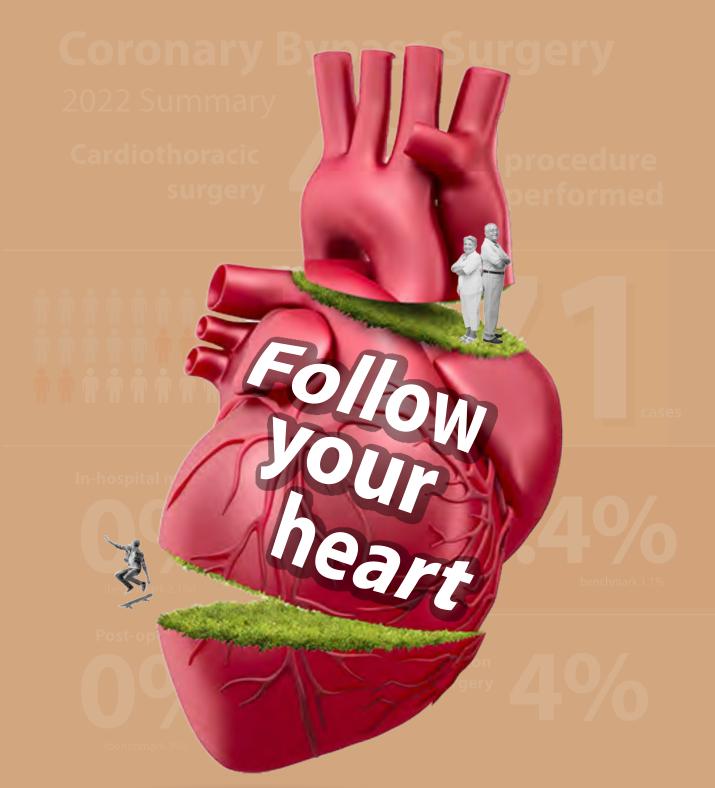


Bumrungrad Heart Institute





Introduction

The heart is the hardest working organ in the body. It works non-stop as long as we live, beating **60-100** times a minute or about **100,000** times a day, pumping oxygen and nutrient-rich blood throughout the body to sustain life.

Presently, Thailand has become a full-fledged aged society, thereby heart diseases and their complications keep rising. According to the World Health Organization, cardiovascular disease is the number one cause of death worldwide, killing approximately 17.9 million people each year. The Heart Institute, Bumrungrad Hospital, in recognizing the importance of continuously improving the quality of care to meet the needs of patients and in dealing with even more complex heart diseases, is committed to delivering safe and world-class quality treatment to our patients.



Vision and Mission

The Heart Institute aims to provide a comprehensive range of treatment and the best possible treatment outcomes for patients of all types of heart diseases.

With the patient-centered approach, the Institute focuses on personalized care in treating the particular and complex diseases and symptoms in each individual patient.

Expert medical specialists, nurses, pharmacists, physiotherapists, dietitians, etc. in a multidisciplinary team collaborate seamlessly to deliver effective care.

A modern institute for cardiovascular treatment and care, the Heart Institute services cover all types of heart diseases, with a Coronary Care Unit (CCU), open 24 hours a day for emergency and postoperative patients so that patients can return to normal daily activities as soon as possible.



Chest pain Fainting, loss of consciousness

Tiredness when lying down



Swelling in the legs

Heart disease symptoms





Unusually getting tired easily



Palpitations, rapid heartbeat



Coronary artery disease



Cardiac preventive and enhancing



Cardiogenetics

pillars of heart

disease care



Cardiac

arrhythmias

Structural heart disease



Congenital heart disease



Heart failure

coronary artery disease

This sub-specialty focuses on the diagnosis and treatment of blockages in the coronary arteries, which can lead to heart attacks and other serious cardiac events.



Cardiologist and Interventionist

Treatment approaches

- Medications
- Coronary angioplasty and stenting
- Coronary artery bypass surgery

🟓 Prevention

- Maintain healthy weight.
- Exercise regularly.
- Do not smoke.
- Reduce stress.
- Eat heart-healthy foods.

Coronary intervention & percutaneous coronary intervention 2022 Summary **Total procedures** 812 cases **PCI** performed 527 cases Composite Average length complications of stay 39% Success rate USA benchmark day 99.2% 2.65% post-procedure USA benchmark **95**%

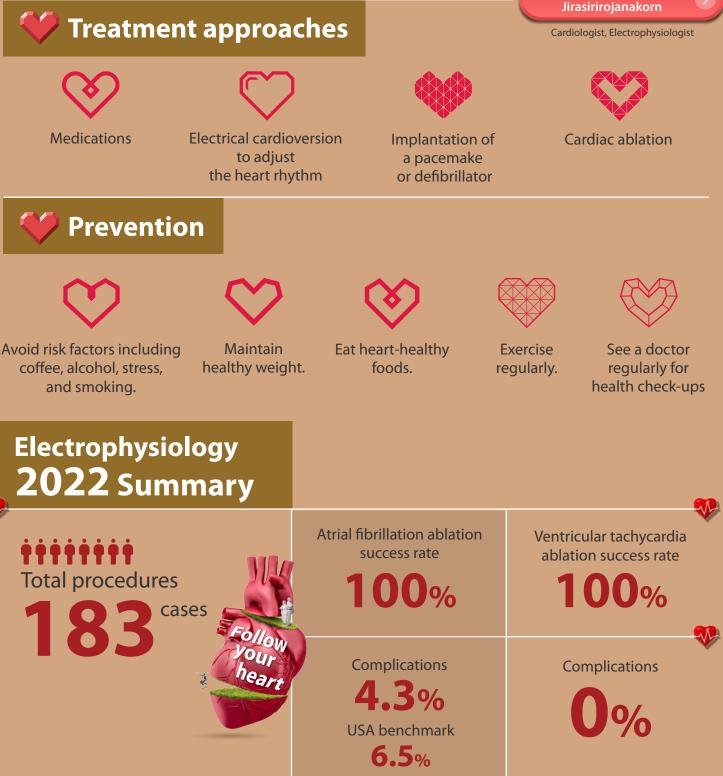
Cardiac Arrhythmia and Electrophysiology

Cardiac arrhythmia and atrial fibrillation (AFib) are important areas of cardiology because they can increase the risk of stroke and other serious cardiovascular events.



and Director of the Bumrungrad Heart Institute



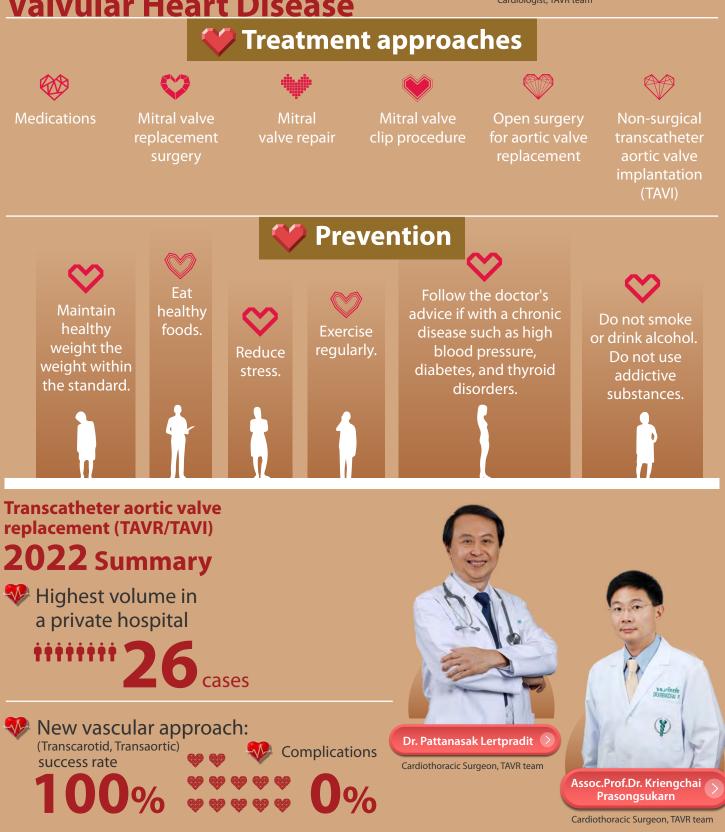


Structural **Heart Disease**

This sub-specialty involves minimally invasive procedures to replace the aortic valve in patients with aortic stenosis, a condition in which the valve becomes narrowed and obstructs blood flow.

Valvular Heart Disease

Dr. Wattanaphol Phipathananunth Cardiologist, TAVR team



Advance Heart Failure and Heart Transplantation

This sub-specialty focuses on the care of patients with severe heart failure, including those who may require advanced treatments from multidisciplinary team or heart transplantation.

Treatment approaches

Assoc.Prof.Dr. Teerapat Yingchoncharoen

> Heart Failure Specialist & Heart Tranplantation

Dr. Aekarach Ariyachaipanich

Heart Failure Specialist & Heart Tranplantation





Medications Use of an automated implantable cardioverterdefibrillator (AICD)

Use of a permanent pacemaker.



Use of a ventricular assist device (VAD)



Heart transplant surgery

Prevention



Keep observing one's own symptoms.



Do not smoke or drink alcohol.



Exercise appropriately.



Consume no more than

2,000 mg of sodium

per day (or 1 teaspoon of salt)

Drink the right amount of water.



Take medications as prescribed by your doctor.



Weigh yourself every day.

Body weight should not increase

more than **1** kg per day.

Keep doctor's appointments as scheduled.

Advanced heart failure 2022 Summary

- Clinical care program certification by JCI
- First and only private hospital in Thailand with heart transplant capability.

1 year surival rate after heart transplantation









Dr. Manasawee Vassara

Cardiologist, Heart failure specialist

Coronary Bypass

This sub-specialty involves surgical procedures to bypass blocked or narrowed coronary arteries, restoring blood flow to the heart muscle.

Coronary Bypass Surgery 2022 Summary

Cardiothoracic surgery

430 procedures performed Coronary artery bypass grafting

UN.MPI

Dr. Pat Ongcharit

Cardiothoracic Surgeon,

Heart Transplant team

Prof.Dr. Vichai Benjacholamas

Cardiothoracic Surgeon, Heart Transplant team



In-hospital mortality

Bumrungrad Heart Institute USA benchmark



Post-op-strok

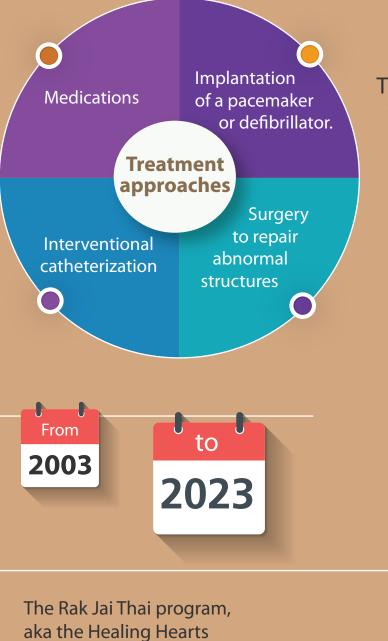


Readmission after surgery



Congenital Heart





This sub-specialty focuses on the diagnosis and treatment of heart defects that are present from birth.



Practice guidelines during pregnancy:

Get

pregnancy

check-ups as

detection of

diseases.

advised for early

Keep underlying diseases such as diabetes under control.

Do not use addictive substances. Do not smoke or drink alcohol.

The Rak Jai Thai program, aka the Healing Hearts program, provided heart surgeries to 8225 underprivileged children

from **50** provinces across Thailand

Cardiogenetics

This sub-specialty deals with the genetic basis of cardiovascular disease, including inherited conditions such as hypertrophic cardiomyopathy and familial hypercholesterolemia.

Prevention

Get genetic testing to detect inherited heart disease risk to plan for prevention and monitoring of disease development. This is suitable for those with history or family history of the following:



With plans to have children



Acute heart attack



Aortic aneurysm, dissection and rupture



Relatives' sudden death while exercising



Relatives' death from heart disease with unknown causes



Parents with heart disease before 45 years old

Cardiogenetics 2022 Summary

Cardiogenetics

Genotype-guided antiplatelet therapy implementation Whole-genome sequencing lab : Familial DCM, FH, inherited arrhythmia

Cardiogenetics

Genotype-guided antiplatelet therapy implementation



CYP2C19 360 cases screening

53% are Clopidogrel non-responders



Asst.Prof.Dr. Polakit Teekakirikul

Cardiac Rehabilitation

This sub-specialty provides supervised exerciseand lifestyle modification programs to help patients recover from heart disease and prevent future cardiac events.



Cardiac Physiologist

Assisting heart disease patients in rehabilitation while also taking the appropriate steps to prevent recurrence.

Helping patients enhance their exercise performance, and assessing their heart health to plan the most appropriate exercise regimens.

Cardiac Rehabilitation 2022 Summary

days

Post op bypass surgery patient reach optimal functional status within



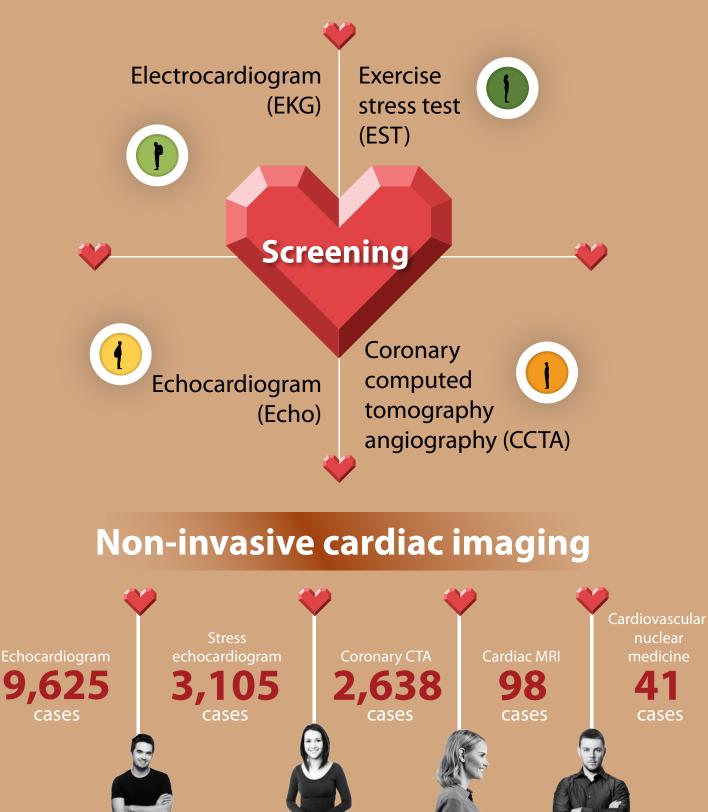
Heart Institute

97% 90%

Post PCI patient reach optimal function status within

cardiac preventive and cardiac imaging

The Heart Institute provides cardiovascular screening and imaging tests, with expertise in specialized imaging including echocardiogram, computerized tomography (CT) scan, and magnetic resonance imaging (MRI), for diagnosis and monitoring of heart disease conditions.







Doctor's Consultations, 24 hours a day, 7 days a week



Contact an Emergency Physician 24/7

via Telemedicine on Demand

**24 hrs / 7 days



Get your medication delivered



Request your medical records



Service is available in many languages:

Amharic, Arabic, Bengali, Chinese (simplify), French, Japanese, Khmer, and Myanmar

READ MORE Q&A

Consult Now





BUMRUNGRAD APPLICATION









LINE