

# Development of a new thoracospic cardiovascular surgical systems with CCD camera

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# 2003 Fiscal Year Final Research Report Summary

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Research Project

### Project/Area Number

14370406

### Research Category

Grant-in-Aid for Scientific Research (B)

### Allocation Type

Single-year Grants

### Section

一般

### Research Field

Thoracic surgery

### Research Institution

KANAZAWA UNIVERSITY

### Principal Investigator

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### Project Period (FY)

2002 – 2003

### Keywords

Ultrasound CCD camera / Aortoscopy / Stentgraft / Endoleak

### Research Abstract

[Introduction]Off-pump CABG became standard for ischemic heart diseases, and the endovascular therapy came to be an important treatment strategy for the peripheral arterial diseases today. However, the intracardiac operations or the aortic operations have not been established like this less invasive procedures, because the enough view is not gotten with the filled blood. Usage of the heart-lung machine is still indispensable for these operations now, and the incidence of postoperative complications is also high. An epoch-making treatment like as stentgrafting custody is developed, and there are several problems to be.solved. In this report, we developed the devices for

less-invasive intracardiac and aortic surgeries. These basic experiments were performed by pigs.

1.Development of the angioscope

The improvement was added to the angioscope as follows; The balloon made of the urethane was inflated by CO<sub>2</sub>. The satisfied view was obtained.. No damage in the aorta was caused because of the ba ...▼ More

## Research Products (12 results)

All	2005	2004	2003
All	Journal Article		

[Journal Article] An early experience of the urgent M-K stentgrafting for thoracic aortic injury	2005 ▼
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[Journal Article] Stent Placement to Treat Buttock Claudication Caused Internal Iliac Artery Dissection	2004 ▼
[Journal Article] An experimental study of a new pull-through technique for the aortic arch aneurysm in the porcine model	2004 ▼
[Journal Article] Intramyocardial CD34+ Cell Transplantation Combined with Off-Pump Coronary Artery Bypass Grafting	2004 ▼
[Journal Article] Stent Placement to Treat Buttock Claudication Caused by Internal Iliac Artery Dissection	2004 ▼
[Journal Article] An experimental study of a new pull-through technique for the aortic arch aneurysm in the porcine model	2004 ▼
[Journal Article] Intramyocardial CD34+ Cell Transplantation Combined with Off-Pump Coronary Artery Bypass Grafting	2004 ▼
[Journal Article] Flow simulation of the intracoronary shunt tube for off-pump coronary artery bypass	2003 ▼
[Journal Article] Efficacy and Adverse Effects of the Coronary Active Perfusion System-From a Viewpoint of Perfusional Timing-	2003 ▼
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[Journal Article] Efficacy and Adverse Effects of the Coronary Active Perfusion System-From a Viewpoint of Perfusional Timing-	2003 ▼

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