CRP mg/dl ☐ Not tested

TSH μ IU/ml ☐ Not tested FT3 pg/ml ☐ Not tested

FT4 pg/ml ☐ Not tested

- LVEF (%)
- Laboratory data

Registration form 4: Diagnosis of ischemia

Microvascular Angina

Patient information | SAQ | Patient Information (2) | Diagnosis of ischemia | Diagnosis of coronary stenosis | Treatment | Endpoint

Diagnosis of ischemia

Date of admission ☐ Out-patient clinic only (no admission)

Date of diagnosis confirmed

Symptom ☒ Angina (☐ Rest ☐ Effort ☐ Rest & Effort) ☐ Asymptomatic ☐ Shortness of breath(SOB) ☐ Other

Diagnosis of ischemia ☒ 12-lead ECG (during attack) / Holter ECG

ECG findings during attack

ST segment elevation ☐ Yes ☐ No

<input type="checkbox"/> I	<input type="checkbox"/> II	<input type="checkbox"/> III	<input type="checkbox"/> aVR	<input type="checkbox"/> aVL	<input type="checkbox"/> aVF
<input type="checkbox"/> V1	<input type="checkbox"/> V2	<input type="checkbox"/> V3	<input type="checkbox"/> V4	<input type="checkbox"/> V5	<input type="checkbox"/> V6

ST segment depression ☐ Yes ☐ No

<input type="checkbox"/> I	<input type="checkbox"/> II	<input type="checkbox"/> III	<input type="checkbox"/> aVR	<input type="checkbox"/> aVL	<input type="checkbox"/> aVF
<input type="checkbox"/> V1	<input type="checkbox"/> V2	<input type="checkbox"/> V3	<input type="checkbox"/> V4	<input type="checkbox"/> V5	<input type="checkbox"/> V6

Negative U wave ☐ Yes ☐ No

☐ Exercise stress ECG ☐ Positive ☐ Negative [Definition](#)

☐ SPECT ☐ PET CFR

☐ Cardiac MRI CFR

☐ Echo Doppler / Stress echo (Regional wall motion abnormality ☐ Yes ☐ No) CFR

Date performed

Diagnosis of organic stenosis ☐ Coronary angiography ☐ Coronary CT

Organic stenosis ☐ Yes ☐ No ☐ LMT Please make a selection. ☐ LAD Please make a selection.

[Return to the List of Patients](#) [<< Patient information \(2\)](#) [Information of coronary ar...](#) [Temporary save](#) [Registration completed](#)

- Symptoms
- ECG findings
- Non-invasive stress test
- Diagnosis of organic stenosis

Registration form 5 :Diagnosis of coronary stenosis

Microvascular Angina

Patient information | SAQ | Patient Information (2) | **Diagnosis of ischemia** | Diagnosis of coronary stenosis | Treatment | Endpoint

Diagnosis of coronary stenosis

Provocation test

☐ Performed ☐ Not performed

Induction method ☐ ACh ☐ Erg ☐ adenosine ☐ Pacing stress test ☐ Others

Chest pain ☒ Yes ☐ No Reproduction of symptoms instead of chest pain ☐ Yes ☐ No

Epicardial spasm

☒ LMT %stenosis : ☐ diffuse ☐ focal ☐ Mixed ☐ Not performed

☒ LAD %stenosis : ☐ diffuse ☐ focal ☐ Mixed ☐ Not performed

☒ LCX %stenosis : ☐ diffuse ☐ focal ☐ Mixed ☐ Not performed

☒ RCA %stenosis : ☐ diffuse ☐ focal ☐ Mixed ☐ Not performed

ECG changes during provocation test

ST segment elevation ☒ Yes ☐ No ☐ I ☐ II ☐ III ☐ aVR ☐ aVL ☐ aVF

☐ V1 ☐ V2 ☐ V3 ☐ V4 ☐ V5 ☐ V6

ST segment depression ☒ Yes ☐ No ☐ I ☐ II ☐ III ☐ aVR ☐ aVL ☐ aVF

☐ V1 ☐ V2 ☐ V3 ☐ V4 ☐ V5 ☐ V6

Negative U wave ☐ Yes ☐ No

Arrhythmias ☒ Yes ☐ No ☐ PVC ☐ VT/VF ☐ AV block ☐ bradycardia ☐ arrest

☐ CFR ☐ IMR ☒ TIMI Frame count (Cine Acquisition)

☒ Myocardial lactate production (ACh/Erg dose MLP had occurred)

Complication at provocation test ☐ Yes ☒ No (Item selection)

Return to the List of Patients << Diagnosis of ischemia Treatment >> Temporary save Registration completed

- Provocation test
- Invasive physiological assessment
- Myocardial lactate production

Registration form 6: Treatment

Microvascular Angina

Patient information | SAQ | Patient Information (2) | Diagnosis of ischemia | Diagnosis of coronary stenosis | Treatment | Endpoint

Treatment

Ca channel blockers

Nitrate

Statin

ACEI

ARB

Antiplatelet / anticoagulant agent

Beta blocker

Others

☐ Hormone replacement therapy

Drug

You can make multiple selections by holding down the Ctrl key while making the selections.
To unselect an item, again hold down the Ctrl key while selecting the item.

- Amlodipine
- Aranidipine
- Azelnidipine
- Barnidipine
- Benidipine
- Cilnidipine
- Diltiazem
- Efonidipine
- Felodipine
- Gallopamil
- Isradipine
- Lacidipine
- Lercanidipine

Choose the desired items and press the select button.

[Return to the List of Patients](#)

Drugs

Registration form 7: Endpoints

Microvascular Angina

Patient information | SAQ | Patient Information (2) | **Diagnosis of ischemia** | Diagnosis of coronary stenosis | Treatment | Endpoint

Endpoint

☒ Death

Date of event

☐ Cardiovascular death

☐ Sudden death

☐ Non-cardiovascular death

☐ Discharged alive

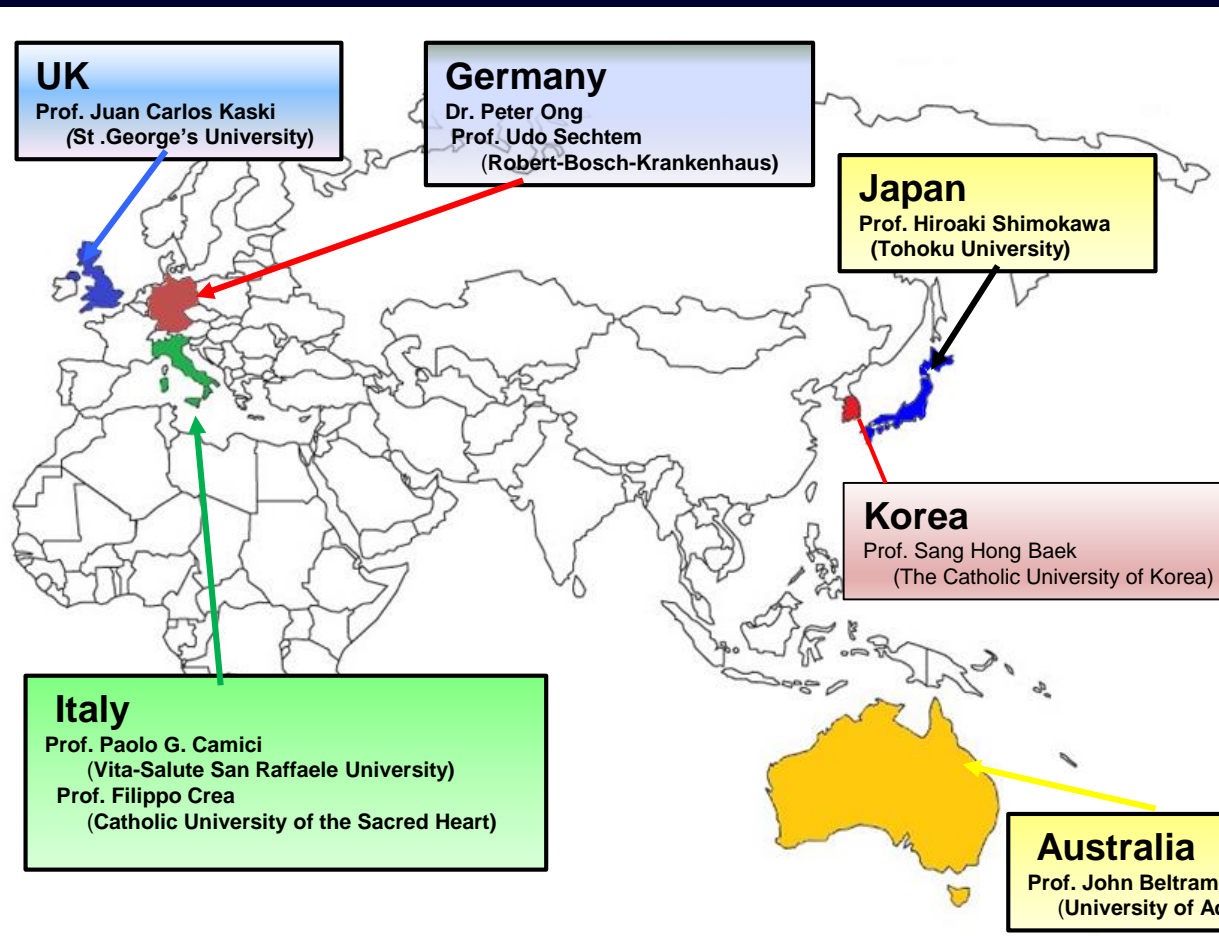
Date of discharge

[Return to the List of Patients](#) [<< Treatment](#) [Patient information >>](#) [Temporary save](#) [Registration completed](#)

- Cardiovascular event
- Sudden death
- Non-cardiovascular death
- Discharged alive

International prospective registry of vasospastic angina (VSA) by JCSA

Study design : Multicenter, **prospective** cohort



Entry period:

2010.1~2014.3

Follow-up period:

2010.1~2016.12