

**Division of Adult Cardiac Surgery,
Department of Thoracic and Cardiovascular Surgery
(Seoul National University Hospital)**

1. Introduction (Adult Thoracic Surgery)

After first open heart surgery in 1963, Adult Cardiac Division of Department of Thoracic and Cardiovascular Surgery in Seoul National University Hospital has led the development of cardiac surgery in Korea and made constant efforts to provide best treatment for patients, best education for medical students, and best research.

Six-hundred major cardiovascular surgery including coronary artery bypass grafting (CABG), valve repair and replacement, aortic surgery, and adult congenital heart surgery are being performed annually. More than 90% of isolated coronary surgery are being performed with off-pump technique. The success rate of valve repair is over 95%. In addition, with a public interest of organ donations in our country, heart transplantation cases are increasing over years. Recently, we are expanding our surgical experiences on robotic surgery, aortic stent grafting and transapical aortic valve implantation.

The surgical team is staffed by 4 professors, 3 board-certified fellows, 4 residents, 3 surgical assistants, 3 physician assistants, and 3 perfusionists.

In addition to the active clinical work, our division also contribute to the clinical researches including radomized controlled trial. Remarkable researches in the field of CABG and valve surgery have been published in SCI journals every year.

Adult Cardiac Division of Department of Thoracic and Cardiovascular Surgery in Seoul National University Hospital could provide best education in the field of adult cardiovascular surgery for the international visitors.

2. Program

2-1. Short-term visiting fellowship program

Duration

2-4 weeks (could be individualized)

Overview

- Learn how to operate cardiopulmonary bypass
- Learn basic skills for valve repair
- Learn strategy and techniques of off-pump CABG
- Learn skills for open aortic surgery and endovascular stent grafting

Contents

① Cardiovascular surgery

Cardiac Surgery

- Valve repair and replacement
- Coronary artery bypass grafting
- Surgery for adult congenital heart disease
- Heart transplantation

Aortic Surgery

- Thoracic aortic surgery
- Abdominal aortic surgery
- Thoracic and abdominal aortic endovascular stent grafting

② Post-operative care

- Early postoperative care in specialized cardiac surgical intensive care unit (8 beds)
- General ward care
- Outpatient clinic

③ Conferences and Seminars

- Multidisciplinary team conference (7am, Friday)
- Saturday seminar: invited lectures by experts in Korea
- Saturday journal review: review of interesting recent articles

2-3. Weekly time tables

	AM	PM
Mon	7:15 Team meeting : review of weekly operation cases 8:00 Valve/Aortic surgery : valve or Aortic aneurysm op	Continued Operation 5:00 ICU round 5:30 Ward round
Tue	8:00 Surgery for IHD : OPCAB, conventional CABG, Surgery for complication of MI	Continued Operation 5:00 ICU round 5:30 Ward round 2:00 Outpatient clinic for aorta
Wed	8:00 Valve/Aortic surgery : valve or Aortic aneurysm op endovascular stent	Continued Operation 5:00 ICU round 5:30 Ward round 1:00 Outpatient clinic for IHD
Thu	8:00 Surgery for IHD : OPCAB, conventional CABG, Surgery for complication of MI	Continued Operation 5:00 ICU round 5:30 Ward round 2:00 Outpatient clinic for Valve Ds
Fri	7:00 Operation case conference : multidisciplinary team conference 8:00 Valve/Aortic surgery : valve or Aortic aneurysm op endovascular stent	Continued Operation 5:00 ICU round 5:30 Ward round
Sat	9:00 Seminar 10:00 Journal review 11:00 Ward round 10:00 Varicose vein operation	

2-3. Long-term visiting fellowship program

Duration

6-12 months (could be individualized)

Contents

- Basic contents and weekly time tables will be similar with short-term program
- Long-term visiting fellow will participate daily clinical and research work as like regular clinical fellows of the division.
- Visiting fellow is encourage to perform research work under the supervision of faculty.

3. Staff

Name	Position	E-mail address
Hyuk Ahn	Professor	ahnhyuk@snu.ac.kr
Ki-Bong Kim	Professor	kimkb@snu.ac.kr
Kyung-Hwan Kim	Professor	kkh726@snu.ac.kr
Ho Young Hwang	Assistant Professor	scalpel@naver.com