



**ASCI**  
Asian Society of Cardiovascular Imaging

# THE 14<sup>TH</sup> CONGRESS OF ASIAN SOCIETY OF CARDIOVASCULAR IMAGING **2021**

BEYOND THE FUTURE OF CARDIOVASCULAR IMAGING:

*Opportunities & Challenges*

VIETNAM, AUGUST 19-21/2021

# Final Report

**ASCI**20  
VIETNAM21

10 Oct 2021

**ASCI**20  
VIETNAM21

**ASCI**  
Asian Society of Cardiovascular Imaging

THE 14<sup>TH</sup> CONGRESS OF ASIAN SOCIETY  
OF CARDIOVASCULAR IMAGING **2021**

# Congress information

## Congress name

**The 14<sup>th</sup> Congress of the Asian Society of Cardiovascular Imaging (ASCI 2021)**

## Theme

**Beyond the future of cardiovascular imaging: Opportunities and Challenges**

## Dates

**19<sup>th</sup> Aug 2021 (THU) to 21<sup>st</sup> Aug 2021 (SAT)**

## Venue

**Vietnam though Virtual platform**

## Time zone

**GMT +7**

## Composed of

**Scientific Programs/Virtual Events/Virtual Exhibitions**

## Participants

**897 persons**

# Scientific program

**BE INSPIRED BY ASCI 2021 CONGRESS!** REGISTRATION

- Join us online for clinical updates, newly released guidelines, and hot debates for the best care of our patients.
- Our interactive program showcases a depth and breadth of basic sciences and clinically relevant updates across all cardiovascular imaging topics

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**18** **State-of-the-Art Sessions**  
*with essential updates covering the full spectrum of cardiovascular imaging*

**05** **Joint Symposia**  
*meeting and exchange knowledge with SCMR, ESCR, SCCT, EACVI, NASCI*

**More interactivity**  
*live chat with experts, industry partners, and all attendees*

**Total: 133 lectures**

Country	Speakers
Australia	1
Belgium	1
China	4
France	1
GBR	3
Germany	1
Hongkong	2
Italy	2
Japan	6
Korea	17
Netherlands	1
Singapore	3
Taiwan	4
USA	14
Vietnam	11
<b>Total</b>	<b>71</b>

# Program at-a-glance

## DAY 1 - AUGUST 19 (THURSDAY)

Time (GMT+7)	Channel 1	Channel 2	Channel 3
8:30-10:00		ASE and VSE course	
10:00 - 10:30	Opening Ceremony		
10:30 - 12:00	Plenary Session Beyond the Future of Cardiovascular Imaging: Opportunities and Challenges		
14:00 - 15:30	ASCI meets SCMR New frontiers in CMR	Update lecture 1 Hot topics in Cardiac CT	Scientific Session 1
16:00 - 17:30	ASCI meets ESCR Prevention of cardiovascular disease	Educational Course 1 How to do CMR	Scientific Session 2

# Program at-a-glance

## DAY 2 - AUGUST 20 (FRIDAY)

	Channel 1	Channel 2	Channel 3
8:30-10:00	<b>ASCI meets SCCT</b> CT Functional assessment of CAD	<b>Educational Course 2</b> How to do Cardiac CT	<b>Refresh course 1</b> Imaging Assisted Cardiac Intervention except for TAVR
10:30 -12:00	<b>Special focus 1</b> Artificial Intelligence	<b>Update lecture 2</b> Hot topics in CMR	<b>Best Young Presenter Award</b>
14:00-15:30	<b>ASCI meets E ACVI</b> Multimodality in the evaluation and treatment of valvular heart diseases	<b>Educational Course 3</b> Coronary artery	<b>Refresh course 2</b> TAVR
16:00-17:30	<b>Special focus 2</b> Team Approach: Cardio-oncology	<b>Educational course 4</b> Cardiomyopathy Essentials	<b>Scientific Session 3</b>

# Program at-a-glance

## DAY 3 - AUGUST 21 (SATURDAY)

	Channel 1	Channel 2	Channel 3
8:30-10:00	Read with the experts	Educational Course 5 Valvular heart disease	Scientific Session 4
10:30 -12:00	ASCI meets NASCI Safety in Cardiovascular Imaging	Update lecture 3 Aortic Disease: Team Approach	Refresh course 3 Acute chest pain in the ER
14:00-15:30	Special focus 3 Patients with Stable Chest Pain: Debate Session	Educational Course 6 Echocardiography (joint with ASE)	Refresh course 4 Congenital heart disease

# Abstracts submission

Country	Scientific abstract	Case report	Educational poster
China	6	1	
Egypt	1	1	
Hongkong	1	1	4
Indonesia	12	16	
Japan	3	1	1
Korea	7		1
Taiwan	1		
Thailand		1	
Vietnam	14	10	
<b>Subtotal</b>	<b>45</b>	<b>31</b>	<b>6</b>
<b>Grant total</b>		<b>82</b>	

**Accepted: Oral presentations: 40**

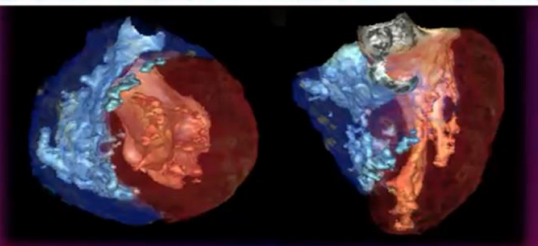
**E-poster: 32**

작업 표시줄 표시    디스플레이 설정    슬라이드 쇼 마침

0:02:31    오전 10:29

*The 14th ASCI Congress 2021: How to do CMR*

# Functional Analysis: LV and RV



**Hyun Woo Goo**  
Professor of Radiology  
University of Ulsan College of Medicine, Asan Medical Center, Seoul, Korea

다음 슬라이드

## OUTLINE

- **Global Function** (Volumetry)
  1. Data acquisition: 2D vs. 3D
  2. Segmentation method: contouring vs. threshold-based
  3. User interaction: manual, semiautomatic, & fully automated
- **Regional Function** (Strain)

Thank you chairperson for your kind introduction.  
Also thank the organizing committee for inviting me.  
I'm pleased to have this valuable opportunity to present my clinical experience on this special occasion of ASCI 2021.  
As introduced, today I'll give you a talk about the assessment of ventricular function using CMR.

슬라이드 1/25



MODERATORS



LECTURER

Prof. Hyun Woo Goo

## Functional Analysis: LV and RV



ASCI 20 VIETNAM 21 THE 14<sup>TH</sup> CONGRESS OF ASIAN SOCIETY OF CARDIOVASCULAR IMAGING 2021 E-POSTER

## Tetralogy of Fallot with Pulmonary Atresia and Major Aortopulmonary Collateral Arteries: Case Report

Phathayphout Phetvilay<sup>1,2</sup>, MD and Nat Terpenning<sup>3</sup>, MD

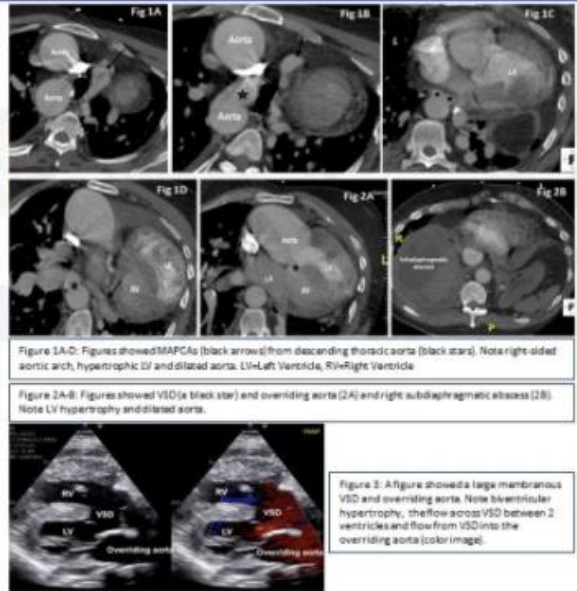
<sup>1</sup> Department of radiology, Mittaphab hospital, University of health sciences Lao P.D.R, <sup>2</sup> Department of radiology, Siriraj hospital, Mahidol university, Bangkok, Thailand <sup>3</sup> Department of Radiology and Imaging Sciences, Emory University, Atlanta, GA.

### Introduction

Tetralogy of Fallot (TOF), the most common cyanotic congenital heart disease, represents 5% to 7% of all Congenital Heart Disease (CHD). An estimated incidence of 0.5/1000 live births. It is also the most frequent complex CHD in adulthood (1). We are presenting an extreme case of TOF.

### Clinical Report

- A 42-year-old male presented to Emergency Department (ED) with fatigue, abdominal pain and shortness of breath. His underlying was an uncorrected complex CHD. Two months earlier, he tested positive for Covid-19 and received symptomatic treatment without hospitalization.
- The initial contrast enhanced CT (CECT) chest, abdomen and pelvis was performed to rule out infection.
- CECT Chest revealed Multiple Aorto-Pulmonary Collateral Arteries (MAPCAs), absence of main pulmonary artery (Fig 1A-D), overriding aorta, membranous Ventricular Septal Defect (VSD) and Right Ventricular Hypertrophy (RVH) (Figure 2A) suggestive of severe form of TOF. A small right pleural effusion was likely reactive from right-sided subdiaphragmatic abscess (Fig 2B).
- Echocardiography demonstrated a large membranous VSD and overriding aorta. Please note severe concentric hypertrophy of both ventricles. LVEF was 55-60% (Fig 3).



### Discussion

TOF with pulmonary atresia (PA) is a rare entity of CHD. Classic imaging features include VSD, right ventricular outflow tract obstruction, RVH, overriding aorta, and MAPCAs (2).

Due to PA, MAPCAs are present from birth and are alternatives to the systemic pulmonary arterial supply. They usually arise from the descending thoracic aorta but may also take their origins from the subclavian or coronary arteries and the abdominal aorta (1).

Survival rates in unrepaired TOF with pulmonary atresia reported in the literature are as low as 50% at 1 year of age and 8% at 10 years (2). We are reporting an extreme uncorrected TOF with PA who survives till adulthood. Several factor may contribute to increased survival in uncorrected TOF that might be from primarily dependent on the adequacy of pulmonary blood flow derived from MAPCAs (3).

### References

- <sup>1</sup> Lapierre C, Dubois J, Rypan F, Rabotzan M-J, Déry J. Tetralogy of Fallot: Preoperative assessment with MR and CT imaging. *Diagnostic and Interventional Imaging*. 2016; 97:531-41.
- <sup>2</sup> Dobrocky T, Klein T, Walzstamer C, Haverhagen J, Christe A. Imaging findings in uncorrected tetralogy of Fallot and pulmonary atresia with major aortopulmonary collateral arteries and aortic embolism. *Acta Radiologica Short Reports*. 2014; 3:14
- <sup>3</sup> Fukui D, Kai H, Takeuchi T, Gondo T, Oba T, Mawatari K, et al. Longest Survivor of Pulmonary Atresia With Ventricular Septal Defect: Well-Developed Major Aortopulmonary Collateral Arteries Demonstrated by Multidetector Computed Tomography. *Circulation*. 2011; 124:2199-7

# Number of registers

**Total**                    **889 persons**

**Attendees: 467**

**Registers: 422**

Country	Register
Abraj	1
Australia	1
Italy	2
Belgum	1
Netherlands	1
France	1
Germany	1
USA	13
UK	3
China	9
Hong Kong	12
Indonesida	12
Japan	9
Korea	29
Singapore	5
Thailand	15
Taiwan	5
India	2
Vietnam	775

# Virtual Events



# Opening Ceremony

Date and time      Day 1, Thursday, 19<sup>th</sup> Aug 2021  
10:00-10:30 (GMT+7)

**Channel 1**

Awards      ASCI outstanding Awards  
ASCI Gold Medal

# General Assembly:

**Day 3, Saturday, 21<sup>st</sup> Aug 2021**

**13:30 - 14:00 (GMT+7)**

**Channel 2**

# Closing ceremony

**Day3, Saturday, 21<sup>st</sup> Aug 2021**

**15:30 - 16:00 (GMT+7)**

**Channel 1**

**BYPA awards**

**ASCI 2022 invitation**

# Awards



## The ASCI Outstanding Award

### Dr. Teruhito Mochizuki

Emeritus Professor, Department of Radiology,  
Ehime University School of Medicine, Ehime, JAPAN  
Professor, Radiology, Sechenov First Moscow State  
Medical University, Moscow Russia







**Seventh ASCI Gold Medalist**

**Professor Dong Hyun Yang**

**Professor  
Asan Medical Center,  
University of Ulsan College of Medicine,  
Seoul, Korea**

# The Winner of ASCI BYPA

[Prize money USD 1,000]



**Dr. Baiyan Zhuang**

Fuwai Hospital, China



- Title of Presentation:  
Identify Ischemic, Infarcted, Hibernant, and Normal Myocardium by Stress and Rest T1 Mapping without the Application of Gadolinium Contrast Agents

# Publications



# Program book



# Certificate



# Sponsorship

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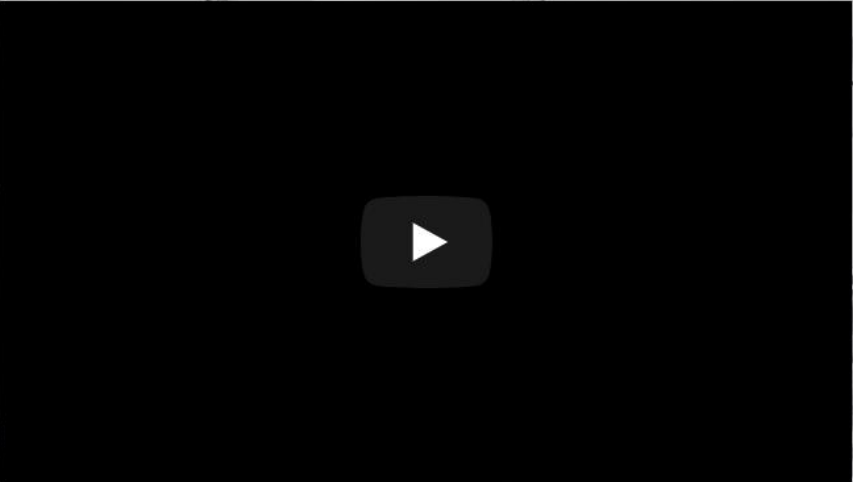
Bronze Sponsor >

# Canon

# Exhibition


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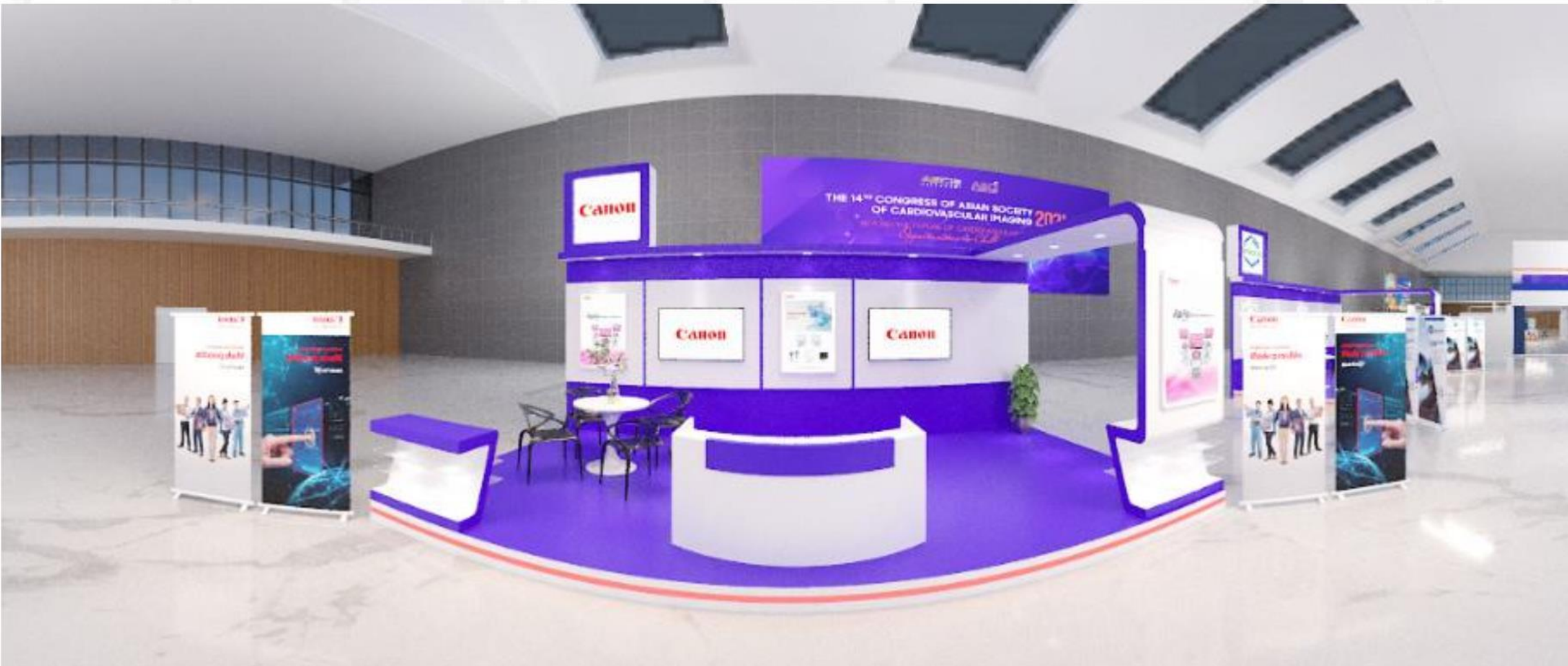
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EXHIBITION SPACE

FLOOR PLAN





# Official website

<https://asci-2020.org/>



ASCI 20  
VIET NAM 21

ASCI  
Asian Society of Cardiovascular Imaging

THE 14<sup>TH</sup> ASCI 2021 CONGRESS FULLY VIRTUAL

## *Beyond the Future of Cardiovascular Imaging: Opportunities and Challenges*

Date | August 19 - 21, 2021  
Venue | VietNam

- ▶ The deadline for online submission was ended
- ▶ Registration Due: 31<sup>st</sup> July 2021



<http://www.asci-2020.org>

### News >

#### What make new & event?

01

[ASCI]3 Online ASCI Cube Alumni  
August 18 (Wed.), 18:00 (GMT+9)

It's been 12 years since ASCI launched its Advanced School for Core Investigation from ASCI (ASCI Cube ([ASCI]3) Program, former [ASCI]2) to recruit young ASCI members of high potential and train them to become representative scholars of Asia and lecturers at world-wide annual congresses.

02

14th ASCI 2021 Congress goes  
hybrid!

The COVID-19 pandemic has changed the world we live in and traveling is still banned in so many places. After much thought and careful discussions about our health and safety, we finally decided that the best way to move forward and hold the 14th ASCI 2021 Congress will be in the Hybrid format

03

Announcements: New Dates for the  
ASCI Congress in Vietnam

The Asian Society of Cardiovascular Imaging (ASCI), has decided to postpone the 14th Asian Congress of Cardiovascular Imaging (ASCI), originally scheduled on August 20-22, 2020, to August 19-21, 2021 in Hanoi, Vietnam

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## Welcome Message

- Congress Overview
  - Welcome Message
  - Committee
- Program
- Call for Papers
- Sponsorship
- Registration**

### Welcome message From the President of the Asian Society of Cardiovascular Imaging (ASCI)

Dear Friends and Colleagues,

On behalf of the ASCI, it is my great honor and privilege to welcome you to the 14th Asian Congress of Cardiovascular Imaging (ASCI 2021) which will be held in the hybrid form at ALMAZ Center, Hanoi, Vietnam, from Thursday to Saturday on the 19th to 21st August 2021. Hanoi is the capital city as well as the second-largest city of Vietnam.

The ASCI was founded in 2006, and the Congress is held every year. In the past, it had been held twice in China, Japan, Korea, Singapore, and Taiwan, respectively, and once in Hong Kong, Malaysia, and Thailand, respectively. In addition to the annual scientific meeting, the ASCI has been playing a significant role in the academy and education in Asia. The events include the publication of an official journal the CVIA, the ASCI Cube program in fostering young and intelligent ASCI members, the ASCI Joint Symposium to support the academic activities of the Asian Oceanian national societies, Cube Alumni, Practical Tutorial, LIVE-Tutorial, and the ASCI Speaker Bureau to train the ASCI members to become distinguished speakers for academic meetings.

The theme of ASCI 2021 is "Beyond the Future of Cardiovascular Imaging: Opportunities and Challenges". Inspiring refresher courses and updated scientific programs, including the implication of AI in cardiovascular imaging will be arranged. AI has the potential of transforming cardiovascular imaging in the future. It will help radiologists, cardiologists, and healthcare providers to decrease diagnostic errors, facilitate collaborations among physicians for the sake of precision imaging, and preventive patient care. It is ASCI's privilege to have a collaboration and exchange program with sister societies, including the EACVI, ESCR, NASCI, SCCT, and SCMR. Outstanding speakers from those sister societies will be invited to strengthen the scientific program.

Due to the global pandemic, the international profession and healthcare providers are cordially welcome to join the virtual meeting. I would like to extend my sincere appreciation to the congress president Prof. Hoang Minh Loi, and the LOC members of ASCI 2021, for organizing this extraordinary congress. I would also like to take this opportunity to thank all participants, speakers, moderators, officers and EC Members of ASCI, and the industrial sponsors for promoting the advance of cardiovascular imaging and the forthcoming success of the ASCI 2021.

Yours sincerely



Yung-Liang Wan, MD  
President of the ASCI  
Honorary Professor of Radiology Linkou Chang Gung Memorial Hospital  
College of Medicine, Chang Gung University

### Welcome message from the Congress President of ASCI 2021

Dear Colleagues and Friends,

It has been a great honor to cordially invite you to the 14th ASCI Congress organized by the Asian Society of Cardiovascular Imaging.

On behalf of the Local Organizing Committee, I would like to thank you for your interest and participation in the Virtual ASCI Congress 2021. This year in Vietnam, many asiatic countries and over the world overcoming the difficulties of the COVID-19 pandemic, we must hold the ASCI Congress totally online combine between ASCI and VSRNM, between VSRNM and Vietnam National Heart Association (VNHA).

In a recent year, technological developments in cardiovascular imaging have infiltrated every aspect of practice, with noticeable improvements in diagnosis and impact on patient management. All imaging technologies have undergone continuing improvements, and thus, imaging has become essential in both clinical practice and research. The theme of ASCI 2021 is "Beyond the Future of Cardiovascular Imaging: Opportunities and Challenges"

With the current Covid-19 pandemic, everyone should get used to the new normality. We hope this virtual congress will give you and other eminent Professors and Doctors from all over the world the opportunity to share knowledge and to exchange experiences in the field of cardiovascular imaging.

Together we have built an agenda include inspiring educational courses and sensational scientific programs. Gradually get acquainted with the virtual exhibition booths of sponsor companies

I would like to give my deepest thank to ASCI, SCMR, NASCI, ESCR, SCCT, EACVI and VSRNM, VNHA for your contribution to our scientific program. Thank you, all faculties, chairmen, lecturers have arranged your time to connect and join in our congress. Many thanks, all AO-PO officers, for you devote to succesful of this congress.

Finally, I would like to send my appreciation to sponsor company (Bayer – Platinum sponsor; Bracco – Silver sponsor; Canon – Bronze sponsor; Philip, Menarini, Circle Cardiovascular Imaging, ...) to contribute to the event.

Once again, thank all of you for your participation, and I wish you will have a great time in 3 days of the ASCI Congress 2021. Wish the congress will have successful.



Hoang Minh Loi, MD, PhD.  
Congress President of ASCI 2021  
Vice President of Vietnamese Society of Radiology and Nuclear Medicine.



Congress Overview

Program

Call for Papers

- [Submission Guidelines](#)
- Scientific Abstract
- Case Report
- Educational Poster

Sponsorship

Registration

## Submission Guidelines

Scientific Abstract

Case Report

Educational Poster

ASCI 2021 invites all interested individuals to participate in scientific sessions and exhibitions online or onsite. All scientific abstracts, case reports, and educational posters must be submitted via this online submission system **ONLY**. The online submission is from 1<sup>st</sup> February 2021 to **16<sup>th</sup> June 2021**. The acceptance notice will be sent by **30<sup>th</sup> June 2021**.

### Topics for Scientific Abstracts, Educational Posters, and Case Reports

1. [Angiography](#)
2. Cardiac mass
3. Cardiomyopathy
4. Cardiovascular CT
5. Cardiovascular MRI
6. Congenital heart disease
7. [Echocardiography](#)
8. Ischemic heart disease
9. Machine learning
10. Nuclear cardiology
11. Structural, valvular and pericardial disease

### Format of Scientific Abstracts, Educational Posters, and Case Reports

- The text of Scientific Abstracts, Educational Posters, and Case Reports should not exceed 250 words (excluding the Title, Authors, and Affiliations).
- The title text should not exceed 20 words. The full title should be provided, without abbreviations.
- Up to 10 authors and affiliations may be included on each Scientific Abstract, Educational Poster, and Case Report.
- **Scientific Abstracts** should be structured as follows: **Objective - Materials & Methods - Results - Conclusions**.
- **Case Reports** should be structured as follows: **Introduction - Clinical Report - Discussion**.
- **Educational Reports** should be structured as follows: **Introduction - teaching point**.
- Graphics and tables cannot be submitted as part of your scientific abstracts.
- E-Poster is the only presenting type of Educational Posters and Case Reports.
- Submitting authors are responsible for proofreading before submission.

### Best Young Presenter Award

- The Best Young Presenter Award (BYPA) will be given to young professionals. Please submit via the online abstract submission system. Based on the review by the ASCI officers, finalists will be selected and make a presentation at the BYPA session.
- **To be eligible for the Best Young Presenter Award:**  
The applicant must be a paid member of ASCI.  
The research work submitted must be unpublished at the time of application.  
The applicant must submit a clear copy of ID indicating date of birth (for proof of age) and a recommendation letter from his/her supervisor. Please send it to the Secretariat of ASCI 2021: [radiologyvn@gmail.com](mailto:radiologyvn@gmail.com)  
Finalists will be selected based on their submitted abstracts and presentation in the 'Best Young Presenter Award' session.



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  - [Visa](#)

## Registration

[Delegate Registration](#)

[Rapporteur Registration](#)

Registration is only available through the online registration system.  
 ASCI 2021 Registration Fee for virtual platform:  
 \*All prices are in USD

Category	Regular ( 1 <sup>st</sup> Feb –31 <sup>th</sup> July 2020 )
Physician (Paid-ASCI Member)	\$30
Physician (Non-paid/Non- ASCI Member)	\$50
Trainee/Non-Physician	Free

1. Registration fee includes admission to all Scientific Sessions and Certificate of attendance.
2. Trainees or non-physicians are required to send a certificate or a letter signed by the hospital director verifying their status with registration.
3. To encourage physicians, radiologists and other professionals to join the ASCI community, we will charge the registration fee for non-paid or non- ASCI member's to all registers apart from trainee, non-physician and accompanying in first place.

To acquire the ASCI membership, please visit the ASCI official website: [www.asci-heart.org](http://www.asci-heart.org).

**Important Dates :**  
 Registration Open: 1st Feb 2020  
 Registration Due: 31th July 2020

**Payment Method :**  
 Payment by Credit Card is the only payment method for online registration.  
 MasterCard, Visa, and JCB are all acceptable.



Congress Overview

Program

Call for Papers

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Asian Society of Cardiovascular Imaging

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BEYOND THE FUTURE OF CARDIOVASCULAR IMAGING:

*Opportunities & Challenges*

VIETNAM, AUGUST 19-21/2021

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# Thank you

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OF CARDIOVASCULAR IMAGING **2021**