

July 27, 2024 Sapporo



# **CVIT Registry's performance in training young physician**

**Hideki Wada**

Juntendo University Shizuoka Hospital

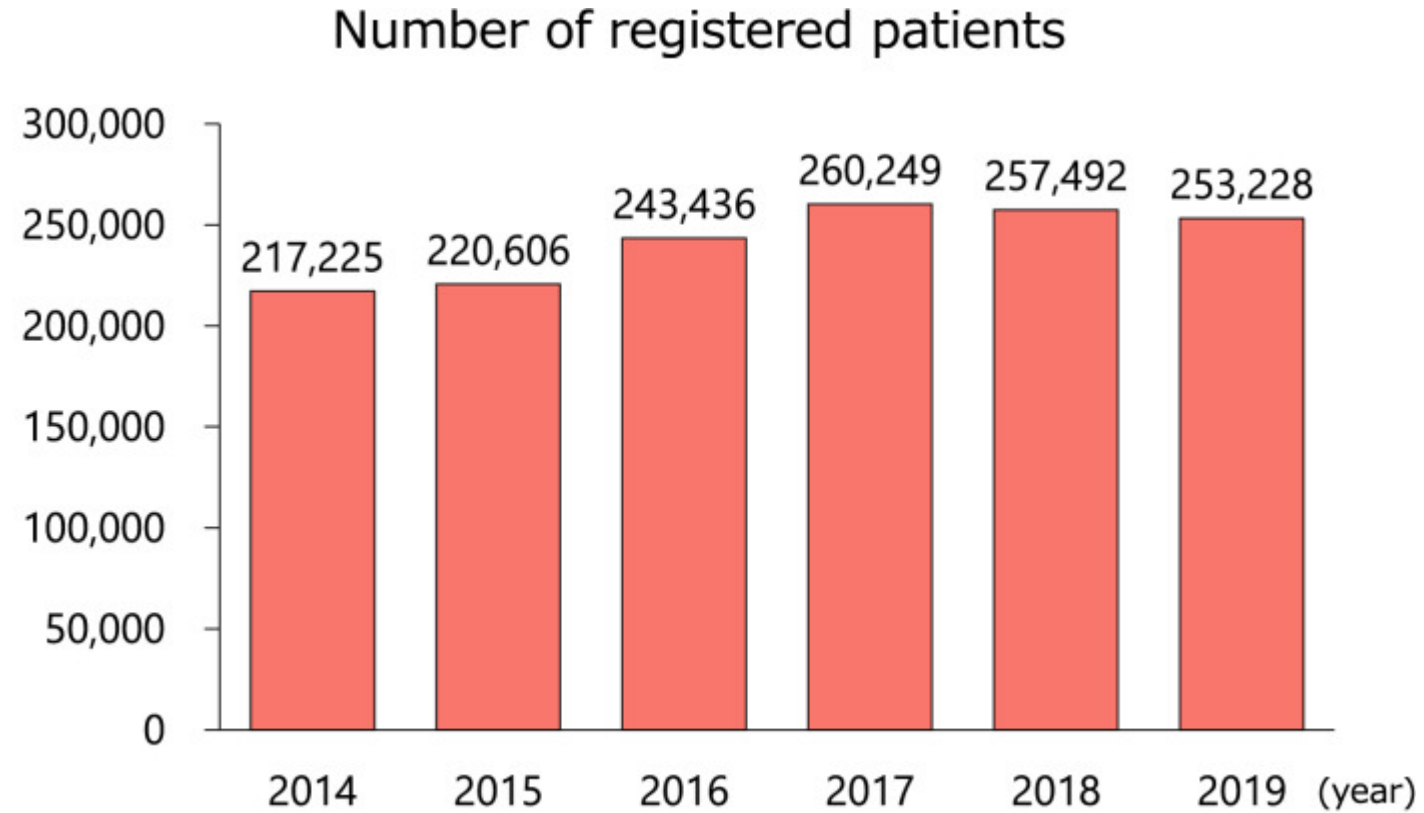
the Japanese Association of  
Cardiovascular Intervention and Therapeutics  
**COI Disclosure**

*Name of First Author : Hideki Wada*

The authors have no financial conflicts of interest  
to disclose concerning the presentation.

# 1,100 facilities, 250,000 cases / year

- The J-PCI Registry is a large registry that accumulates 250,000 cases of PCI data each year.
- The J-PCI Registry has been accepting Research Proposals since 2015 and many papers were published to date.



# Reports from the J-PCI registry

2016	<i>Circ Cardiovasc Interv</i>	Kenichi Sakakura	Incidence and Determinants of Complications in Rotational Atherectomy: Insights From the National Clinical Data (J-PCI Registry)
2017	<i>Am J Cardiol</i>	Kyohei Yamaji	Relation of ST-Segment Elevation Myocardial Infarction to Daily Ambient Temperature and Air Pollutant Levels in a Japanese Nationwide Percutaneous Coronary Intervention Registry
2017	<i>JACC Cardiovasc Interv</i>	Taku Inohara	Impact of Institutional and Operator Volume on Short-Term Outcomes of Percutaneous Coronary Intervention: A Report From the Japanese Nationwide Registry
2019	<i>Catheter Cardiovasc Interv</i>	Yohei Numasawa	An overview of percutaneous coronary intervention in dialysis patients: Insights from a Japanese nationwide registry
⋮			
2023	<i>JAHA</i>	Yuji Nishimoto	Changing Trends in Mechanical Circulatory Support Use and Outcomes in Patients Undergoing Percutaneous Coronary Interventions for Acute Coronary Syndrome Complicated With Cardiogenic Shock: Insights From a Nationwide Registry in Japan
2024	<i>JACC Asia</i>	Yuichi Saito	Door-to-Balloon Time and Mortality in STEMI With Cardiogenic Shock: A Nationwide Registry
2024	<i>Circ J</i>	Tomoya Hoshi	Impact of Sex Differences on Clinical Outcomes in Patients Following Primary Revascularization for Acute Myocardial Infarction - Insights From the Japanese Nationwide Registry

# Research Proposal

- Research proposal is open to the public, and the review process is impartial so that applicants are not identified.
- The final decision is based on (1) academic importance (**Novelty**), (2) whether the design is suitable for registry analysis (**Feasibility**), and (3) performance in submitting the manuscript to international journals (**Performance**).

# Opportunities for young physicians

- Huge amounts of patient data can be used.
- Data analysis is performed by the analysis committee members and is therefore less burdensome.
- When preparing the paper, several members of the working subcommittee are invited to comment on the paper and work on its completion.

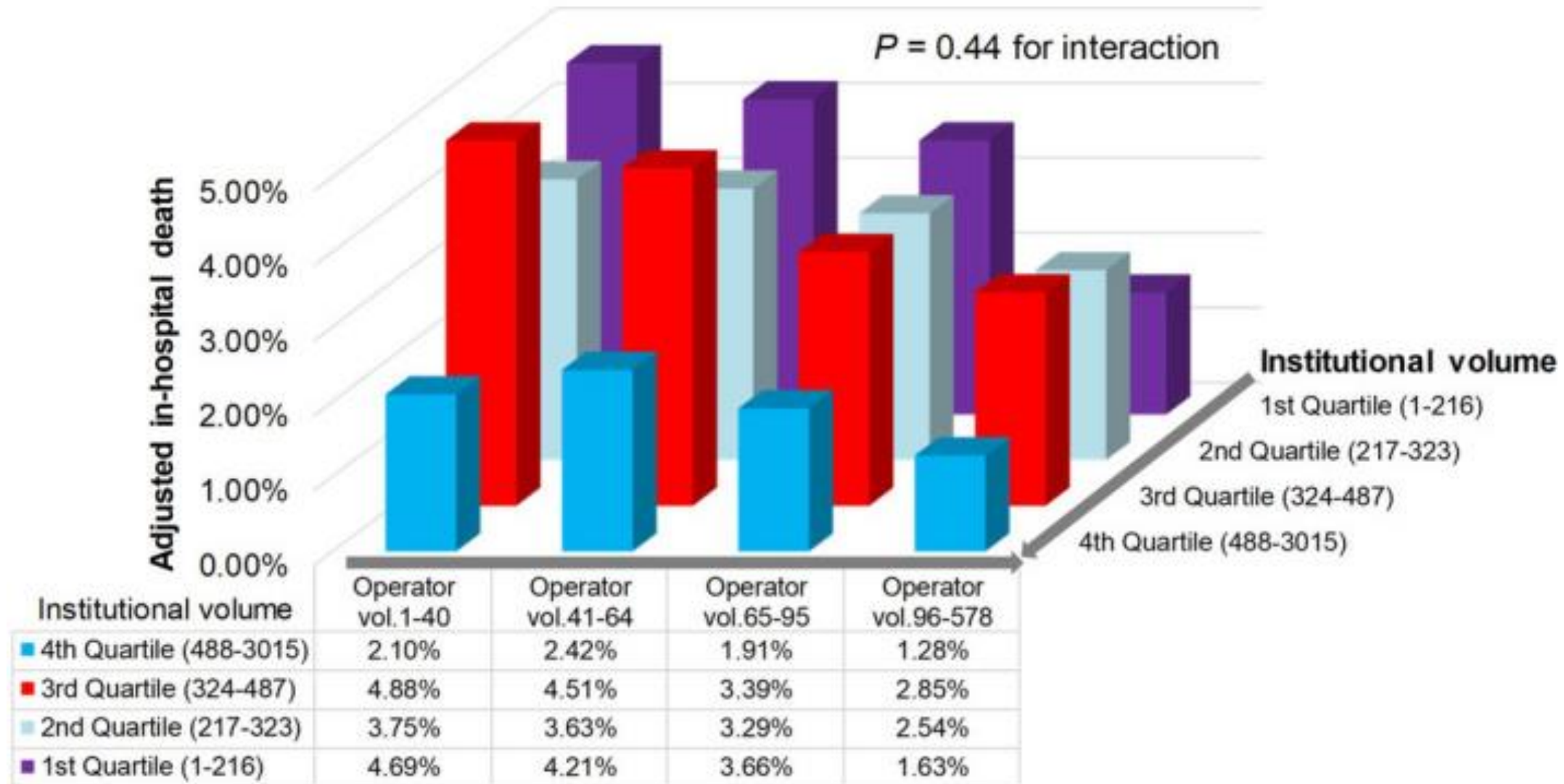
**ORIGINAL RESEARCH**

---

# Procedural Volume and Outcomes After Percutaneous Coronary Intervention for Unprotected Left Main Coronary Artery Disease—Report From the National Clinical Data (J-PCI Registry)

Tadao Aikawa, MD, PhD; Kyohei Yamaji, MD, PhD; Toshiyuki Nagai, MD, PhD; Shun Kohsaka, MD, PhD; Kiwamu Kamiya, MD, PhD; Kazunori Omote, MD, PhD; Taku Inohara, MD, PhD; Yohei Numasawa, MD, PhD; Kenichi Tsujita, MD, PhD; Tetsuya Amano, MD, PhD; Yuji Ikari, MD, PhD; Toshihisa Anzai, MD, PhD

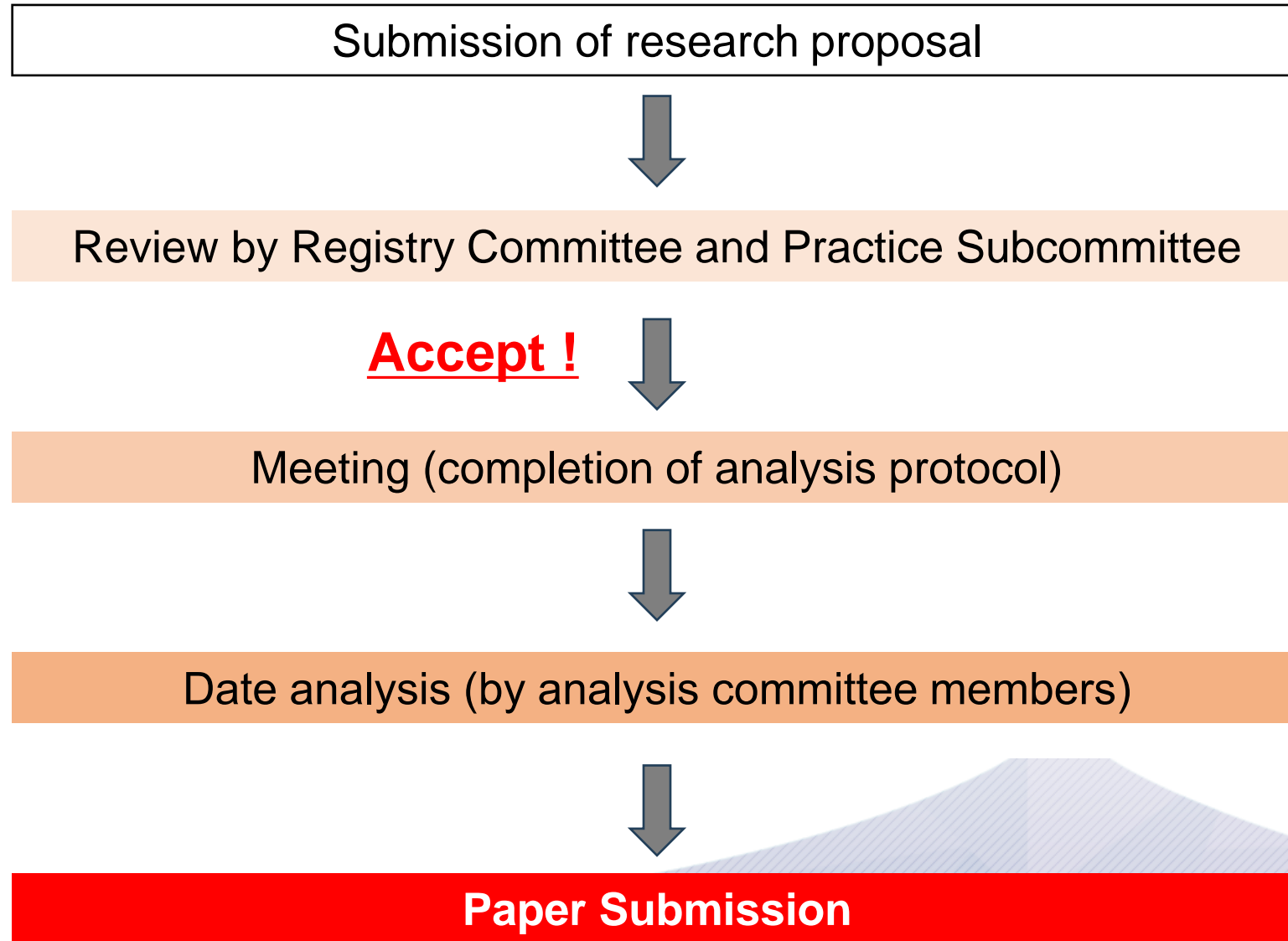




Institutional rather than operator-based PCI volume was associated with better in-hospital outcomes in patients undergoing PCI for unprotected left main coronary artery disease.



# Timeline to paper submission



# If the research is not accepted..



Submission of research proposal



Review by Registry Committee and Practice Subcommittee



Meeting (completion of analysis protocol)



Data analysis (by analysis committee members)



Paper Submission

Reviewers comments  
are fed back



The system allows even young physicians to have a good chance of being adopted depending on the content of the theme !

# Young Physician Support Program

- We supported young physician whose application was not accepted in the review of research proposals to revise and restructure his application together with the registry committee members.

# Young Physician Support Program



Submission of research proposal



Review by Registry Committee and Practice Subcommittee



Meeting (completion of analysis protocol)



Data analysis (by analysis committee members)

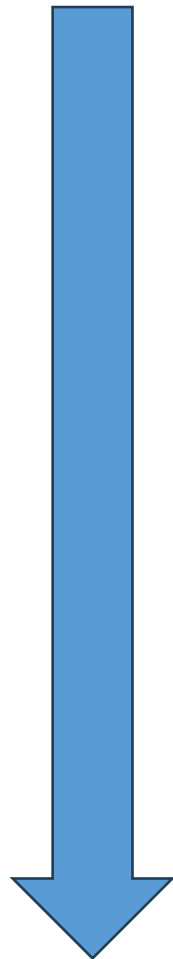


Paper Submission



**Young physician  
support program**

# Young Physician Support Program, *Case 2023*



Jan. 1<sup>st</sup> Meeting (online)

Mar. 2<sup>nd</sup> Meeting (JCS 2023, Fukuoka)

May 3<sup>rd</sup> Meeting (online)

Aug. 4<sup>th</sup> Meeting (CVIT 2023, Fukuoka)

Sep. **Submission of the research protocol**

# Discussion points

- ✓ What was missing or not good in the previous research proposal?
- ✓ What do we want to prove?
- ✓ What do we focus our research on?
- ✓ Is it feasible and can it be analyzed?
- ✓ Is the research proposal clearly and attractively organized?



# Research proposal (2022, 1<sup>st</sup> submission)

- **Theme:**

Examining the impact of left digit bias on invasive treatment strategies in percutaneous coronary angioplasty

- **Objective:**

The purpose of the study was to evaluate the impact of LDB on physicians' clinical decision making in performing PCI and to examine their impact on outcomes.

- **Primary endpoint:**

Frequency of devices (ex. POBA, DES, Rotablator) used.  
Frequency of use of MCS.

# Research proposal (2023, 2<sup>nd</sup> submission)



- **Theme:**

Analysis of the trend of contrast agent volume (CAV) during percutaneous coronary intervention over time and the presence of left digit bias due to preoperative renal function.

- **Objective:**

- ✓ To determine trends in CAV during PCI and assess variability among surgeons and centers.
- ✓ To identify patient factors associated with increased CAV
- ✓ To evaluate the impact of LDB on Cr/GFR on CAV as a surgeon factor

- **Primary endpoint:**

Volume of contrast media usage

# Analysis procedure (2<sup>nd</sup> submission)

**Step 1;** 5-year trend analysis of contrast media usage



**Step 2;** To identify patient factors associated with increased CAV



**Step 3;** To evaluate the impact of left digit bias by preoperative serum creatinine level on the amount of CAV

# Young Physician Support Program, Case 2023



Submission of research proposal



Review by Registry Committee and Practice Subcommittee



The members who provided support  
were excluded from the review of the  
application.

**Accept !**

**We hope to continue to build a system that can support opportunities for young physicians using valuable registry data.**