



6th World Congress of Minimally Invasive Spine Surgery & Techniques

9th Asian Congress of MISS
2018 Minimally Invasive Spine Surgery Annual Meeting of CAOS, CMDA

Agenda Book

Jun.7-10, 2018
Chongqing, China

主办方:

中国医师协会
中国医师协会骨科医师分会

主承办方:

陆军军医大学附属新桥医院

联合承办方:

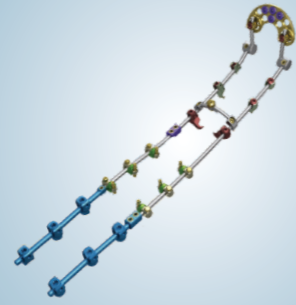
WCMISST (世界微创脊柱外科技术协会) | ACMISST (亚洲微创脊柱外科协会)
NASS (北美脊柱协会) | EUROSPINE (欧洲脊柱协会)
中国医师协会骨科医师分会脊柱微创专业委员会 | 中国康复医学会脊柱脊髓专业委员会脊柱微创外科学组
SICOT中国部脊柱微创外科分会 | 中国医师协会内镜医师分会脊柱内镜专业委员会
海峡两岸医药卫生交流协会骨科分会微创专业委员会 | 世界华裔骨科医学会 | 重庆市医师协会骨科医师分会

O-ARM IMAGING SYSTEM
O型臂术中影像系统



国食药监械(进)字2011第2302435号

VERTEX SELECT
枕颈胸后路重建系统



国食药监械(进)字2017第3400615号

ALLEVIATE PAIN
RESTORE HEALTH
EXTEND LIFE
减轻病痛 恢复健康 延长寿命



OLIF25 PROCEDURE
斜侧入路椎体间融合术

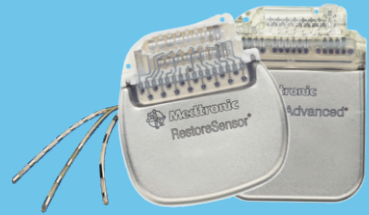


CLYDESDALE
椎间融合器

国食药监械(进)字2019第3403218号

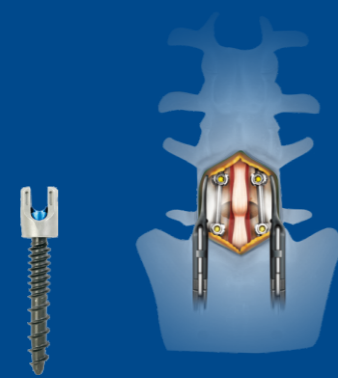
每1秒
挽救或改善
2个人的生命

SCS脊髓电刺激疗法



国械注进20173211182

MAST MIDLF PROCEDURE
皮质骨螺钉中线固定及融合技术



该技术需配合
CD HORIZON SOLERA
系统操作使用

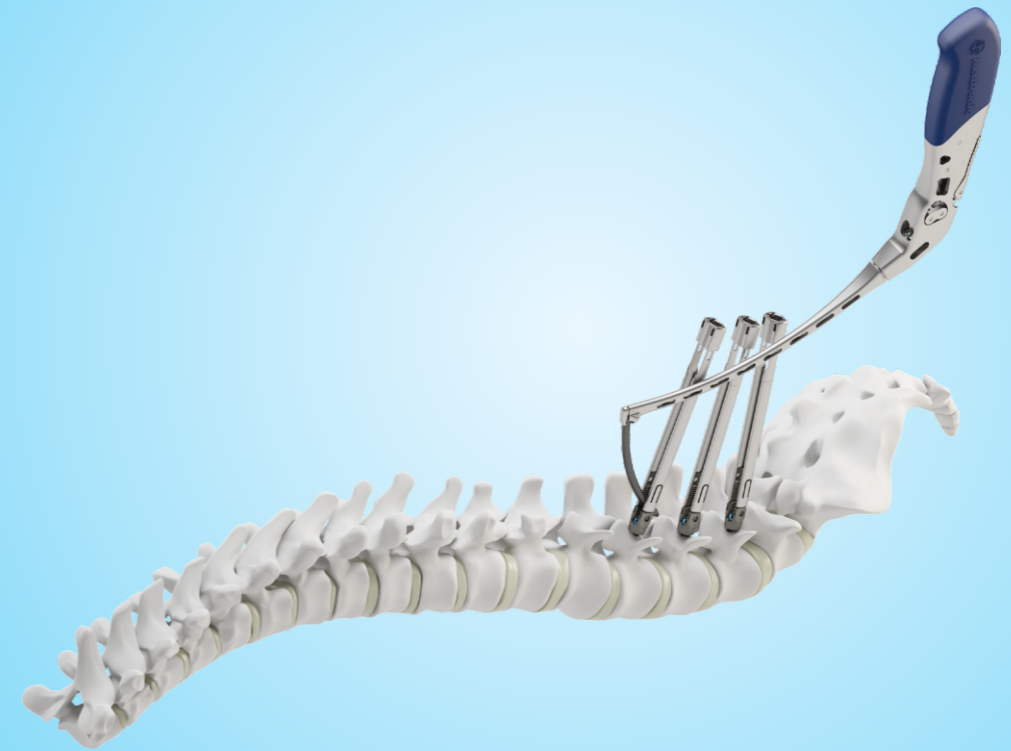
国械注进20153460096

欢迎莅临

美敦力 展位
重庆丽笙世嘉酒店四层
7号展位

CD HORIZON® SOLERA® VOYAGER™ Spinal System 新一代经皮&肌间隙椎弓根螺钉系统

- 双重超低切迹设计
- 支持两种穿棒方式
- 优化工具高效便捷
- Ultra Low Profile
- Flexibility Of The Rod Passing
- Simplicity Of Use

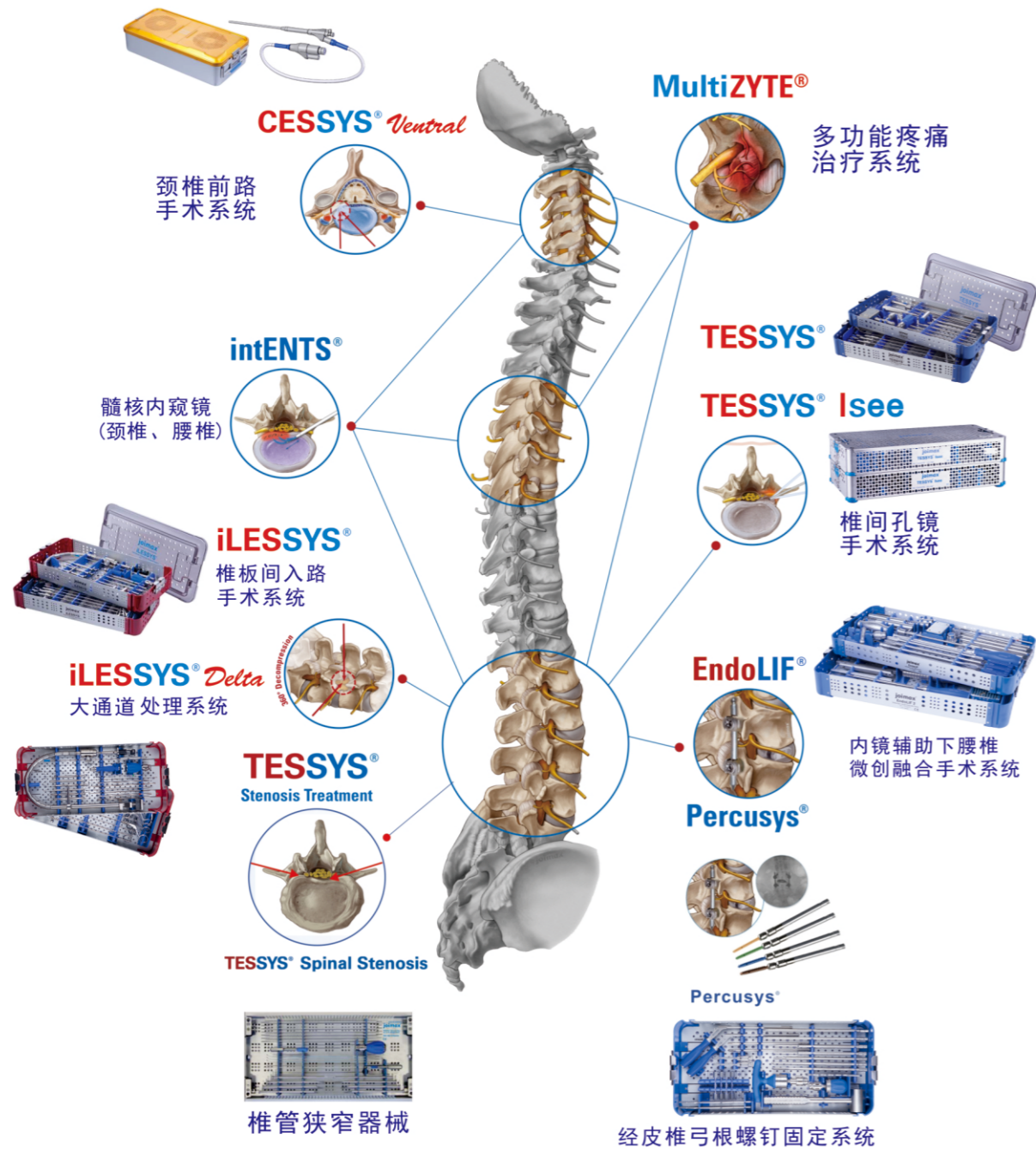


Medtronic 美敦力
Further, Together



Medtronic 美敦力
Further, Together

脊柱内窥镜 微创手术专家



脊柱内窥镜 微创手术专家

III-Pillar Spinal Therapy Program



joimax中国总代理：上海懋煜医疗器械有限公司

joimax中国总代理：上海懋煜医疗器械有限公司



Skyline
Anterior Cervical Plate System
颈椎前路固定系统



Zero-P VA
零切迹颈椎椎间融合固定系统



Arch
椎板成型系统

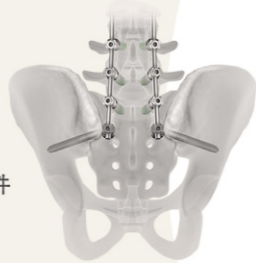
MOUNTAINEER
枕颈胸椎柱内固定系统

颈前路解决方案

颈后路解决方案

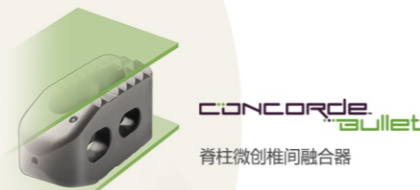
传承经典 卓越创新

矫形侧弯解决方案

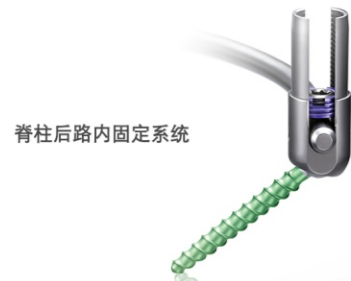


脊柱后路内固定系统组件

微创手术解决方案



CONCORDE
Lumet
脊柱微创椎间融合器



脊柱后路内固定系统



脊柱微创固定系统

生产企业名称: Medos International S.A.R.L.
 产品名称: 脊柱微创固定系统 Viper System 注册证编号: 国械注进20163462360
 产品名称: 枕颈胸后路内固定系统 Mountaineer OCT SPINAL FIXATION SYSTEM 注册证编号: 国械注进20173467259
 产品名称: 脊柱微创椎间融合器 Minimal Invasive Surgery Cage 注册证编号: 国械注进20173461069
 产品名称: 脊柱后路内固定系统组件 Expedium Posterior Spine System 注册证编号: 国械注进20173466697
 产品名称: 脊柱后路内固定系统 (商品名: Expedium) 注册证编号: 国械注进20183461687
 产品名称: 颈椎前路固定系统 (商品名: Skyline) 注册证编号: 国械注进20183461660
 产品名称: 颈椎骨水泥系统 Confidence Spinal Cement System 注册证编号: 国械注进20153461741
 生产企业名称: DePuy Spine
 产品名称: 脊柱畸形固定系统组件 Viper System 注册证编号: 国械注进20163464269

广告批文:
禁忌症与注意事项详见说明书

PM Code : A20180412Spine0001

代理人: 强生 (上海) 医疗器械有限公司

生产企业名称: Synthes GmbH

产品名称: 颈椎前路椎间融合固定系统 Zero-P VA 注册证编号: 国械注进20173462101

产品名称: 脊柱内固定系统-椎板成型系统 ARCH Laminoplasty System

注册证编号: 国械注进20153461685



诊断如影 关爱随行

BodyTom™ 是 NeuroLogica 公司移动式计算机体层扫描影像产品线中的最新产品。它是一台完全移动式全身 32 层 CT, 有着 85 厘米的超大扫描孔径和 60 厘米视野 (FOV)。为 BodyTom™ 供电的电池可使它轻易移动到需要它的地方, 扫描时病人无需移动便可接受到从头到脚的影像诊断。BodyTom™ 符合 DICOM 3.1 标准, 并兼容所有 PACS、手术导航、电子病历。

- 超大的扫描孔径
- 球管发射功率较小、相比固定式 CT 辐射低、无需专属防护房间
- 普通电源及自带蓄电池便可进行扫描
- 可以广泛的应用于普外科、胸外科、神经外科、脊柱外科、放射科、手术室、介入放射科等科室



FOSUN PHARMA
复星医药成员企业

NeuroLogica

无“微”不至 精益求精



Zina[®]
杰娜™ 脊柱微创系统
Zina[®] MIS Spine System



Zola[®]
佐拉™ 脊柱钉板系统
Zola[®] MAST Plate System



ZERO[™]
杰罗™ 微创拉钩系统
The MAST
Zero Retraction System



KEYSTONE[™]
楔石™ 融合器系统
Keystone[™]
Lumbar Fusion System



Lora[™]
罗拉™ 微创横向单平面技术
脊柱骨折复位固定系统
Lora[™] MIS Spine Injury
Reduction and Fixation System



Zita[™]
Zita西塔微创经皮骨水泥
螺钉系统
Zita MIS Bone Cement Reinforced
Pedicle Screw-rod System



C-Ring[™]
C-Ring™ 拉钩系统
The C-Ring[™]
Retraction system



更好的术中体验 · 更佳的后效果

卡尔蔡司（上海）管理有限公司

中国（上海）自由贸易试验区美约路60号(200131)
电话: +86 21 2082 1188 传真: +86 21 5048 1193
网址: www.zeiss.com.cn



上海三友医疗器械股份有限公司
SHANGHAI SANYOU MEDICAL CO.,LTD

地址/ 上海市浦东新区仁庆路356号3幢2层 邮编: 201201
Add/356 Renqing Rd, Bldg3-2F, Shanghai, 201201, China
电话(Tel)/ +86 21 58389980
传真(Fax)/ +86 21 38682915

注:本产品的适应症和规格请参阅注册证或咨询有经验的专科医生

B6 Duo 第六代G型臂

术中正侧位双向实时全景成像系统
多轴联动透视角度更大，适用于脊柱侧弯矫形等高难度骨科手术



P9cv

全球唯一心脏3D PW

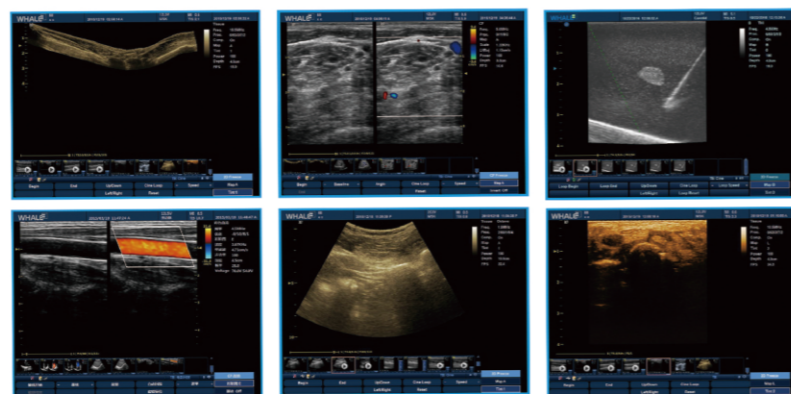


Delta P7

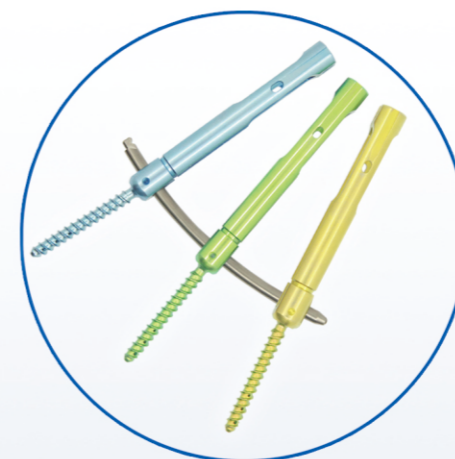
MSK ultrasound system

MSK图像参数预设值
自适应宽景成像
穿刺增强模式

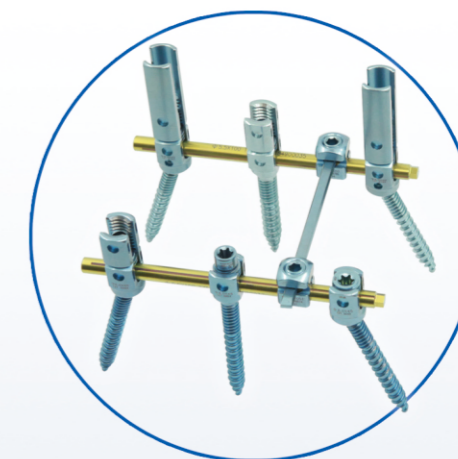
20s 具有急速冷启动的特性，
仅需要短短的20S



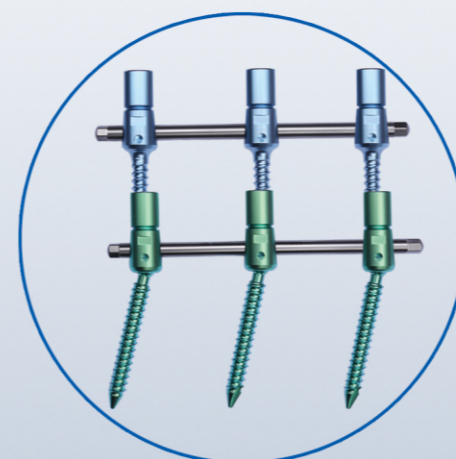
IRENE 正天



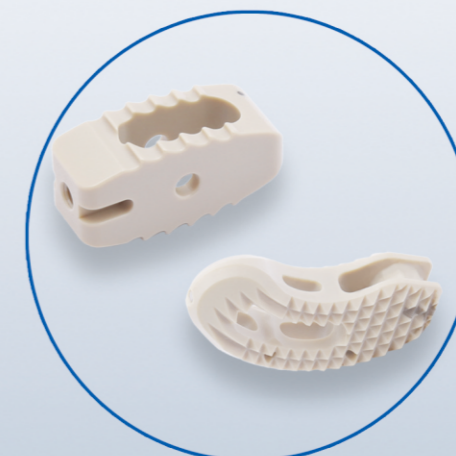
脊柱矫形固定器 (MIS Plus)



脊柱矫形固定器 (Titan)



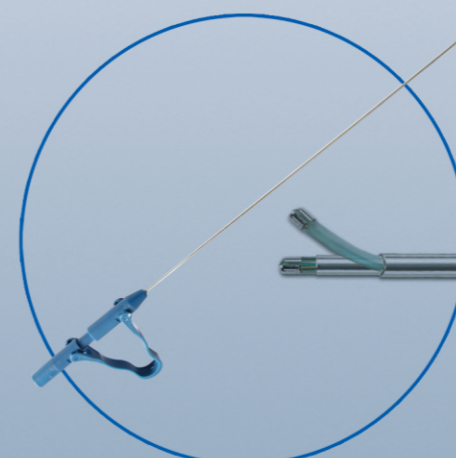
脊柱矫形固定器 (HXN型)



腰椎后路椎间融合器



杰西慧中



椎间孔镜刀头



一体化颈椎 / 腰椎刀头

Flex T1 如意钻

刚性无级变向磨钻技术



0-36° 往复无级变角



0-360° 往复旋转

更灵活

刀头无级变角及旋转设计，在“狭窄而复杂”手术区磨削出更大、精准、超立体空间

更安全

全球首创“T”型轴传动设计，磨削更加稳定，安全精细的创建术中骨性通道

更高效

“刚”性传动设计，极大地提升了骨质的磨除效率，节约术中时间

DK-O-MVS

综合脊柱手术动力装置

适用于经皮内镜，开放式，微通道手术

临床应用：

- 椎管\侧隐窝，椎间孔狭窄
- 椎管成形术，椎板间孔成型
- 椎板切除减压术
- 软组织刨削.....



Lusta
椎管狭窄系统

工作腔内径7.1mm，工作长度100mm / 139mm



CE 0483 FDA

Drill System 高速脊柱动力系统(50000转/分钟)

脊柱外科专用，适用于脊柱开放手术，脊柱微创手术。



Lusta
椎管狭窄
内镜系统

FULLsee
全视下
成形系统

FPT-Tech
保护套管下
椎间孔
安全成形技术
FPT-Tech:
Foraminoplasty within
Protective Tube

PE-TLIF
脊柱内镜
融合系统

Cervical
(anterior and
posterior)

胸椎镜系统
(后路椎板间/
经椎间孔和椎
间孔外)

Thoracic
(posterior
interlaminar, trans- and
extraforaminal)

腰椎镜系统
(后路椎板间/
经椎间孔和椎
间孔外)

Lumbar
(posterior
interlaminar,
trans- and
extraforaminal)

“镜其所能” SPINENDOS全脊柱内镜手术经典病例研讨会

时间：2018年6月8日 13:00-17:30

地点：重庆市南岸区南滨路22号，重庆丽笙世嘉酒店4楼会议室1

**德国思派安德斯
全脊柱内镜技术推广中心**

地址：北京市西城区莲花池东路106号汇融大厦B座603室
邮编：100055
电话：86-10-63951513/23/33
传真：86-10-63951297
网址：www.spinendos.com.cn
邮箱：info@spinendos.com

目录 CONTENTS

欢迎辞	01-02	Welcome Message
组织架构	03-06	Committees
大会重要信息	07-08	Basic information of the general assembly
日程一览表	09-10	Schedule
大会交通信息	11-12	Traffic information of the general assembly
大会日程	13-43	conference agenda
企业介绍	44-49	Enterprise introduction

Welcome Message

Dear distinguished colleagues :

I am pleased and honored to invite you to the 6th World Congress of Minimally Invasive Spine Surgery & Techniques, the 9th Asian Congress of MISS and 2018 Minimally Invasive Spine Surgery Annual Meeting of CAOS, CMDA from Jun.7-Jun.10 2018 in Chongqing, China. It is my great pleasure to invite you to attend this premier congress in orthopedics.



The Congress is held by Xinqiao Hospital of Army Medical University, cooperated with Chinese Medical Doctor Association (CMDA), Chinese Association of Orthopaedic Surgeons (CAOS), World Congress of Minimally Invasive Spine Surgery & Techniques (WCMISST), North American Spine Society (NASS), EUROSPINE, Minimally Invasive Spine Committee of CAOS, Minimally Invasive Spine Surgery Branch of Spine and Spinal Cord Professional Committee, Chinese Association of Rehabilitation Medicine Minimally Invasive Spine Surgery Society of SICOT China, Spine Endoscopic Committee of Chinese Medical Association and Chongqing Association of Orthopedic Surgery, Chongqing Medical Doctor Association.

The Congress will provide great opportunity to strengthen cooperation and mutual communication between NASS, EUROSPINE and WCMISST. It aims to improve diagnoses of spinal conditions, to enhance surgeons' knowledge, competence and performance on minimally invasive spine surgery as well. Besides, famous minimally invasive spine surgeons will be invited to participate in case discussion and debate, who will present and mainly focus on the spine microscopic endoscopic surgery, minimally invasive fixation and fusion surgery, digital and intelligent minimally invasive surgical techniques in detail. All members of the committee will be dedicated to providing an unforgettable and worth attending meeting. I am looking forward to welcoming your participation in Chongqing!

Yue Zhou

President of the 6th WCMISST

欢迎辞

亲爱的全球脊柱微创外科同道们：

第六届世界微创脊柱外科大会暨第九届亚洲微创脊柱外科大会及 2018 中国医师协会骨科医师分会脊柱微创外科大会即将在美丽的山城 - 中国·重庆隆重举行。我谨代表世界脊柱微创外科学会，向来自全中国及世界各地的脊柱微创外科同道们表示热烈的欢迎和亲切的问候！

本次会议定于 2018 年 6 月 7-10 日于重庆丽笙世嘉酒店召开，会议由中国医师协会、中国医师协会骨科医师分会主办，陆军军医大学附属新桥医院

承办，世界微创脊柱外科学会(WCMISST)、北美脊柱协会(NASS)、欧洲脊柱学会(EUROSPINE)、中国医师协会骨科医师分会脊柱微创专业委员会、中国康复医学会脊柱脊髓专业委员会脊柱微创外科学组、SICOT 中国部微创外科分会、中国医师协会内镜医师分会脊柱内镜专业委员会、海峡两岸医药卫生交流协会骨科分会微创专业委员会、世界华裔骨科医学会、重庆市医师协会骨科医师分会共同协办。

大会将邀请到全球脊柱微创外科领域顶级专家，就脊柱显微内镜外科技术，微创固定与融合外科技术，数字与智能微创外科技术进行学术交流与讨论。同时旨在加强中外脊柱微创外科界与世界微创脊柱外科界之间的相互了解与合作，进一步推动中国微创脊柱外科事业走向国际。

季夏六月，山城相聚。重庆是一座具有独特魅力的城市，城在山上，山踞城中；江拥山势，山携江风；重庆是立体之城、山水之城、人文之城、历史之城、美景之城、美食之城，重庆是一个非去不可的地方！第六届世界微创脊柱外科大会暨第九届亚洲微创脊柱外科大会及 2018 中国医师协会骨科医师分会脊柱微创外科大会诚邀您的参加！



周喆

大会主席

Committees

Honorary Chair



Yan Wang
(CHN)

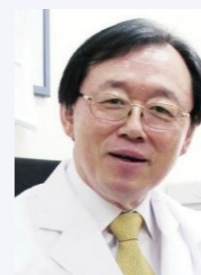


Sang-Ho Lee
(KOR)



Anthony T. Yeung
(USA)

Special Guest



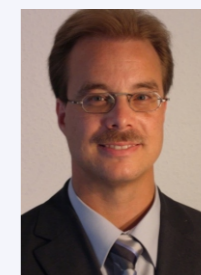
Chun-Kun Park
(KOR)



Richard G. Fessler
(USA)



Michael Mayer
(GER)



Thomas R. Blattert
(GER)



Guixing Qiu
(CHN)



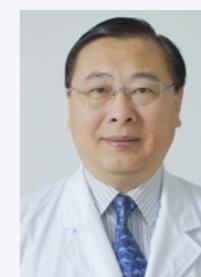
Yingze Zhang
(CHN)



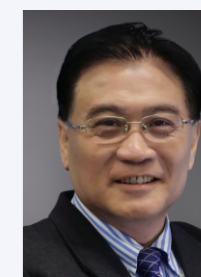
Shangli Liu
(CHN)



Shuxun Hou
(CHN)



Wei Tian
(CHN)



Yong Qiu
(CHN)



Zhongjun Liu
(CHN)



Zhongqiang Chen
(CHN)



Guoxian Pei
(CHN)



Wen Yuan
(CHN)

Committees

Chair	 Yue Zhou (CHN)		
Co-Chair	 Jeffrey C. Wang (USA)	 Shaokhe Hsu (CHN)	
Executive chair	 Gun Choi (KOR)		
Elected President	 Akira Dezawa (JPN)	Academic Committee Chair	 Jinsung Luke Kim (KOR)
Organization Committee Chair	 GuoHua Lv (CHN)	 Huilin Yang (CHN)	 Xiaoguang Liu (CHN)
	 Shiqing Feng (CHN)	 Yong Hai (CHN)	 Changqing Li (CHN)

Committees

Academic Committee			
Chair			
Jinsung Luke Kim (KOR)			
Vice-chair			
Junseok Bae (KOR) Fujio Ito (JPN) Tarik Yazar (TUR) Sebastian Ruetten (GER) Guohua Lv (CHN) Xiaoguang Liu (CHN) Limin Rong (CHN)			
Committee Member			
Alastair Gibson	(US)	Albert Telfian	(USA)
Arun Bhanot	(IND)	Bing Wang	(CHN)
Bong-Soo Kim	(USA)	Changqing Li	(CHN)
Cheul-Woong Park	(KOR)	Chien-Min Chen	(CHN)
Chris Hofstetter	(USA)	Chul Woo Lee	(KOR)
Dinh Ngoc Son	(VIE)	Dong Ah Shin	(KOR)
Frederic Jacquot	(FRA)	Ghazwan A. Hasan	(IRQ)
Gun Keorochana	(THA)	Guntram Krzok	(GER)
Hani Mhaidli	(ESP)	Patrick Hsieh	(USA)
Hyeun Sung Kim	(KOR)	IIAden Choi	(KOR)
Javier Quillo Olvera	(MEX)	Jeffrey Roh	(USA)
Jeong-Yoon Park	(KOR)	Jian Wang	(CHN)
Jin-Hwa Eum	(KOR)	Jixian Qian	(CHN)
Keya Mao	(CHN)	Kyung-Chul Choi	(KOR)
Masato Tanaka	(JPN)	Menno Ipreburg	(NLD)
Nico Prada	(COL)	Niraj Vasavada	(IND)
Pil Sun Choi	(BRA)	Pradyumna Pai Raiturkar	(IND)
Ralf Wagner	(GER)	Richard A. Hynes	(USA)
Shisheng He	(CHN)	Satishchandra Gore	(IND)
Stefan Hellinger	(KOR)	Wenjun Wang	(CHN)
Wiryawan Manusubroto	(INA)	Xiaojian Ye	(CHN)
Yong Jun Jin	(KOR)	Yoshihisa Kotani	(JPN)
Yu Liang	(CHN)	Zenghui Wu	(CHN)

Committees

Organizing committee(All from China)

Chair

Guohua Lv Huilin Yang Xiaoguang Liu Shiqing Feng Yong Hai Changqing Li

Vice-chair

Jixian Qian Limin Rong Xiaojian Ye Heping Yin
Huimin Zhu Xiaofeng Xu Xifeng Zhang Xiaojian Wang Bolai Chen

Committee Member (sort by alphabetic alphabet.)

Bailian Liu	Baoge Liu	Baoshan Xu	Bing Wang
Bo Huang	Changjiang Zhang	Chao Zhang	Chenhui Shi
Chuanhai Jiang	Chunhai Li	Chunlin Zhang	Dajiang Ren
Dong Wang	Fei Dai	Feng Chang	Feng Zhang
Feng Zhu	Gang Rui	Guangzhi Ning	Guoqi Niu
Guoyong Yin	Haibin Lin	Haibo Zou	Haijun Teng
Haitao Tan	Han Wu	Haoning Zhao	Hongwei Zhao
Hua Guo	Hui Leng	Hui Liu	Jiancheng Xi
Jiancheng Zeng	Jiancuo A	Jianwen Dong	Jiawen Guan
Jincai Yang	Jinhan Lv	Keya Mao	Keyi Yu
Liang Chen	Lin Liu	Mansheng Duan	Ming Yan
Ning Xie	Peng Huang	Qiang Fu	Qingbing Meng
Qingchu Li	Qingquan Kong	Qinyi Liu	Qiulin Zhang
Qun Yang	Ruoxian Song	Shisheng He	Shulian Chen
Wei Li	Wei Zhang	Weifeng Zhao	Weiguang Hou
Weihong Yi	Weihu Ma	Weili Fan	Wenbo Liao
Wenbo Wang	Wenfei Ni	Wenjie Zheng	Wenjun Wang
Wenzhi Zhang	Xiangyang Liu	Xianwen Shang	Xiaoming Xiong
Xigao Cheng	Xinlei Xia	Xuqiang Liao	Yi Jiang
Yifei Huang	Ying Zhuang	Yingjie Zhou	Yong Pan
Yong Yang	Yu Liang	Yuanming Chen	Zenghui Wu
Zhen Wang	Zhengxu Ye	Zhenzhou Li	Zhibin Meng
Zhong Liao	Zhong Zheng	Zhongliang Deng	Zhongwu Ren

Basic information of the general assembly

Date

Jun.7(Thursday) – Jun.10 (Sunday)

Venue

Add : Banquet Hall ,4F, Radisson Blu Plaza Chongqing
No.22, Nanping Road, Nan' an District, Chongqing
Tel : 86-23-88668888

Registration

09 : 00-22:00 Jun.7 (Thursday) Foreign Guests

09 : 00-22:00 Jun.8 (Friday) Domestic VIPs and Participants

Venue

Lobby in Radisson Blu Plaza Chongqing (No.22, Nanping Road,
Nan' an District, Chongqing)

Language

English and Chinese

Academic Credit

The conference awards 8 points for class I credits of national continuing education

Meal

A unified conference lunch is provided on Jun.9

Credits To Receive

Time:10:00-12:00 , Jun.10 , 2018

Location:Attendees(lobby in Radisson Blu Plaza Chongqing)

Method:Get the credits with the registration sheet

Exhibition

Orthopadic related corporate exhibition will be held during this conference

Location: Radisson Blu Plaza Chongqing

Date: Jun.9 -10, 2018

Registration Before Conference

Please take your ID card to the registration desk to get the conference files,
invoices and other items when attending the conference.

Kindly Reminder

There is REST AREA for attendees in Yangtze 4&5 on 3F in Radisson Blu Plaza.
you could have coffee break during Jun.9-10, and have lunch on Jun.9

大会基本信息

会议时间

6月7日(周四) - 10日(周日)

会议地点

地点：重庆丽笙世嘉酒店四层宴会厅
地址：重庆市南岸区南滨路22号
电话：(023) 88668888

报到时间

2018年6月7日(周四) (09:00-22:00) 外宾注册报到
2018年6月8日(周五) (09:00-22:00) 国内vip及国内参会代表报到注册

报到地点

地点：重庆丽笙世嘉酒店(重庆市南岸区南滨路22号)一层大堂

会议语言

会场：中文、英文(同声翻译)

学分分值

本次会议授予国家级I类学分8分

学分领取

时间：2018年6月10日10:00-12:00
地点：参会报到处(重庆丽笙世嘉酒店一层大堂)
领取方式：凭报到流程单领取学分册

会议用餐

大会为注册代表在6月9日中午提供统一会场午餐

展览

本次会议期间同时举办骨科相关领域的企业展览
地点：重庆丽笙世嘉酒店
时间：2018年6月9日至10日

参会报到

参会时，请您携带本人身份证到注册处报到，领取会议资料、发票等物品。

温馨提示

本次大会在丽笙世嘉酒店长江4&5会议室设有休息区，将为参会代表提供6月9日、6月10日的茶歇和6月9日的午餐。

Schedule

The 6th World Congress Of Minimally Invasive Spine Surgery & Techniques Schedule

Time	Content	
Jun.7 (Thu)		
09:00-22:00	Registration	
Jun.8 (Fri)		
09:00-22:00	Registration	
08:00-17:30	Training Course 1: OLIF Technique	(Marriott hotel)
14:00-17:00	Training Course 2: MIS-TLIF Technique	(Radisson Blu Plaza)
14:00-17:30	Training Course 3: Z-MISS & CLIF Techniques	(Radisson Blu Plaza)
08:30-17:40	Training Course 4: Percutaneous Endoscopic Surgery--Delta Decompression Technique	(Sheraton hotel)
13:00-18:00	Training Course 5: Percutaneous Endoscopic Surgery--Case Presentations	(Radisson Blu Plaza)
14:00-18:00	Training Course 6: Percutaneous Endoscopic Surgery--Surgery Demonstrations	(Radisson Blu Plaza)
Jun.9 (Sat)		
08:00-08:30	Opening Ceremony	(Radisson Blu Plaza)
08:30-18:00	President speech & invited Speech	(Radisson Blu Plaza)
12:00-18:20	Satellite meeting	(Radisson Blu Plaza)
Jun.10 (Sun)		
08:25-12:00	Spinal Endoscopic Technique	(Radisson Blu Plaza)
08:00-11:45	Digital and Intelligent Minimally Invasive Technique	(Radisson Blu Plaza)
08:00-12:00	Minimally Invasive Fusion Technique	(Radisson Blu Plaza)

日程一览表

第六届世界微创脊柱外科大会日程一览表

时间	课程安排
6月7日 (周四)	
09:00-22:00	报到注册
6月8日 (周五)	
09:00-22:00	报到注册
08:00-17:30	课程培训1: OLIF 技术 (万豪酒店)
14:00-17:00	课程培训2: MIS-TLIF 技术 (丽笙世嘉)
14:00-17:30	课程培训3: Z-MISS & CLIF 技术 (丽笙世嘉)
08:30-17:40	课程培训4: 经皮内窥镜手术——Delta减压技术 (喜来登酒店)
13:00-18:00	课程培训5: 经皮内窥镜手术——案例展示 (丽笙世嘉)
14:00-18:00	课程培训6: 经皮内窥镜手术——手术演示 (丽笙世嘉)
6月9日 (周六)	
08:00-08:30	开幕式 (丽笙世嘉)
08:30-18:00	大师讲坛 (中午含卫星会) (丽笙世嘉)
12:00-18:20	卫星会 (丽笙世嘉)
6月10日 (周日)	
08:25-12:00	脊柱内镜技术分会场 (丽笙世嘉)
08:00-11:45	数字化导航技术分会场 (丽笙世嘉)
08:00-12:00	微创融合技术分会场 (丽笙世嘉)

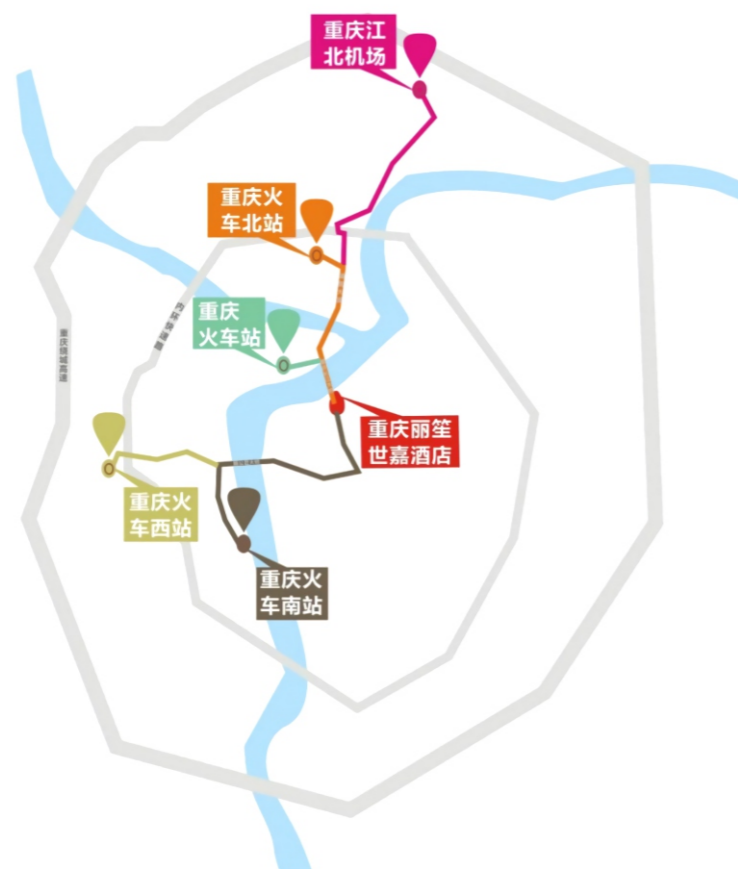
Traffic information of the general assembly



Departure Location	Arrival Location	Distance (Km)	Driving time (min)
Jiangbei Airport	Radisson Blu Plaza	25	40-60
North Railway Station	Radisson Blu Plaza	11	20-30
Chongqing Station	Radisson Blu Plaza	4	10-15
South Railway Station	Radisson Blu Plaza	11	20-30
West Railway Station	Radisson Blu Plaza	18	30-40

Note: We suggest doctors around Chongqing could take public transportations because of limited parking places in hotel. We are appreciated to your understanding and sorry for the inconvenience to you.

大会交通信息



出发地点	到达地点	路程 (KM)	行车时间 (MIN)
重庆江北机场	重庆丽笙世嘉酒店	25	40-60
重庆北站	重庆丽笙世嘉酒店	11	20-30
重庆站	重庆丽笙世嘉酒店	4	10-15
重庆南站	重庆丽笙世嘉酒店	11	20-30
重庆西站	重庆丽笙世嘉酒店	18	30-40

注：因酒店停车位有限，重庆本市及周边医生建议乘坐公共交通或出租车出行，造成不便，敬请谅解。

大会日程

2018年6月8日(周五)

Training Course 1: OLIF Technique

课程1：OLIF技术

Hosted by: Medtronic

技术支持：美敦力公司

Time: 08:00-18:00 Jun. 8

时间：6月8日 08:00-18:00

Venue: Marriott hall A, 3F, Marriott hotel

地点：重庆万豪酒店 3F万豪厅A

08:00-08:02	Welcome speech 欢迎致辞	Hai Li 黎海
08:02-08:05	Opening speech 开幕致辞	Yue Zhou 周跃
Session 1: Walking With OLIF™		
Moderators: Yue Zhou、Xiaojian Ye 主持人：周跃 叶晓健		
08:05-08:15	Lecture-OLIF™ history development 主题演讲-OLIF术式发展历史	Xiaojian Ye 叶晓健
08:15-08:20	Lecture-Medtronic OLIF™ total solution brief 主题演讲-美敦力OLIF全套解决方案简述	Audra B. Watt
Session 2: Why I Need OLIF25™		
Moderators: Yue Zhou、Xiaojian Ye 主持人：周跃 叶晓健		
08:20-08:40	Guest talk-OLIF25™ keynote from designer 特邀演讲-OLIF25™设计者分享	Richard A. Hynes
08:40-09:00	Lecture-My experience on OLIF25™ 主题演讲-个人 OLIF25™经验分享	Shunwu Fan 范顺武

大会日程

09:00-09:10	Ask masters (Q&A) 大师解惑	All 全体
09:10-09:30	Coffee break & Photos 茶歇&集体照	All 全体
Session 3 : When For OLIF25™		
Moderators : Shunwu Fan 、 Jian Wang 主持人：范顺武 王 建		
09:30-09:45	Case sharing-OLIF25™ for degenerative disc disease 病例分享-OLIF25™在退变性椎间盘疾病中的应用	Yuqing Sun 孙宇庆
09:45-09:50	Panel discussion 讨论	Richard A. Hynes、 Xiaojian Ye、 Hongguang Xu Richard A. Hynes、 叶晓健、徐宏光
09:50-10:05	Case sharing-OLIF25™ for adult degenerative scoliosis 病例分享-OLIF25™在成人退变性脊柱侧凸中的应用	Gang Rui 芮 钢
10:05-10:10	Panel discussion 讨论	Richard A. Hynes、 Xiaojian Ye、 Hongguang Xu Richard A. Hynes、 叶晓健、徐宏光
10:10-10:25	Case sharing-OLIF25™ for spinal stenosis 病例分享-OLIF25™在腰椎管狭窄症中的应用	Zhaohui Ge 戈朝晖
10:25-10:30	Panel discussion 讨论	Richard A. Hynes、 Xiaojian Ye、 Hongguang Xu Richard A. Hynes、 叶晓健、徐宏光
10:30-10:45	Case sharing-OLIF25™ for spondylolisthesis 病例分享-OLIF25™在腰椎滑脱症中的应用	Jianceng Zeng 曾建成
10:45-10:50	Panel discussion 讨论	Richard A. Hynes、 Xiaojian Ye、 Hongguang Xu Richard A. Hynes、 叶晓健、徐宏光

大会日程

10:50-11:05	Case sharing-OLIF25™ for revision (adjacent segment degeneration etc.) 病例分享-OLIF25™在翻修手术(邻近节段退变等)中的应用	Wenjian Wu 吴文坚
11:05-11:10	Panel discussion 讨论	Richard A. Hynes、 Xiaojian Ye、 Hongguang Xu Richard A. Hynes、 叶晓健、徐宏光
11:10-11:25	Case sharing-OLIF25™ for other (infection etc.) 病例分享-OLIF25™的其他适应症(感染等)	Fengdong Zhao 赵凤东
11:25-11:30	Panel discussion 讨论	Richard A. Hynes、 Xiaojian Ye、 Hongguang Xu Richard A. Hynes、 叶晓健、徐宏光
11:30-11:40	Conclusion / Q&A 总结 / 答疑	All 全体
11:40-12:40	Lunch 午餐	
Special Session : Step Ahead To OLIF25™		
12:20-12:40	OLIF25™ Instrument Hands-on OLIF25™ Instrument hands-onOLIF25™工具操作	Fengdong Zhao 赵凤东
Session 4 : Win With OLIF25™		
Moderators : Xiaojian Ye 、 Feng Li 主持人：叶晓健 李 锋		
12:40-12:45	Key objective and rundown brief 目标及流程介绍	Medtronic 美敦力
Case Discussion 1 病例讨论 1		
12:45-13:05	Group case discussion-OLIF25™ for spondylolisthesis 小组病例讨论-OLIF25™在腰椎滑脱症中的应用	All 全体

大会日程

13:05-13:20	Group presentations-What's our solution and why? 小组陈述-我们的解决方案及理由	by Groups
13:20-13:30	Panel discussion-agree or disagree, why 讨论-是否同意小组陈述及理由	Jian Wang, Wenjian Wu, Zhong Fang 王 建、吴文坚、 方 忠
13:30-13:50	Insight from masters-my solution, why, tips & tracks , Q&A 大师分享-我的解决方案及理由, 手术技巧分享, 答疑	Richard A. Hynes, Shunwu Fan Richard A. Hynes, 范顺武
Case Discussion 2 病例讨论 2		
13:50-14:10	Group case discussion-OLIF25™ for spinal stenosis 小组病例讨论-OLIF25™在腰椎管狭窄症中的应用	All 全 体
14:10-14:25	Group presentations-What's our solution and why? 小组陈述-我们的解决方案及理由	Groups Presentation 小组陈述
14:25-14:35	Panel discussion-Agree or disagree, why 讨论-是否同意小组陈述及理由	Jian Wang, Wenjian Wu, Zhong Fang 王 建、吴文坚、 方 忠
14:35-14:55	Insight from masters-My solution, why, tips & tracks , Q&A 大师分享-我的解决方案及理由, 手术技巧分享, 答疑	Richard A. Hynes, Shunwu Fan Richard A. Hynes, 范顺武
14:55-15:10	Coffee break 茶歇	All 全 体
Case Discussion 3 病例讨论 3		
15:10-15:30	Group case discussion--OLIF25™ for adult degenerative scoliosis 小组病例讨论-OLIF25™在成人退变性脊柱侧凸中的应用	All 全 体
15:30-15:45	Group presentations-What's our solution and why? 小组陈述-我们的解决方案及理由	Groups Presentation 小组陈述
15:45-15:55	Panel discussion-Agree or disagree, why 讨论-是否同意小组陈述及理由	Chaohui Ge, Gang Rui, Shisheng He 戈朝晖、芮 钢、 贺石生

大会日程

15:55-16:15	Insight from masters-My solution, why, tips & tracks , Q&A 大师分享-我的解决方案及理由, 手术技巧分享, 答疑	Richard A. Hynes, Shunwu Fan Richard A. Hynes, 范顺武
Case Discussion 4 病例讨论 4		
16:15-16:35	Group case discussion--OLIF25™ for revision 小组病例讨论-OLIF25™在翻修中的应用	All 全 体
16:35-16:50	Group presentations-What's our solution and why? 小组陈述-我们的解决方案及理由	Groups Presentation 小组陈述
16:50-17:00	Panel discussion-Agree or disagree, why 讨论-是否同意小组陈述及理由	Zhaohui Ge, Gang Rui, Shisheng He 戈朝晖、芮 钢、 贺石生
17:00-17:20	Insight from masters-My solution, why, tips & tracks , Q&A 大师分享-我的解决方案及理由, 手术技巧分享, 答疑	Richard A. Hynes, Shunwu Fan Richard A. Hynes, 范顺武
17:20-17:30	Closing 总结	
Training Course2: MIS-TLIF Technique 课程2 : MIS-TLIF 技术		
Hosted by : DePuy Synthes Spine 技术支持 : 强生公司		
Time : 14:00-17:00 Jun. 8 时间 : 6月8日 14:00-17:00		
Venue : Yangtze Room 4&5,3F,Radisson Blu Plaza 地点 : 重庆丽笙世嘉酒店, 3F长江4、5会议厅		
14:00-14:30	Introduction to team and overview of Depuy Synthes commitment to MIS and innovation 团队介绍以及强生致力于微创与创新的致辞	
14:30-15:30	Introduction to Depuy Synthes MIS TLIF concepts & demonstration 强生MIS-TLIF理念以及实践介绍	
15:30-16:15	MIS TLIF in China today & Inpatient vs Outpatient 中国现今的MIS-TLIF以及住院患者与门诊患者的对比	

大会日程

16:15-16:45	Discussion of MIS TLIF concept key benefits over current solutions MIS-TLIF理念较传统手术关键获益点的讨论	
16:45-17:00	Warm up and final thoughts 总结与思考	
Training Course 3: Z-MISS & CLIF Techniques 课程培训 3: Z-MISS & CLIF 技术		
Hosted by : Tytus Class 技术支持 : 上海三友公司		
Time : 14:00-17:30 Jun. 8 时间 : 6月8日 14:00-17:30		
Venue : Qu tang gorges,4F ,Radisson Blu Plaza 地点 : 重庆丽笙世嘉酒店 , 4F瞿塘峡会议厅		
14:00-14:10	Opening speech 开幕致辞	Yue Zhou 周 跃
Session 1 : Clinical Application Of Novel Minimally Invasive Fenestrated Pedicle Screw 第一节 新型微创骨水泥螺钉的临床应用		
14:10-14:40	Zita-Design and clinical application of a novel percutaneous fenestrated pedicle screw Zita——新型经皮骨水泥椎弓根螺钉的研发与临床应用	Changqing Li 李长青
14:40-15:10	Application of Zita in treating lumbar degenerative diseases Zita在腰椎退变性疾病治疗中的应用	Jian Wang 王 建
15:10-15:40	Application of percutaneous pedicle screw in spinal infective diseases 经皮椎弓根螺钉系统在脊柱感染性疾病中的应用	Bo Huang 黄 博
15:40-15:50	Q&A 答疑	
15:50-16:00	Coffee break 茶歇	
Session 2 : Clinical Application of Novel Cat-eye Lateral lumbar interbody fusion technique 第二节 新型CLIF猫眼侧方腰椎融合术的临床应用		
16:00-16:45	Cat-eye Lateral lumbar interbody fusion technique Details CLIF猫眼侧方腰椎融合术手术技术详解	Gang Chen 陈 刚

大会日程

16:45-17:15	Clinical application of Cat-eye Lateral lumbar interbody fusion technique CLIF猫眼侧方腰椎融合术的临床应用	Ning Zhang 张 宁
17:15-17:30	Q&A 答疑	
Training Course 4: Percutaneous Endoscopic Surgery--Delta Decompression Technique 课程培训 4 : 经皮内镜技术--Delta通道下减压技术		
Hosted by : Joimax 技术支持 : 上海懋煜医疗器械有限公司		
Time : 08:30-17:40 Jun. 8 时间 : 6月8日 08:00-17:40		
Venue : 3F,Sheraton hotel 地点 : 重庆市南滨路喜来登酒店3F		
Moderators : Changqing Li, Xiaojian Ye, Jixian Qian 主持人 : 李长青 叶晓健 钱济先		
08:30-08:40	Welcome speech 致辞	Yue Zhou 周 跃
08:40-09:00	The target theory and practice of spinal percutaneous endoscopic technique 脊柱经皮内镜技术的靶点理论与实践	Changqing Li 李长青
09:00-09:30	The posterior approach for cervical decompression 颈椎后路减压技术	Ralf Wagner
09:30-11:00	Operation live-Delta for cervical nerve root canal stenosis 手术直播—Delta治疗颈椎神经根管狭窄	Chao Zhang 张 超
11:00-11:20	Application of Delta in cervical surgery 大通道脊柱内镜Delta在颈椎手术中的应用	Wei Zhang 张 为
11:20-11:40	Strategies and methods of pain control in percutaneous endoscopic lumbar discectomy 经皮椎间孔入路内镜手术中疼痛控制的策略和方法	Wenjie Zheng 郑文杰
11:40-12:00	Case report: application of Delta in cervical posterior surgery 病例报告 : Delta在颈椎后路手术中的应用	Fenglong Sun 孙凤龙
12:00-12:20	Case report: Delta for cervical spondylotic radiculopathy 病例报告 : Delta治疗神经根型颈椎病	Haoran Gao 高浩然

大会日程

12:20-12:30	Haoran Gao 讨论	
	Lunch 午餐	
Moderators : Qinguang You、Feng Xu、Ming Li、Feng Zhang 主持人：游勤光 徐峰 李明 张烽		
12:30-13:00	Introduction to Joimax company Joimax公司介绍	Wolfgang Ries
	Introduction to new product from Joimax Joimax新产品介绍	Michael Roberz
13:00-14:30	Operation live- Delta for lumbar stenosis 手术直播—Delta治疗腰椎管狭窄	Yi Jiang 蒋毅
14:30-14:50	Case report: Delta for lumbar stenosis 病例报告：Delta在腰椎狭窄中的应用	Hongjian Wang 王红建
14:50-15:00	Discussion 讨论	
15:00-15:20	The Application of spinal endoscopy in spondylolisthesis 脊柱内镜在滑脱中的应用	Feng Chang 常峰
15:20-15:40	Percutaneous endoscopic technique for intraspinal tumors under local anesthesia 局麻下经皮内镜治疗椎管内肿瘤	Zengxin Gao 高增鑫
15:40-16:10	Interlaminar VS transforaminal approach: indications 椎板间入路和椎间孔入路的适应症选择	Guntram Krzok
16:10-16:30	Delta for ossification of ligamentum flavum in thoracic vertebral Delta治疗胸椎黄韧带骨化	Bolai Chen 陈博来
16:30-16:50	"Better Late Than Never"-Cervical endoscopic technique in reoperation of Anterior Cervical Corpectomy Decompression and Fusion “亡羊补牢”——颈椎内镜技术在ACCF翻修术中的应用	Wenjun Wang 王文军
16:50-17:10	Treatment of lumbar spinal stenosis with variation of nerve root 神经根变异情况的腰椎狭窄治疗	Weili Fan 范伟力
17:10-17:30	Endoscopic technique for old fracture of thoracolumbar spine with kyphosis deformity 胸腰椎陈旧性骨折伴后凸畸形的内镜治疗	Bailian Liu 柳百炼

大会日程

17:30-17:40	Discussion 讨论	
Training Course 5: Percutaneous Endoscopic Surgery——Case Presentations 课程培训：经皮内镜手术-病例汇报		
Hosted by : SPINENDOS 技术支持：SPINENDOS公司		
Time : 13:00-18:00 Jun. 8 时间：6月8日 13:00-18:00		
Venue : Yangtze 1,3F, Radisson Blu Plaza 地点：重庆丽笙世嘉酒店3F长江会议室1		
病例讨论（1、术前病史、体征、术前影像学资料、术中X线透视及视频资料、术后复查影像学资料。2、每个病例展示5分钟、讨论15分钟。） Case Discussion (1. Medical History, Physical Examination, Preoperative imaging, intraoperative imaging, Postoperative Imaging. 2. Case Presentation within 5 min, Discussion within 15 min)		
Lumbar Endoscope 腰椎内镜专题		
Moderators : Limin Rong、Weiguang Hou、Jiancheng Zeng 主持人：戎利民 侯伟光 曾建成		
13:00-13:20	Case 1 病例1	Stafen Helliger
13:20-13:40	Case 2 病例2	Jianmin Chen 陈建民
13:40-14:00	Case 3 病例3	Qun Yang 杨群
14:00-14:20	Case 4 病例4	Jianwen Dong 董健文
14:20-14:40	Case 5 病例5	Yi Ding 丁一
Case Discussion: Peng Huang、Yansong Wang、Zhenyu Wang、Xuhua Xie、Xiangfu Wang、Bo Wang、Nianchun Zhang、Bin Zhang、Jin Yang、Fuming Chu、Peng Xiu、Zhongjie Zhou 讨论嘉宾：黄鹏 王岩松 汪振宇 谢旭华 王想福 王博 张年春 张斌 杨进 楚富明 修鹏 周忠杰		

大会日程

Lumbar Stenosis 椎管狭窄内镜专题

Moderators : Qun Yang, XiSan Wang, Zhi Zhang
主持人：杨群 王锡三 张智

14:40-15:00	Case 1 病例1	Jiancheng Zeng 曾建成
15:00-15:20	Case 2 病例2	Qingquan Kong 孔清泉
15:20-15:40	Case 3 病例3	Yue Li 李越
15:40-16:00	Case 4 病例4	Lei Chu 楚磊

Case Discussion : Gang Rui, Gang Chen, Zhi Zhang, Hao Zhang, Yun Wang, Binhui Chen, Jie Liu, Haiqing Mao, Jianwei Huang, Jun Wu, Wen Wang, Tianhang Xie
讨论嘉宾：芮钢 陈刚 张智 张昊 王云 陈斌辉 刘杰 毛海青 黄建伟 吴俊 王雯 谢天航

Cervical, Thoracic Endoscope 颈、胸内镜专题

Moderators : Gang Rui, Liang Chen, Jianmin Chen
主持人：芮钢 陈亮 陈建民

16:00-16:20	Case 1 病例1	Zhongliang Deng 邓忠良
16:20-16:40	Case 2 病例2	Xiaojian Ye 叶晓健
16:40-17:00	Case 3 病例3	Liang Chen 陈亮
17:00-17:20	Case 4 病例4	Zhenzhou Li 李振宙

Case Discussion: Wenbo Liao, Lei Chu, Xinjian Yang, Jinbo Liu, Yongxin Ren, Yongfeng Wang, Bo Zhang, Ji Wu, Zhengjian Yan, Yu Du, Minpeng Lu, Tao Chen
讨论嘉宾：廖文波 楚磊 杨欣建 刘锦波 任永信 王永峰 张波 吴忌 晏铮剑 杜宇 卢闯鹏 陈韬

Endoscope Fusion 内镜融合专题

大会日程

Moderators : Jianwen Dong, Zhenzhou Li, Lei Chu
主持人：董健文 李振宙 楚磊

17:20-17:40	Case 1 病例1	Jincai Yang 杨晋才
17:40-18:00	Case 2 病例2	Peigen Xie 谢沛根

Case Discussion : Jiancheng Zeng, Qingquan Kong, Cao Yang, Liming Cheng, Yue Li, Liang Chen, Haoyu Feng, Wenyi Li, Tiantong Xu, Liu Da, Haihong Zhang, Rubiao Wang
讨论嘉宾：曾建成 孔清泉 杨操 程黎明 李越 陈亮 冯皓宇 李文毅 徐天同 柳达 张海鸿 王如彪

Training Course 6: Percutaneous Endoscopic Surgery-Surgery Demonstrations 课程培训 6：经皮内镜技术-手术演示

Hosted by : KangHong & RIWOSpine
技术支持 珠海康弘发展有限公司/德国Riwospine公司

Time : 14:00-18:00 Jun. 8
时间：6月8日 14:00-18:00

Venue : Yangtze 6,3F, Radisson Blu Plaza
会议地点：重庆丽笙世嘉酒店3F长江会议室6

14:00-14:30	Registration 会议签到
-------------	----------------------

Master Speech 第一节 大师讲解手术

14:30-18:00	Master lecture 大师讲课
14:30-18:00	Full cervical endoscopic technique 颈椎全内镜技术
14:30-18:00	Full lumbar endoscopic technique via lateral or posterolateral approach 腰椎侧及侧后入路全内镜手术技术
14:30-18:00	Full lumbar endoscopic technique via posterior approach 腰椎后入路全内镜手术技术
14:30-18:00	Full-endoscopic technique for stenosis 腰椎狭窄全内镜手术技术

大会日程

2018年6月9日(周六)

Time : 08:00-18:00 Jun. 9
时间 : 6月9日 08:00-18:00

Venue : Three Gorges Grand Ballroom , 4F , Radisson Blu Plaza
地点 : 重庆丽笙世嘉酒店4F三峡宴会厅

08:00-08:30 Opening ceremony
开幕致辞 Jian Wang

Session 1: Presidents Speech 主席发言

Moderators : Yue Zhou(CHN)、Gun Choi(KOR)、Shaokeh Hsu (CHN)

08:30-08:42 The difference between foraminoplasty and foraminotomy
椎间孔成形术与椎间孔切开术的差异 Anthony T. Yeung (USA)

08:42-08:54 Posterolateral endoscopic thoracic discectomy: transforaminal approach
后外侧入路椎间孔镜下胸椎间盘切除术：经椎间孔入路 Sang-Ho Lee (KOR)

08:54-09:06 The 'Slalom-technique' for minimally invasive decompression of multilevel lumbar spinal stenosis
Slalom技术在多节段腰椎管狭窄症微创治疗中的应用 Michael Mayer (GER)

09:06-09:18 Incorporating endoscopic MIS surgery into academic spine societies and mainstream spine surgery
脊柱内镜微创手术与脊柱外科学会以及脊柱外科主流技术的整合 Jeffrey C. Wang (USA)

09:18-09:30 Video- and navigation-assisted 360°-reconstruction techniques in thoracolumbar trauma
视频及导航辅助下胸腰椎骨折360°重建术 Blatter R. Thomas (GER)

09:30-09:42 ALIF v TLIF
ALIF与TLIF Richard G. Fessler (USA)

09:42-09:52 Q&A
答疑

大会日程

Session 2: Presidents Speech 主席发言

Moderators : Yong Hai(CHN)、Jinsung Luke Kim(KOR)、Shiqing Feng(CHN)

09:52-10:04 OLIF keynote from designer
从设计者角度的基本原则 Richard A. Hynes (USA)

10:04-10:16 Percutaneous endoscopic thoracic decompression(PETD)
经皮内镜下胸椎管减压术 Gun Choi (KOR)

10:16-10:28 Tips and pearls of endoscopic decompression of lumbar spinal canal stenosis
腰椎管狭窄症微创治疗的建议 Akira Dezawa (JPN)

10:28-10:40 A novel expandable titanium kyphoplasty Implant with better height restoration & greater kyphosis correction
新型钛合金内植物在后凸畸形矫正中的运用：更好的高度恢复以及后凸畸形矫正 Shaokeh Hsu (CHN)

10:40-10:52 A novel ZESSYS targeted foraminoplasty tool improves the efficacy and safety of foraminoplasty in PELD
如何在椎间孔成形术中使用新型ZESSYS系统增加手术的效率和安全性 Yue Zhou (CHN)

10:52-11:02 Q&A
答疑

Session 3 : Invited Speech 大会发言

Moderators : Limin Rong(CHN)、Fujio Ito(JPN)、Zhaomin Zheng(CHN)

11:02-11:10 Minimally invasive treatment for lumbar spinal stenosis--Percutaneous endoscopic transforaminal lumbar interbody fusion(PE -TLIF)
腰椎管狭窄症的微创治疗方案——经皮内镜下经椎间孔椎间融合术 Yong Hai (CHN)

11:10-11:18 Short-segment pedicle instrumentation for thoracolumbar fractures with pedicle screws in the injured vertebra
胸腰椎骨折短节段固定——如何在伤椎中置钉 Hani Mhaidli (ESP)

大会日程

11:18-11:26	Lumbar interbody fusion with the EndoLIF® Oblique Cage 腰椎融合术中的EndoLIF 斜形融合器	Ralf Wagner (GER)
11:26-11:34	Percutaneous endoscopic transforaminal lumbar interbody fusion: Is it worth? 经皮内镜下经椎间孔椎间融合术：是否值得？	Frederic Jacquot (FRA)
11:34-11:42	Oblique lumbar interbody fusion for adjacent segment disease OLIF在邻椎病中的治疗运用	Javier Quillo Olvera (MEX)
11:42-11:50	Role and efficacy of circumferential MIS with transpoas lumbar interbody fusion in degenerative scoliosis 经腰大肌入路360°减压在退行性侧弯中的应用	Gun Keorochana (THA)
11:50-12:00	Q&A 答疑	

Satellite Meeting 卫星会

12:00-12:30	Satellite meeting 1	Medtronic
12:30-13:00	Satellite meeting 2	Depuy
13:00-13:30	Satellite meeting 3	Joimax

Session 4 : Invited Speech 大会发言

Moderators : Xiaojian Ye(CHN)、Junseok Bae(KOR)、Jian Wang(CHN)

13:30-13:38	State of the art in MIS 微创手术中的艺术	Jeffrey Roh (USA)
13:38-13:46	Intraoperative navigation and robotics in minimally invasive spine surgery 导航和机器人辅助的微创脊柱外科手术	Hsieh Patrick (USA)
13:46-13:54	US-MRI image fusion with real-time navigation assisted minimal invasive spine surgery 超声-磁共振融合技术联合导航辅助技术在微创脊柱外科手术中的应用	Limin Rong (CHN)

大会日程

13:54-14:02	A report on virtual reality(VR) and augmented reality (AR) based surgical navigation system VR技术和AR技术在术中导航的运用	Chi-Hang Tse (CHN)
14:02-14:10	Minimally invasive C-arm free surgery for adult spinal deformity 无C臂辅助的微创脊柱外科技术在成人侧弯畸形中的运用	Masato Tanaka (JPN)
14:10-14:18	New possibility of MIS TLIF MIS-TLIF的新方法	Jeong-Yoon Park (KOR)
14:18-14:26	The current evidence and limitation of minimally invasive TLIF MIS-TLIF的局限性	Niraj Vasavada (IND)
14:26-14:34	Borderline cases between classical and MISS: why - When? 如何选择微创手术和开放手术	Taric Yazar (TUR)
14:34-14:42	Epiduroscopy in patients with failed back surgery syndrome 硬膜外内镜技术在下腰椎手术失败综合症中的应用	Muhammad Jamil Sabit (PAK)
14:42-14:50	Comparison of surgical invasiveness between microdiscectomy and three different endoscopic discectomy techniques for lumbar disc herniation 微创椎间盘切除术与三种内镜椎间盘切除术的手术创伤比较	Kyung-Chul Choi (KOR)
14:50-15:00	Q&A 答疑	

Session 5: Invited Speech 大会发言

Moderators : Xifeng Zhang(CHN)、Taric Yazar(TUR)、Feng Xu(CHN)

15:00-15:08	Minimally invasive surgical treatment for degenerative thoracic disease 微创外科技术在胸椎退行性疾病中的运用	Jinsung Luke Kim (KOR)
15:08-15:16	Clinical and radiological outcome of full-endoscopic posterior cervical surgery 全内镜下后路颈椎手术的临床疗效以及影像学疗效分析	XiaoJian Ye (CHN)
15:16-15:24	The endoscopic approach to the cervical spine 内镜技术在颈椎手术中的运用	Junseok Bae (KOR)

大会日程

15:24-15:32	Percutaneous stenoscopic decompression for lumbar and cervical stenotic changes 经皮内镜技术在颈椎与腰椎管狭窄症中的区别	Fujio Ito (JPN)
15:32-15:40	Transforaminal endoscopic spinal surgery: "the new gold standard" 经椎间孔内镜手术：一项新的金标准	Menno Ipreburg (NED)
15:40-15:48	Evolution of spinal endoscopic surgery, its technology and clinical application: korean experience 脊柱内镜技术技术与临床运用的发展：韩国经验	Chun-Kun Park (KOR)
15:48-15:56	Transforaminal endoscopic discectomy: the vietnamese experience 经椎间孔内镜下椎间盘切除术：越南经验	Dinh Ngoc Son (VIE)
15:56-16:04	The localization of pain in the lumbar spine 腰椎的疼痛定位	Yong- Jun Jin (KOR)
16:04-16:12	We need to rethink on lumbar canal developmental stenosis 腰椎管狭窄症的重新思考	Satishchandra Gore (IND)
16:12-16:20	Timing in transforaminal endoscopic discectomy 经椎间孔内镜下椎间盘切除术的时机选择	Pradyumna Pai Raiturkar (IND)
16:20-16:30	Q&A 答疑	
Session 6: Invited Speech 大会发言		
Moderators : Jixian Qian(CHN)/ Ralf Wagner(GER)/Bolai Chen(CHN)		
16:30-16:38	Minimally invasive endoscopic bony decompression surgery for lumbar foraminal and central spinal stenosis using endokerrisons and endoscopic highspeed burrs 内镜下枪钳与磨钻在内镜下骨性减压中的运用	Stefan Hellinger (GER)
16:38-16:46	Clinical experiences of percutaneous biportal endoscopic spine surgery 双侧入路经皮内镜技术的临床经验	Jin-Hwa Eum (KOR)
16:46-16:54	Contralateral keyhole endoscopic surgery (CKES) for lumbar spinal stenosis and lumbar disc herniation 对侧锁孔技术在腰椎管狭窄症和腰椎间盘突出症中的运用	Cheul-Woong Park (KOR)

大会日程

16:54-17:02	Interlaminar endoscopic lateral recessdecompression 内镜下经椎板间入路对侧隐窝狭窄症的治疗	Christof Hofstetter (USA)
17:02-17:10	Endoscopic bilateral lumbar decompression of spinal stenosis through uniportal-contralateral approach 内镜下单侧入路双侧减压在腰椎管狭窄症中的运用	Hyeun Sung Kim (KOR)
17:10-17:18	Treatment of lumbar lateral recess stenosis 侧隐窝狭窄症的治疗	Guntram Krzok (GER)
17:18-17:26	The usefulness of percutaneous endoscopic technique in multi-lumbar pathology 内镜手术在多节段腰椎病变中减压的运用	Chul-woo Lee (KOR)
17:26-17:34	Percutanious endoscopic decompression for lumbar spinal stenosis 经皮内镜技术在腰椎管狭窄症中的运用	Chien-Min Chen (CHN)
17:34-17:42	Vascular complication in tubular microscopic disecomy case report with literature review 微创下椎间盘切除术中的血管意外：个案报道及文献回顾	Ghazwan A. Hasan (IRQ)
17:42-17:50	Exiting root injury in transforaminal endoscopic discectomy: preoperative image considerations for safety 经椎间孔内镜下椎间盘切除术中出行根损伤：术前影像学的安全性分析	Il Aden Choi (KOR)
17:50-18:00	Q&A 答疑	
Satellite Meeting 卫星会		
Venue : Yangtze hall 3 ,3F, Radisson Blu Plaza 地点：重庆丽笙世嘉酒店3F长江3号厅		
NASS Session NASS专场		
Controversies in MIS Surgery MIS手术的争议		
14:00-14:05	Lumbar posterolateral disc herniation 旁中央型腰椎间盘突出症	Jeffrey C. Wang
	Debate 讨论	

大会日程

14:05-14:15	Argument for endoscopic foraminal approach 椎间孔入路内镜手术的探讨	Ralf Wagner
14:15-14:25	Argument for endoscopic trans-laminar approach 椎板间入路内镜手术的争议	Christoph Hofstetter
14:25-14:35	Argument for MIS tubular treatment 微创通道下手术的争议	Jeffrey C. Wang
14:35-14:45	Discussion and questions 讨论提问	
14:45-14:50	Case presentation – lumbar degenerative grade I spondylolisthesis 腰椎退变I度滑脱	Jeffrey C. Wang
14:50-15:00	Argument for open TLIF 开放TLIF的争议	Hani Mhaidli
15:00-15:10	Argument for MIS TLIF MIS TLIF的争议	Patrick Hsieh
15:10-15:20	Argument for endoscopic fusion 内镜融合手术的争议	Jin-Sung Kim
JOIMAX Session JOIMAX专场		
15:20-16:20	The clinical application of percutaneous endoscopic spine surgery 脊柱经皮内窥镜技术的临床应用	
Chindex Medical Limited Session 美中互利专场		
16:20-17:20	The application of BodyTom Mobile CT in orthopedics BodyTom移动CT在骨外科手术中的应用	
Xishan Science & Technology Session 西山科技专场		
17:20-18:20	The application of micro-power system in MIS surgery 脊柱微动力系统在脊柱微创领域的应用	

大会日程

2018年6月10日(周日)		
Spinal Endoscopic Technique 脊柱内镜技术分会场		
Venue : Three Gorges Grand Ballroom , 4F , Radisson Blu Plaza 地点 : 重庆丽笙世嘉酒店4F三峡宴会厅		
Time : 08:00-12:00 Jun. 10 时间 : 6月10日 08:00-12:00		
08:25-08:30	Group leader remarks 组长致辞	Changqing Li 李长青
Session 1 : Free Paper “镜”相绽放		
Moderators : Changqing Li、Xifeng Zhang、Zhenzhou Li 主持人 : 李长青 张西峰 李振宙		
08:30-08:36	Comparison of short-term efficacy of 3D microscope and conventional microscope assisted anterior cervical discectomy with fusion 3D显微镜与普通显微镜下微创颈椎前路减压植骨融合内固定术的近期疗效对比分析	Shuai Zhao 赵帅
08:30-08:42	The imaging study of microscope assisted decompression effect in lumbar spinal stenosis 显微镜辅助下腰椎管狭窄症减压效果的影像学研究	Xiaoqing Zheng 郑晓青
08:42-08:48	Clinical effect of Key-Hole for cervical spondylotic radiculopathy Key-Hole 治疗神经根型颈椎病的临床疗效	Zhiqiang Tao 陶志强
08:48-08:54	Comparison of efficacy of posterior percutaneous endoscopic discectomy and nerve root canal decompression on cervical spondylotic radiculopathy 后路经皮脊柱内镜髓核摘除术与单纯神经根管减压术治疗神经根型颈椎病的疗效对比	Feng Feng 冯丰
08:54-09:00	Percutaneous endoscopic bilateral decompression via unilateral approach for the treatment of ligamentum Flavum-Derived cervical spondylosis 经皮内镜单侧入路双侧减压治疗黄韧带肥厚型颈椎管狭窄症	Zhiqiang Jia 贾志强

大会日程

09:00-09:06	Curative effect observation of cervical full-endoscopic on cervical vertebra hyperextension injury without instability 颈椎全内镜治疗无颈椎不稳型颈椎过伸伤的疗效观察	Jiangming Yu 余将明
09:06-09:12	Short-term efficacy of percutaneous endoscopic anterior cervical discectomy 经皮内镜下前路颈椎间盘髓核摘除术近期疗效	Zhijun Nie 聂志军
09:12-09:18	Comparison of percutaneous endoscopic transforaminal discectomy(PETD), microendoscopic discectomy (MED) and microdiscectomy (MD) for symptomatic lumbar disc herniation- more than two years follow-up PETD、MED、MD治疗腰椎间盘突出症的超过2年的随访对比研究	Xinyu Liu 刘新宇
09:18-09:24	Comparison of three minimally invasive spine surgery methods for revision surgery for recurrent herniation after percutaneous endoscopic lumbar discectomy 三种不同微创手术方式对PELD术后复发翻修的临床疗效对比	Yu Tang 汤宇
09:24-09:30	Hybrid operation of endoscopic transforaminal discectomy combined with percutaneous dynamic pedicle screw system for lumbar disc herniation 经椎间孔下髓核摘除与经皮椎弓根动态固定杂交手术治疗腰椎间盘突出症	Yiguo Yan 晏怡果
09:30-09:40	Case Discussion: Han Wu、Baoge Liu、Wei Zhang、Baoshan Xu、Wenjun Wang、Jiawen Guan、Chunlin Zhang、Shisheng He、Qiang Fu、Zhongliang Deng、Xiangyang Liu、Haitao Tan 讨论嘉宾：武汉 刘宝戈 张为 徐宝山 王文军 关家文 张春霖、贺石生 付强 邓忠良 刘向阳 谭海涛	
Session 2: Free Paper "突"飞"镜"进		
Moderators : Ji Xian Qian、Qun Yang、Limin Rong 主持人：钱济先 杨群 戎利民		
09:40-09:46	Clinical effect of modified TESSYS technique of percutaneous endoscopic transforaminal discectomy on lumbar disc herniation 椎间孔镜“改良”TESSYS技术治疗游离型腰椎间盘突出症的临床疗效分析	Hui Leng 冷辉

大会日程

09:46-09:52	The preliminary effect of 21 cases experience of navigation assisted visible foraminoplasty discectomy on lumbar disc herniation under general anesthesia 全麻导航辅助可视化关节突成型法盘切术治疗腰间盘突出症21例的初期体会	Quanzhang Jia 贾全章
09:46-09:58	Decision making of foraminalplasty in percutaneous endoscopic transforaminal discectomy (PETD) PETD中椎间孔成形的决定	Fangyong Wang 王方永
09:58-10:04	Percutaneous Endoscopic Lumbar Discectomy for the treatment of Axillary Lumbar Disc Herniation PELD治疗“腋下型”腰椎间盘突出症	Honggang Wang 王洪岗
10:04-10:10	The clinical application of spinal endoscopic on thoracolumbar disc herniation 脊柱内镜下治疗胸腰段椎间盘突出的临床应用	Heng Yuan 袁恒
10:10-10:16	The preliminary study of removal volume in percutaneous endoscopic lumbar discectomy 椎间孔镜术中间盘摘除量的初步探讨	Quan Qi 祁全
10:16-10:22	The effect study of foraminoplasty in TESSYS technique TESSYS技术椎间孔成形术的椎间孔成形效果研究	Chengpei Zhou 周程沛
10:22-10:28	The study of nerve root variation in percutaneous endoscopic lumbar discectomy on lumbar disc herniation 关于经皮椎间孔镜治疗腰椎间盘突出症术中神经根变异的探讨	Yu Zhang 张宇
10:28-10:34	6 failed cases of first time percutaneous endoscopic lumbar discectomy 椎间孔镜下腰椎间盘切除I期手术失败6例病例分析	Pei Du 杜培
10:34-10:40	Early clinical experience of annulus fibrosus repair after lumbar discectomy 腰椎间盘突出髓核摘除及纤维环修复技术的早期临床体会	Siguo Sun 孙嗣国
10:40-10:50	Case Discussion: Wenbo Wang、Wenjie Zheng、Jincai Yang、Heping Yin、Peng Huang、Yingjie Zhou、Huimin Zhu、Chunhai Li、Yuanming Chen、Mansheng Duan、Lin Liu、Jinhan Lv 讨论嘉宾：王文波 郑文杰 杨晋才 银和平 黄鹏 周英杰 朱卉敏 李春海 陈远明 段满生 刘林 吕金悍	

大会日程

Session 3: Free Paper “狭” “镜” 相逢

Moderators : Xiaojian Ye、Zhenzhou Li、Feng Xu
主持人：叶晓健 李振宙 徐峰

10:50-10:56	The effect study of transforaminal endoscopic via lateral approach on adolescent vertebral body posterior bony edges separation 椎间孔镜侧方入路治疗青少年椎体后缘离断症的疗效分析	Lijun Li 李利军
10:56-11:02	The effect study of percutaneous endoscopic via different approaches on lumbar spinal stenosis 经皮内镜不同入路治疗腰椎管狭窄症疗效分析	Wei Jiao 焦伟
11:02-11:08	We aim to please,you aim too,please 脊柱性疼痛我们可以做的更多	Dajiang Ren 任大江
11:08-11:14	Spinal endoscopic double-cannulas foraminoplasty in treating with double-segments lumbar spinal stenosis 脊柱内镜双通道椎间孔成形治疗双节段腰椎管狭窄症	Xinghua Song 宋兴华
11:14-11:20	The MRI imaging study of cross sectional area of dural sac pre- and post-operative via full-endoscopic technique on lumbar spinal stenosis 全内镜技术治疗腰椎管狭窄症手术前后硬膜囊横截面积的核磁共振影像学分析	Rujun Zuo 左如俊
11:20-11:26	The coping strategy on failed spinal endoscopic surgery via posterior approach in treating with I4-5 spinal stenosis 脊柱内镜后路处理腰4-5椎管狭窄失败的应对策略	Panfeng Yu 虞攀峰
11:26-11:32	The value study of minimally invasive surgery via posterior interlaminar approach on intervertebral infection after lumbar operation 后路椎板间入路微创治疗腰椎术后椎间隙感染的价值研究	Hao Duan 段豪
11:32-11:38	Minimally invasive transforaminal endoscopic treated neurologic deficit after percutaneous kyphoplasty 微创椎间孔镜治疗经皮椎体成形术后的神经障碍	Tianlong Wu 吴添龙
11:38-11:44	Transforaminal endoscopic surgery under local anesthesia: how to avoid pain with lidocaine only 局麻下经皮椎间孔镜手术--单用利多卡因如何做到术中无痛	Haiming Yu 俞海明

大会日程

11:44-11:50	The application study of enhanced recovery after surgery on spinal endoscopic surgery 加速康复外科在脊柱内镜手术中的应用研究	Zhi Zhang 张智
-------------	--	-----------------

11:50-12:00	Case Discussion:Yi Jiang、Ming Yan、Keyi Yu、Feng Chang、Bolai Chen、Feng Zhang、Zhibin Meng、Zhong Zheng、Gang Rui、Jiancheng Zeng、Zhengxu Ye、Chenhui Shi、Bailian Liu 讨论嘉宾：蒋毅 闫明 余可谊 常峰 陈博来 张烽 孟志斌、郑忠 芮刚 曾建成 叶正旭 史晨辉 柳百炼	
-------------	---	--

Digital and Intelligent Minimally Invasive Technique 数字化导航技术分会场

Venue : Three Gorges Grand Ballroom,4F,Radisson Blu Plaza
地点：重庆丽笙世嘉酒店4F三峡宴会厅

Session 1 : Navigation System & Endoscope 第一节 导航与内镜

Moderators : Zhibin Meng、Feng Xu、Feizhou Lv
主持人：孟志斌 徐峰 吕飞舟

08:00-08:05	Navigation-guided endoscopic translaminar approach for the treatment of spinal stenosis 导航辅助脊柱内镜下经椎板入路在椎管狭窄中的应用	Hongzhen Jiang 姜红振
08:05-08:10	Preliminary application of image-based navigation-guided percutaneous puncture and intervertebral foraminoplasty in PELD 影像导航辅助下PELD术中经皮穿刺和椎间孔成形的初步应用	Wenjie Zheng 郑文杰
08:10-08:15	Full-endoscopic posterior cervical foraminotomy for cervical spondylotic radiculopathy assisted by O-arm-based navigation O型臂导航引导下后路颈椎全内镜下椎间孔成型术治疗神经根型颈椎病	Chao Zhang 张超
08:15-08:20	Type-B ultrasonography-based navigation system 脊柱B超导航	Qiang Fu 付强
08:20-08:25	Feasibility of virtual reality combined with isocentric navigation in percutaneous transforaminal endoscopic discectomy: a cadaver study 虚拟现实结合同心圆导航系统在经皮椎间孔镜下椎间盘切除术中的可行性研究	Shisheng He 贺石生

大会日程

08:25-08:30	Mixed reality assisted instruction in teaching percutaneous transforaminal lumbar discectomy 混合现实技术在经皮椎间孔入路腰椎间盘突出术辅助教学中的探索	Keyi Yu 余可谊
08:30-08:35	Development and application of virtual reality based preoperative planning system for percutaneous transforaminal endoscopic discectomy 基于虚拟现实技术的椎间孔镜术前规划系统研制及应用	Chunhai Li 李春海
08:35-08:40	The effect of computer aided navigation guided PELD for treating lumbar disc herniation 计算机辅助导航技术结合PELD技术治疗腰椎间盘突出症的疗效观察	Haoran Gao 高浩然
08:40-08:45	Application of computer navigation system in PELD 计算机导航在椎间孔镜手术中的应用	Zhaolin Xie 谢兆林
08:45-08:50	Clinical application of preoperative 3D image-aided navigator in PELD 术前三维图像辅助导航器在椎间孔镜下椎间盘切除术中的临床应用	Jian Li 李健
08:50-08:55	Artificial intelligence based ultrasound guided automatic identification of puncture plane in PELD 基于人工智能的椎间孔镜超声引导下穿刺平面的自动识别	Guoxin Fan 范国鑫
08:55-09:00	Application of 3D-printed guiding template in PELD 3D打印导向模板在PELD手术中的应用研究	Hongwei Wang 王洪伟
09:00-09:05	CT 3-dimensional reconstruction-PELD for treating far lateral lumbar disc herniation CT三维重建-经皮脊柱内镜手术治疗极外侧腰椎间盘突出症探讨	Jun Yang 杨俊
09:05-09:10	Feasibility and safety study : ultrasound fusion imaging with real-time navigation for percutaneous endoscopic lumbar discectomy 超声图像融合联合实时导航引导下的经皮椎间孔镜下椎间盘切除术的可行性和安全性研究	Peigen Xie 谢沛根
09:10-09:20	Discussion & Coffee break 讨论与茶歇	

大会日程

	Case Discussion: Baoge Liu, Yajun Liu, Bolai Chen, Wenzhi Zhang, Zezhang Zhu, Feng Zhang, Xigao Cheng, Gang Chen, Bin Lin, Gang Rui, Quanhai Fan, Jiancheng Zeng, Xuexiao Ma, Lei Zang, Guangzhi Ning 讨论嘉宾: 刘宝戈 刘亚军 陈博来 张文志 朱泽章 张烽 程细高 陈刚 林斌 芮刚 范海泉 曾建成 马学晓 臧磊 宁广智	
09:20-10:00	The inauguration ceremony of digital navigation group of minimally invasive spinal surgery special committee of Chinese Association of Orthopaedic Surgeons 中国医师协会骨科分会脊柱微创专委会数字化导航学组成立仪式	
Session 2 : Navigation & Instrumentation 第二节 导航与内固定		
Moderators : Xiaojian Ye, Haitao Tan, Bin Zhao 主持人: 叶晓健 谭海涛 赵斌		
10:00-10:05	Application value of navigation system in sacroiliac fixation 导航在骶髂关节固定术中的应用价值	Huajiang Chen 陈华江
10:05-10:10	Accuracy analysis of O-arm-based navigation in pedicle screw placement O-arm机导航下椎弓根螺钉置入准确性原因分析	Bin Meng 孟斌
10:10-10:15	Effect of navigation system combined with 3D printing in spine deformity surgery 手术导航系统联合3D打印技术在脊柱畸形手术中的疗效分析	Dawei Wang 王大为
10:15-10:20	Application of a novel customized guide template in percutaneous pedicle screw placement: an in vitro study 新型定制导板在经皮椎弓根螺钉置入中应用的体外研究	Suhua Wu 伍苏华
10:20-10:25	Effect of percutaneous digital pedicle screw combined with microscope and tubular retractor system for minimally invasive treatment of thoracolumbar fracture with spinal cord injury 经皮数字化椎弓根螺钉联合显微镜通道下减压微创治疗胸腰椎骨折伴脊髓损伤的疗效分析	Lei Kong 孔雷
10:25-10:30	Effect of computer-aided navigation system in MIS-TLIF for treating lumbar degenerative diseases 计算机辅助导航技术结合MIS-TLIF技术治疗腰椎退行性疾病的疗效观察	Jixian Qian 钱济先

大会日程

10:30-10:35	Application of improved navigation technology in minimally invasive spinal surgery 改良导航技术在微创脊柱外科中的应用体会	Quanzhang Jia 贾全章
10:35-10:40	Preoperative computer tomography 3D reconstruction combined with intra-operative anteroposterior and lateral fluoroscopy guided versus navigation-guided percutaneous pedicle screw placement in treating thoracolumbar fractures: an accuracy analysis 术前三维CT设计+术中绝对正侧位透视辅助下经皮椎弓根置钉与术中导航辅助下经皮椎弓根置钉在胸腰椎骨折中的准确性比较	Wei Duan 段 伟
10:40-10:45	Effect of computer aided navigation for the treatment of lumbar tuberculosis via extreme lateral approach 计算机导航在极外侧入路手术治疗腰椎结核的应用疗效	Haitao Tan 谭海涛
10:45-10:50	Application of 3D imaging technique in upper cervical tumor surgery 三维成像技术在上颈椎肿瘤手术中的应用	Yongjun Chen 陈雍君
10:50-11:00	Discussion 讨论	
Case Discussion: Miao Yu, Jianwen Dong, Lei Zang, Xiaosheng Ma, Leisheng Jiang, Xingkai Zhang, Ning Xie, Yunbing Chang, Junjie Xu, Zibin Yang, Hongxun Sang, Binsheng Yu, Yifei Huang 讨论嘉宾：于 淼、董健文、臧 磊、马晓生、蒋雷生、张兴凯、谢 宁、昌耘冰、许俊杰、杨子斌、桑宏勋、于滨生、黄异飞		
Session 3 : Application of Digital Technique 第三节 数字化技术应用		
Moderators : Jixian Qian, Chao Zhang, Keya Mao 主持人：钱济先 张 超 毛克亚		
11:00-11:05	Application of digital orthopedics in lumbar diseases 数字骨科在腰椎疾病中的应用进展	Rui Ding 丁 睿
11:05-11:10	A Remote-controlled robot for physical examination 介绍一种远程操控智能体检辅助机器人	Chunlin Zhang 张春霖
11:10-11:15	A study of the relationship between exiting nerve root and superior articular process in lumbar vertebrae using spiral computed tomography 利用螺旋CT研究腰椎出口神经根与上关节突位置关系	Liming Zhang 张黎明

大会日程

11:15-11:20	A comparative study of simulative optimized manipulative reduction combined with PVP and PKP in the treatment of osteoporotic thoracolumbar fractures 仿真优化手法复位结合PVP与PKP治疗骨质疏松性胸腰椎骨折对比研究	Yingjie Zhou 周英杰
11:20-11:25	Application of digital technique in individualized injecting volume of bone cement in pvp 数字技术在经皮椎体成形术(pvp)个体化注入骨水泥的量的应用研究	Wu Wei 韦 武
11:25-11:30	Application of digital technique in accurately positioning puncture in percutaneous kyphoplasty 探究数字化辅助技术在经皮椎体后凸成形术中精确定位穿刺的临床应用	Jihui Zhang 张吉辉
11:30-11:35	CT positioning technique and minimally invasive spine surgery CT定位技术与脊柱微创手术	Jiawen Guan 关家文
11:35-11:40	Application of individualized 3D-printed guide template in upper cervical pedicle screw placement 个体化3D打印导向模板辅助上颈椎椎弓根螺钉置入的临床应用	Guoqi Niu 牛国旗
11:40-11:45	Application of navigation-guided unilateral percutaneous kyphoplasty in vertebroplasty 计算机导航辅助下单侧穿刺椎体后凸成形术在椎体成形中的应用	Qinyi Liu 刘钦毅
11:45-12:00	Discussion 讨 论	
Case Discussion: Siguo Sun, Jinghui Huang, Bing Wang, Zhong Fang, Huimin Zhu, Chunlin Zhang, Zhenghong Yu, Bin Zhao, Haiquan Fan, Xiaohong Fan, Jianwu Zhao, Shaokun Zhang, Fenglong Sun 讨论嘉宾：孙嗣国 黄景辉 王 冰 方 忠 朱卉敏 张春霖 余正红 赵 斌 范海泉 樊效鸿 赵建武 张绍昆 孙凤龙		

大会日程

Minimally Invasive Fusion Technique

微创融合技术分会场

Venue : Three Gorges Grand Ballroom , 4F , Radisson blu plaza

地点 : 重庆丽笙世嘉酒店4F三峡宴会厅

08:00-08:30 The foundation ceremony of minimally invasive fusion group
中国医师协会骨科医师分会脊柱微创专业委员会微创融合学组成立仪式

Session 1 第一节

Moderators : Shunwu Fan、Jixian Qian、Cao Yang

主持人 : 范顺武 钱济先 杨操

08:30-08:38 Effect of XLIF for lumber sequence
极外侧入路腰椎间融合术对腰椎序列的影响 Zenghui Wu
吴增晖

08:38-08:46 Perioperative complications associated with minimally
invasive surgery oblique lumbar interbody fusion
for degenerative lumbar diseases in 113 patients
OLIF治疗113例腰椎退变性疾病术中相关并发症 Jian Wang
王建

08:46-08:54 Application of OLIF and lateral approach : five-year
follow-up from a single-center
一个单中心OLIF及侧路技术应用的5年随访研究 Xiaojian Ye
叶晓健

08:54-09:02 Stand-alone mini-Open anterior retroperitoneal
lumbar interbody fusion for the treatment of
symptomatic adjacent-segment degeneration after
lumbar fusion: a minimum of 2-years follow-up
独立前路小切口开放腹膜后腰椎融合术治疗有症状的腰椎
融合术后邻近节段退变——2年以上随访研究 Bing Wang
王冰

09:02-09:10 CLIF for degenerative scoliosis—— A preliminary
effect observation
微创侧方入路腰椎融合术 (CLIF) 治疗退变性脊柱侧凸初步
疗效观察 Huimin Zhu
朱卉敏

09:10-09:18 Endoscopic-assisted OLIF for direct decompression :
Indication and technical key points
脊柱内镜辅助OLIF直接减压 : 适应症和技术要点 Haiming Yu
俞海明

09:18-09:26 Image study of surgical approach for OLIF
微创斜向腰椎椎体间融合术手术入路的影像学相关研究 Xiaoqing Zheng
郑晓青

大会日程

09:26-09:34 Neuroimaging study of lateral surgical approach for
the treatment of L4/5 lumbar degenerative diseases
腰4/5椎间盘退行性疾病极外侧入路手术的神经影像学研究 Hongwei Yi
易伟宏

09:34-09:42 The analysis of Operative complications of OLIF
斜向腰椎椎间融合手术并发症分析 Keya Mao
毛克亚

09:42-09:50 Failure cases of XLIF supplemented with lateral fixation:
why it happen and revision strategy
XLIF联合侧方固定手术失败病例 : 为何发生及翻修策略 Jianwen Dong
董健文

09:50-10:00 Coffee break
茶歇

Session 2 第二节

Moderators : Jian Wang、Keya Mao、Changtai Sun

主持人 : 王建 毛克亚 孙常太

10:00-10:08 Therapeutic evaluation of ALIF with self-stabilized
cage to treat degenerative lumbar disorders:
Five-Year Follow-Up
ALIF联合自稳性融合器治疗腰椎退变性疾病疗效评估-5年随
访结果 Dadi Jin
金大地

10:08-10:16 Percutaneous pedicle screw reduction and axial lumb-
ar interbody fusion for lumbosacral spondylolisthesis
经皮椎弓根螺钉复位联合轴向腰椎间融合术治疗腰骶椎滑脱症 Wenjun Wang
王文军

10:16-10:24 MED-MISSTLIF for degenerative spondylolisthesis-
experience from 600 cases
MED-MISSTLIF治疗退变性腰椎滑脱症600例经验 Heping Yin
银和平

10:24-10:32 Analysis of technique application and patient selec-
tion of three types of lumbar spinal stenosis treated
by MIS-TLIF with bilateral decompression via
unilateral approach
通道下单侧入路双侧减压MIS-TLIF手术治疗三种类型腰椎
管狭窄症病例选择与技术应用分析 Han Wu
武汉

10:32-10:40 Clinical research of a new internal fixation method:
decompression via Zista with cage and spinous
process internal fixation for lumbar spinal stenosis
一种新的内固定方法 : Zista微创通道下减压CAGE+棘突
间内固定治疗段腰椎管狭窄症的临床研究 Qun Yang
杨群

大会日程

10:40-10:48	Minimally invasive microscope-assisted transforaminal interbody fusion with bilateral decompression via unilateral approach through Zista : short-term clinical outcomes 显微镜辅助下经Zista通道单侧入路双侧减压融合治疗腰椎管狭窄症的优势及疗效的研究	Lantao Liu 刘兰涛
10:48-10:56	Microscope-assisted or dilated tube-assisted minimally invasive transforaminal interbody fusion for lumbar degenerative diseases: a comparative study 显微内镜辅助与可扩张通道辅助MISTLIF技术治疗腰椎退行性疾病对比研究	Haoran Gao 高浩然
10:56-11:04	Influence of intraoperative rod contouring on sagittal parameters and clinical outcomes in single segment MIS-TLIF 单节段MIS-TLIF术中连接棒外形调节对矢状位参数和临床疗效的影响	Yiwei Zhao 赵钊伟
11:04-11:12	Clinical application of bilateral decompression via unilateral approach through disposable dilated tube-assisted for degenerative lumbar spinal stenosis 一次性可扩张通道下单侧入路双侧减压在治疗退变性腰椎管狭窄症的临床应用	Lei Yang 杨磊
11:12-11:20	Multifidus injury from PE-TLIF and open PLIF : a comparative study PE-TLIF与开放PLIF术式对多裂肌损伤的对比评价研究	Jincai Yang 杨晋才
11:20-11:28	Clinical application of visualizable endoscopic-assisted Endo-LIF with TLFS : a preliminary discussion. 可视脊柱内镜辅助下腰椎椎间融合技术 (Endo-LIF) 结合椎板关节突螺钉固定 (TLFS) 的临床应用初步探讨	Mao Shen 沈茂
11:28-11:36	Clinical observation of MIS-TLIF with DIKA cage for single segment central lumbar spinal stenosis MIS-TLIF结合笛卡融合器治疗单节段中央型腰椎管狭窄症的临床观察	Hua Guo 郭华
11:36-11:44	The clinical outcomes and postoperative fusion rate between TLIF with CBT and TLIF with conventional pedicle screw placement TLIF联合CBT和传统椎弓根螺钉的临床疗效及融合率对比研究	Xiaoping Zhang 张小平
11:44-11:52	Risk factors analysis of contralateral neurologic symptoms after endoscopic-assisted MIS-TLIF 内窥镜辅助下微创经椎间孔椎体间融合术后对侧神经症状危险因素分析	Yang Yang 杨阳

大会日程

11:52-12:00	Minimally invasive transforaminal lumbar interbody fusion using bone cement-augmented pedicle screws for spondylolisthesis in patients with osteoporosis 新型经皮骨水泥螺钉系统应用于腰椎微创融合术对合并严重骨质疏松症的腰椎滑脱症患者的手术治疗	Chao Liu 刘超
-------------	--	----------------

As a global leader in medical technology, services and solutions, Medtronic improves the health and lives of millions of people each year. We believe our deep clinical, therapeutic and economic expertise can help address the complex challenges—such as rising costs, aging populations and the burden of chronic disease—faced by families and healthcare systems today. But, we can't do it alone. That's why we're committed to partnering in new ways and developing powerful solutions that deliver better patient outcomes.

Founded in 1949 as a medical repair company, we're now among the world's largest medical technology, services and solutions companies, employing more than 85,000 people worldwide, serving physicians, hospitals and patients in more than 160 countries.

Join us in our commitment to take healthcare Further, Together

美敦力是全球医疗技术、服务和解决方案的领导者，每年改善千百万人的生命和健康。我们相信，我们在临床、疗法和成本效益方面的深厚专业知识，可帮助解决当今家庭和医疗系统所面临的复杂挑战，如不断上升的成本、人口日益老龄化和慢性病带来的沉重负担。但是，仅凭我们还不够。因此，我们致力于各种新型合作，开发更好地改善患者疗效的解决方案。

美敦力成立于1949年，起初只是一家医疗器械修理公司，如今已跻身全球最大的医疗技术、服务和解决方案公司之列。美敦力在全球拥有85,000多名员工，致力于为160多个国家和地区的医生、医院和患者提供服务。让我们携手推动医疗事业的发展。Further, Together.

Shanghai Maoyu Medical Equipment Co.,Ltd. is the sole distributor of joimax products in China. We have been engaging in the promotion of MISS technique in China since 2006. Through continuous academic activities, technique training and international communication, the TESSYS technique has been widely used in China with a growth of thousands of surgeries every year. Thanks to all the experts who have innovated and improved this technique, more and more Chinese doctors have mastered this technique to benefit patients.

The joimax GmbH is committed to the research and academic promotion of spinal endoscopic technique. The new and revolutionary endoscopic products help the doctors treat all kinds of intervertebral disc herniation and bony stenosis by "Keyhole" technique. With the support of expert teams in domestic faculty hospitals and joimax GmbH, our company will and as always provides an academic communication platform in the forms of model operation, cadaver workshop and surgery visitation etc. to promote the development of MISS technique in China.

上海懋煜医疗器械有限公司是德国joimax椎间孔镜系列产品的中国总代理商。自2006年以来，专注于椎间孔镜技术在中国的推广。通过持续不断的学术活动、技术培训及国际交流，TESSYS技术在中国每年以数千例手术量增长。感谢各位专家对椎间孔镜技术的不断创新和完善，越来越多的中国骨科大夫已经熟练掌握此技术，造福于广大病患。

德国joimax公司致力于脊柱内窥镜技术的研究与学术推广。全新的、革命性的脊柱内窥镜系列产品帮助医生以“锁孔”技术治疗所有类型椎间盘突出及骨性狭窄。我公司在国内知名教学医院的专家团队和德国joimax公司的支持下，以模型操作、尸体训练、手术观摩等灵活多样的方式，一如既往地提供学术交流平台，促进椎间孔镜技术在中国不断发展。

Johnson & Johnson Medical Devices Shanghai offers a broad range of innovative products used primarily by healthcare professionals in the fields of orthopaedics (e.g. joint reconstruction, trauma, spine, sports medicine, crania maxillofacial, and power tools), minimally invasive and open surgery (e.g. wound closure, surgical staplers, ultrasonic devices, synthetic mesh devices and absorbable hemostats), electrophysiology (e.g. -catheter based technology), diabetes Care (e.g. blood glucose monitors), aesthetics (e.g. breast implants) and infection prevention(e.g. Sterilization System).

强生公司是最具综合性、业务分布范围最广的健康护理产品制造商和服务商，为消费品、制药以及医疗器材和诊断产品的市场提供全面的产品和服务。强生（上海）医疗器材有限公司医疗器材主要提供给医疗专业人士一系列涉及领域广泛的创新产品，用于骨科（如关节重建、创伤、脊柱、运动药品、颌面以及动力工具），微创及开放性手术（如伤口缝合、吻合器、超声刀、合成疝气修补以及可吸收止血纱），电生理学（如：导管及其相关技术）、糖尿病护理（如：血糖仪），美容整形（如：乳房假体）以及感染预防（如：过氧化氢等离子低温灭菌系列）



Chindex Medical Limited (CML) is a leading provider of medical equipment. With over 1500 employees worldwide and headquarters located in China, the Company's strategy is to leverage its cross-cultural expertise to provide leading edge healthcare technologies and quality products to healthcare markets globally. CML offers a manufacturing platform for select medical technologies and a unique full-service distribution platform for both Western and Chinese manufacturers of medical devices. CML's expertise includes the full range of services from product registration to marketing and sales – both direct and through a closely-managed network of carefully-selected sub dealers – warehousing and sales in local currency, clinical support, installation and after-sales service provided by factory-trained engineers. CML's manufacturing platforms include several patented technologies, including proprietary energy based aesthetic devices, blood banking and transfusion equipment, wound closure products, and general surgery theater instruments. The R&D and manufacturing processes utilized globally are at market leading, international levels. CML's manufactured products are sold in more than 70 countries in Asia, Europe and the Americas.

CML's distribution services in China are focused in core areas of Aesthetics, Imaging, Surgery, Dermatology, Oncology and Dental, with strategic expansion into new sectors planned in the near term. CML currently provides exclusive distribution services to Intuitive Surgical for the da Vinci family of robotic surgical systems, MAKO Surgical for its RIO® Robotic Interactive Arm Orthopedic System, Neurologica's CereTom and Body Tom CT scanners, Galil medical's cryotherapy Systems, Xoft interoperative radiotherapy equipment, Sensus Healthcare's keloid treatment systems, and dental appliances, implants and accessories manufactured by BEGO, Vertex Dental, DMG, Hu-Friedy, and Ultradent.

美中互利医疗有限公司作为复星医药医疗器械事业部的重要成员企业之一，一直致力于中国医疗器械的发展。作为一家领先的医疗设备供应商，全球范围拥有雇员超过1500名。

公司致力于为全球医疗健康领域提供尖端的医疗技术和高质量产品及服务，在中国的分销业务集中在外科、影像、皮肤科、肿瘤、牙科、呼吸科等核心领域，并计划将业务战略扩展到新的临床领域。

目前，公司独家代理多家大型跨国公司的产品，专业优势涵盖了从产品注册、市场营销、销售（包括直销及通过精心挑选的代理商团队）到仓储，以及人民币结算的销售，临床应用支持，以及经由厂家培训的工程师提供的专业产品安装及售后服务。



Today Carl Zeiss Meditec AG is one of the world's leading suppliers of complete system solutions in the field of medical technology for ophthalmology. For more than 100 years our activities have been focused on maintaining and improving people's eyesight. Zeiss Meditec technology supplies doctors all over the world with intelligent tools for efficiently and effectively treating the four main surgical syndromes – from diagnosis to surgery and follow-up treatment.

卡尔·蔡司(Carl Zeiss)是世界著名的精密光学制造商，其注册商标为“蔡司”和“Zeiss”。创建170多年来，蔡司公司本着“与科学、技术和工业界保持密切接触”的精神，不断向全球推出最新设计高精度的精密仪器，一直倍受世界各地专业人士推崇。卡尔·蔡司生产的医疗器械拥有尖端产品应具备所有的优点，为外科医生提供范围广泛的产品。使用卡尔·蔡司的先进技术作为您专业技能的理想辅助工具，提高您的知名度，真正在竞争中胜出一筹。



Shanghai Sanyou Medical Co., Ltd is an orthopedic company leading in therapy innovation and R&D. Founded in 2010, the company focused on innovation, process management and customer-orientation. In October 2011, the company established a world-class R&D Labs named Tytus Labs with an international prestige R&D team, advanced R&D equipment and professional product development and project management system. Growing steadily and rapidly, Shanghai Sanyou Medical has become a national top orthopedic company with dedicated and specialized talent, advanced and reliable product, shared service and information logistics system, value-oriented culture and customer-centered approach. Shanghai Sanyou Medical has hundreds of spinal and trauma product line with thousands of specifications. The sales channel extends and covers the whole nation.

上海三友医疗器械有限公司是一家以疗法创新为宗旨，致力于自主创新研发的骨科内植入物研发、生产和销售的企业，总部坐落于上海张江高科技园区医疗器械园。一支资深的国际化管理团队于2010年9月对公司完成了重组并建立了全新的管理机制，目标是成为一个有价值的、可持续发展的企业。2011年10月，上海三友医疗器械有限公司建成了具有国际一流水平的拓腾实验室并完善了国际化的研发团队。公司目前已设立了健全的产品研发体系，拥有国际先进的研发装备和项目管理系统，确保产品的先进、有效和可靠。上海三友汇集国内外业内资深人才，组建了经验丰富的专业生产管理和营销团队。公司同时还搭建了一个网络化、信息共享化，并具有延伸和渗透作用的物流仓储系统。目前，公司经营拓腾和三友品牌的脊柱和创伤内植入物产品共计百余种品种，千余个规格，经销渠道遍布全国各省市。

Whale Medical, Established by China and US top medical scientists, has two R&D and production center at Beijing and Boston. We focus on surgical image device combining advanced image technology and surgical procedure together to make surgeon's work safer, faster and easier. We have developed a range of G-arm fluoroscopy devices which use our unique patented Cross Beam technology to achieve real time AP and LP views simultaneously. Our aim is to be the leader in producing affordable world-class medical imaging systems to our global customers by leveraging our proven proprietary disruptive technology, management expertise and low cost manufacturing capabilities in China.

惠尔医疗，由业界顶尖科学家创办，研发总部位于美国波士顿，以美国MIT（麻省理工学院）和Harvard Medical School（哈佛大学医学院）为依托，专注于世界最先进医学影像技术，不断为全球提供最前沿的医学影像产品与服务。G型臂的CROSS BEAM技术实现了正侧位实时动态成像，不仅大大缩短了手术时间，而且显著降低了辐射剂量和交叉感染率，给外科手术带来一场全新革命。惠尔医疗，始终秉持创新性，人性化，绿色环保的研发创新理念，与临床紧密结合，全心致力于新产品与新技术的研发，产品品质与用户体验的提升，打造更完美的高科技影像产品，为全人类的生命健康作出贡献。

Beijing Natong Technology Group

Founded in 1996, Naton Technology Group is a medical industry group integrating independent innovation and R&D, industrial production, large-scale marketing and high-quality medical service applications. Naton has more than 100 subsidiary companies and offices at home and abroad. It consists of 18 manufacturing companies and 9 national high-tech companies. It has more than 3,300 employees. In the past 10 years, Naton's compound revenue growth rate was 27%, and it has established trade cooperation relationships in more than 130 countries and regions around the world. Naton attaches importance to R&D and has 421 patents; its R&D headquarters is located in Beijing, and it also has 4 branch R&D centers. In 2014, Naton invested in the medical device segment of Sinopharm Group, and together with Sinopharm to create a national medical device supply platform.

纳通科技集团创立于1996年，是一家集自主创新研发、产业化生产、规模化营销及优质医疗服务应用为一体的医疗健康产业集团。纳通在海内外拥有一百余家公司、办事处，旗下包含18家生产企业、9家国家高新技术企业；现有员工3300余人。近10年来，纳通营业收入复合增长率为27%，在全球130多个国家和地区建立了贸易合作关系。纳通重视研发创新，拥有专利421项；研发总部设在北京，另外设有4所研发分中心。2014年，纳通投资国药集团医疗器械板块，携手国药共同打造面向全国的医疗器械供应平台。

Xishan is founded in Dec.1999. As a national high-tech enterprise, we specialize in R&D, manufacturing and sales of medical equipments.

In surgical power device Industry, Xishan already holds more than 300 Patent applications. As the exclusively and officially authorized constitutor of Industrial standard for Chinese Electric Osseous Tissue Surgical Instrument, our production has covered Orthopedic, ENT, Ophthalmology, Neurosurgery, and maxillofacial surgery. Xishan already becomes the most professional and comprehensive surgical power supplier in the world

重庆西山科技股份有限公司成立于1999年12月，是专业从事医疗器械研发、制作与销售的国家高新技术企业。

公司自成立以来一直致力于手术动力装置和研究开发，在该领域的专利申请量超过300余项，是《电动骨组织手术设备》国家行业标准起草单位。公司目前涵盖产品线包括骨科，耳鼻喉科\眼科，神经外科，颌面外科等，已成为全球产品线最丰富、门类最完美的手术动力装置提供者。

SPINENDOS is dedicated to the latest innovation in minimal invasive spinal surgical techniques, systems and methods. To catching up the latest global industry trends, our company has been developing and fully comprehensive spinal endoscopic products with the support of high-quality service and constant process of production for our worldwide customers. SPINENDOS' s high-quality R&D team and the newest machines help us to meet the highest international standards.

SPINENDOS attaches great importance to clinical needs and applications, which contributes to improving and developing the perfect endoscopic spine equipments. In order to benefit more patients we attach great importance to education and training program to helping doctors safely and effectively operating our spinal endoscopic devices. As the aim of SPINENDOS "innovation for healthcare" we are dedicated to developing sustainable spinal endoscopic technology products and applications

SPINENDOS致力于微创脊柱手术技术、系统以及方法的最新创新。迎合全球最新的行业趋势，我们始终专注于为全球客户研发高品质服务支持下全面综合性的脊柱内窥镜产品以及持续不断的产品更新过程。SPINENDOS高品质的研发团队和最新的设备是我们符合最高国际标准的坚强后盾。SPINENDOS重视临床需求和应用，这有助于改善和发展完美的脊柱内窥镜设备。为了造福更多的患者，我们组织教学培训课程，来帮助医生更加安全及有效地使用我们的脊柱内窥镜设备。“医疗创新”是我们SPINENDOS的宗旨，我们致力于可持续性脊柱内窥镜技术、产品和应用的研发。