超音波CCDカメラを用いた完全鏡視下心腔内・大血管内手術systemの開発

著者	渡邊 剛
著者別表示	Watanabe Go
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2003 Fiscal Year Final Research Report Summary

Development of a new thoracoswpic cardiovascular surgicall systems with CCD camera

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

WATANABE Go Kanazawa University, Graduate School of Medical Science, Professor, 大学院・医学系研究科, 教授 (60242492)

Co-Investigator(Kenkyū-buntansha)

YAMAKOSHI Kenichi Kanazawa Univ., Graduate school of Natural Science & Technology, Professor, 大学院・自然科学研究科, 教授 (40014310)
OHTAKE Hiroshi Kanazawa Univ., Dep.of Medicine University Hospital, Dep.of General & Cardiothoracic Surgery, Instructor, 医学部附属病院, 講師 (60283131)
NAGAMINE Hiroshi Kanazawa Univ., Dep.of Medicine University Hospital, Dep.of General & Cardiothoracic Surgery, Assistant Prof., 医学部附属病院, 助手 (60343183)

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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 intracardic 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_2. 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 Transplanation Combined with Off-Pump Coronary Artery Bypass Grafting 2004

[Journal Article] Stent Placement to Treat Buttock Claudication Caused by Internal Iliac Artery Dissection 2004

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[Journal Article] Intramyocardial CD34+ Cell Transplanation 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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