

## **Institutional animal care and use committee statement**

# **Peroral traction-assisted transanal NOTES rectosigmoidectomy followed by intracorporeal colorectal anastomosis in a live porcine model**

**Running title:** NOTES rectosigmoidectomy in a live porcine model

Hong Shi, Suyu Chen, Zhao fei Xie, Rui Huang, Jiali Jiang, Juan Lin, Fangfen Dong, Jiaxiang Xu,  
Zhili Fang, Junjie Bai, Ben Luo

### IACUC Approval

All procedures involving animals were reviewed and approved by the Institutional Animal Care and Use Committee of Beijing Pinggu Hospital and Fuzhou General Hospital of Nanjing Military Command (protocol number: 2014-ZQN-ZD-6).

The Tab of Animal Experimental Ethical Inspection

NQ: IACUC-2015-010

<b>Concerned Information wrote by applicant</b>	<b>Name of organization:</b> Fujian Cancer Hospital/ Fujian Medical University Cancer Hospital	
	<b>Education of applicant:</b> MS	<b>Professional title:</b> Chief physician
	<b>Study title :</b> Peroral traction-assisted transanal NOTES rectosigmoidectomy followed by intracorporeal colorectal anastomosis in a live porcine model (Young and Middle-aged Mainstay Talent Training Program of Fujian Provincial Health System, China, No 2014-ZQN-ZD-6)	
	<b>Aim of experiment :</b> To introduce one novel technique of peroral external traction-assisted transanal NOTES rectosigmoidectomy followed by intracorporeal colorectal end-to-end anastomosis by using only currently available and flexible endoscopic instrumentation in a live swine model.	
	<b>Source of animal:</b> Shanghai Jiagan Biotechnology Co.,Ltd	
	<b>Species or strain:</b> BAMA Minipig	<b>Grade:</b> Conventional environment
	<b>Number:</b> 6 (♀3; ♂3)	<b>Application date:</b> 2015/06/01
<b>Entering date:</b> 2015/07/01	<b>Ending date:</b> 2017/06/30	
<p>Outline of experiments, experimental methods, observational index, executing animal method et. al: Three to six swine weighing 25-30kg were chosen to undergo NOTES rectosigmoid resection. After the procedure, all the animals were euthanized immediately, abdominal exploration was performed and the air-under-water leak test was done. The pelvis was filled with normal saline, and the rectum was insufflated to confirm whether the anastomosis was air tightness.</p> <p>The primary outcome of this study was the procedure success rate. Secondary outcomes were total operative time, the specimen length, the completeness of colorectal anastomosis and adverse event rate in the perioperative period. At necropsy, the anastomosis was tested for leaks using the air-under-water test.</p>		
<b>Announcement of applicant</b>	I will abide by the rules of animal experimental ethics, accept the supervision and inspection of the animal experimental ethics committee, and accept the punishment in case of any infringement.	
	<b>Signature of applicant:</b> 陈永	<b>Telephone:</b> 13959105615
<b>Inspection contents</b>	<p>Does laboratory animal must be used in the project? Could other methods such as computer simulation, cell cultivation or using the low-grade animal instead of the high-grade animal? Are the qualification of applicant, species or strain, grade and specifications of animals suitable? Could the quantity of animals be reduced by improving the study design or using high quality animals?</p> <p>Could the study design and animal treatment be refined by ameliorating experimental method, adjusting observational index, executing animal method?</p>	
<b>Results of inspection</b>	<b>Study director:</b> Agree <input checked="" type="checkbox"/> Disagree <input type="checkbox"/>	<b>Signature</b> 陈永
	<b>Director of Dept. of Comparative Medicine:</b> Agree <input checked="" type="checkbox"/> Disagree <input type="checkbox"/>	<b>Signature</b> 李和平
	<b>Animal Ethics Committee:</b> Agree <input type="checkbox"/> Disagree <input type="checkbox"/>	<b>Stamp</b>
<b>Supplement:</b>		

# 实验动物使用许可证

许可证号: SYXK(闽)2013-0005

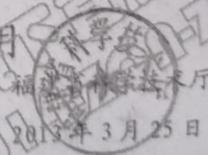
单位名称: 南京军区福州总医院

法定代表人: 吴志成

设施地址: 福州市西环北路 156 号总院比较医学科

适用范围: 普通级: 兔、豚鼠、犬、小型猪、猴

有效时间: 2013 年 3 月 - 2018 年 2 月



# 实验动物使用许可证

许可证号：SYXK（京）2015-0022

单位名称：北京市平谷区医院

法定代表人：刘力戈

设施地址：北京市平谷区王辛庄镇校园路3号

适用范围：普通环境：犬、小型猪

有效期：  
2015年8月18日至2020年8月18日

