

HA Convention 2016

# **Surgical Treatment for Infertility**

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and Gynaecology, United Christian Hospital**

HA Corporate Scholarship Presentation

# Importance of reproductive surgeries

- **IVF implantation rates** still remain lower than expected :
  - **UTERUS** – role in implantation  
treating abnormalities in uterine cavity eg. polyps, fibroids...etc
- **Cost-effectiveness**
  - Cochrane review “ Surgical treatment for tubal disease in women due to IVF”  
Surgical treatment should be considered for all women with hydrosalpinges prior to IVF treatment → improves IVF pregnancy rates

# Cost-effectiveness of salpingectomy prior to IVF, based on a RCT

Strandell et al 2005 Humen Reprod 20:3284

Up to three IVF cycles, in women with hydrosalpinges demonstrable by USG

Group	Patient	Cost per livebirth
Salpingectomy	51	Euro 22823
No salpingectomy	44	Euro 29517



# Importance of reproductive surgeries

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  - **UTERUS** – role in implantation  
treating abnormalities in uterine cavity eg. polyps, fibroids...etc
- **Cost-effectiveness**
  - Cochrane review “Surgical treatment for tubal disease in women due to IVF”  
Surgical treatment should be considered for all women with hydrosalpinges prior to IVF treatment → improves IVF pregnancy rates
- Long public IVF waiting time
- Those not eligible for public funded ART eg. existing child

**No structured reproductive surgery training in HK**

Overseas training in Surgical Treatment for Infertility

Hysteroscopic Center, FuXing Hospital, Beijing

首都醫科大學附屬 復興醫院  
宮腔鏡診治中心

Period: November 2015 (1 month)





首都醫科大學附屬  
復興醫院

Fu Xing Hospital,  
Capital Medical University

# Fu Xing Hospital,



# City Center of Beijing

A few stations from the Forbidden City





# Fu Xing Hospital



The hospital was established in 1950, and became one of the teaching hospitals of **Capital Medical University** since 1979.





首都医科大学附属复兴医院  
Fu Xing Hospital, Capital Medical University

# 宫腔镜诊治中心

Hysteroscopic diagnosis and treatment center

首都医科大学附属复兴医院

宫腔镜诊治中心



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科室介绍

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首都医科大学附属复兴医院宫腔镜诊治中心为医院重点科室，创建于1992年，由国际妇科内镜学会理事，中国宫腔镜技术的奠基人夏恩兰教授亲自组建，历经十余年的发展，目前该中心宫腔镜与腹腔镜技术在国内居于领先水平，具有很高的国际声望，于2000年被国际妇科内... [详细介绍 >>](#)

科室动态

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- “手把手”宫腹腔镜诊治技术应用与...
- 我院成功举办第二十三届北京国际宫...
- 宫腹腔镜诊治技术应用与进展培训班...
- 我院夏恩兰教授荣获北京市卫生局20...
- 感谢信
- 表扬信
- 用辛勤的汗水灌溉成功果实
- 一份耕耘，一分收获



established by Prof Xia Enlan in 1990

# Prof. Enlan Xia 夏恩蘭 教授



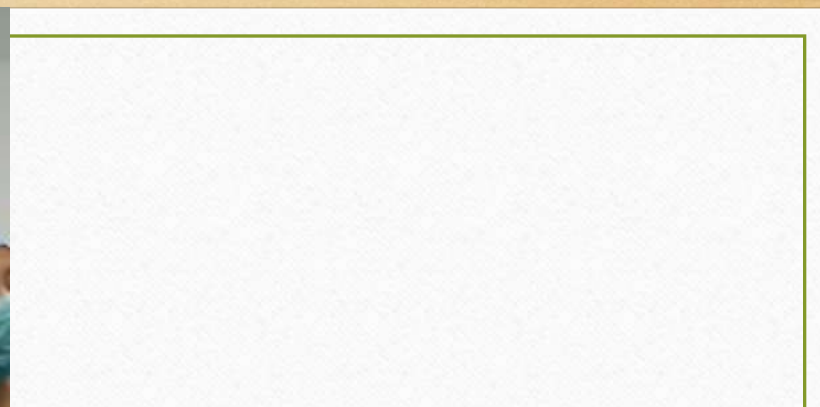
## Mother of Hysteroscopy in China 中國宮腔鏡之母

- the founder and a pioneer of Hysteroscopy in China
- established the Beijing International Hysteroscopic Center

research

training







**Famous**

**Patients !**

**Doctors !**

**6 teams**

each team

- Team head
- Trainees 2
- 4-5 doctors (進修醫師)  
from other parts of  
China





# My attachment

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- **Period: 1 month**
- **Ward round + Grand round 8am**
- **Whole day OT session from 9am  
(4 theatre simultaneously)**
- **Out-patient clinic (Prof. Xia)  
every Tue**



# Out-patient clinic

- One-stop clinic
  - USG, Hysteroscopy
- Seeing ~100 patients/day (both new and old cases)
- Patients coming from different provinces of China



at 7:45am



# In-patient services

- Ward
  - 5/F South wing
- Operation theatre
  - 10/F North wing
  - ( Changing room 11/F )





每日手术情况一览表  
2015年11月4日 星期三 9:37:19

03	1	普外科	18	腹腔镜探查术	刘宝胤	蔡捍东	赫艳	郭莹
03	2	普外科	01	腹腔镜下阑尾切除术	刘宝胤			
03	3	普外科	02	腹腔镜下阑尾切除术	刘宝胤			
04	1	妇科急诊		腹腔镜下全子宫切除术	龙桂	张莉红	刘月	马臻玉
04	2	妇科	22	全子宫切除术	张洪涛			
04	3	妇科	10	经阴道子宫切除术, 阴道前后壁修补术	赵艳忠			
04	4	妇科急诊		电吸人流术	赵艳忠			
04	5	妇科急诊		电吸人流术	赵艳忠			
04	6	妇科	01	电吸刮宫术	邓元琪			
05	1	宫腔镜中心	15	卵巢囊肿切除术	夏恩兰	谷祖利	缪文晶	牛静云
05	2	宫腔镜中心	22	腹腔镜下子宫环扎术	马宁			
05	3	宫腔镜中心	23	腹腔镜下卵巢囊肿切除术	马宁			
05	1	宫腔镜中心	09	腹腔镜下输卵管通液术	夏恩兰	曹霞	丁鸿飞	朱波
06	2	宫腔镜中心	32	宫腔镜下子宫内膜粘连松解术	彭雪冰			
06	3	宫腔镜中心	27	腹腔镜下卵巢囊肿切除术	彭雪冰	曹霞	丁鸿飞	朱波

## In-patient OT list

- *day surgery and diagnostic hysteroscopy is not listed in the screen*
- 4 theatre simultaneously
- ~30 OT/day
- ~50-60 diagnostic hysteroscopy/day

每日手术情况一览表  
2015年11月4日 星期三 9:27:28

07	1	眼科	10	结膜松弛矫正术	王海伟			张颖872
07	2	眼科	09	后入路玻璃体切割术	阮岩坤			
07	3	普外科	04	双侧甲状腺次全切除术	丁毅			梁原音
07	4	普外科	22	双侧甲状腺次全切除术	吴曦			
07	5	普外科	14	单侧乳房切除术	潘邦杰	孙剑		
07	6	普外科	15	乳房象限切除术	嵇成玉			
07	7	普外科	17	乳房象限切除术	张士淮			
07	8	普外科	02	皮下组织病损切除术	段煜飞			
07	9	普外科	26	乳房象限切除术	嵇成玉			
08	1	骨科	16	人工股骨头置换术	李立平	巴珊珊	李晶1118	李甜甜
08	2	骨科	14	胫骨骨折闭合复位螺钉内固定术	李立平			
08	3	骨科	11	锁骨骨折切开复位钢板内固定术	李立平			
09	1	宫腔镜中心	22	腹腔镜下输卵管通液术	刘玉环	邹雪芹	梁唯音	冯钰珊421
09	2	宫腔镜中心	19	宫腔镜下子宫内膜粘连松解术	刘玉环			
09	3	宫腔镜中心	01	腹腔镜下卵巢囊肿切除术	刘玉环			

每日手术情况一览表  
2015年11月4日 星期三 9:27:31

09	5	耳鼻喉科	13	鼻内镜下多个鼻窦开放术, 鼻内镜下鼻息肉切除术	陈丽艳			
10	1	妇科急诊		腹腔镜下子宫病损切除术	张李松	王鹏	武春颖	于淑荣
10	2	妇科门诊		宫腔镜下子宫病损切除术	张李松			
10	3	妇科门诊		宫腔镜下子宫内避孕装置去除	张李松			
10	4	妇科门诊		宫腔镜下子宫内避孕装置去除	张李松			
10	5	妇科门诊		经阴道子宫环扎术	张李松			
12	1	宫腔镜中心	11	腹腔镜下子宫腹腔镜切除术	宋冬梅	赵志丹	关京美	徐杨
12	2	宫腔镜中心	31	宫腔镜下子宫内膜粘连松解术	宋冬梅			
12	3	宫腔镜中心	07	腹腔镜下子宫腹腔镜切除术	夏恩兰			
12	4	宫腔镜中心	06	宫腔镜下子宫病损电切术	宋冬梅			
12	5	宫腔镜中心	12	宫腔镜下子宫内膜粘连松解术	宋冬梅			





**And this was how it looked at the end  
of my first day of attachment.....**



**Ceiling mount architecture**

Two TV sets

-one for laparoscopy

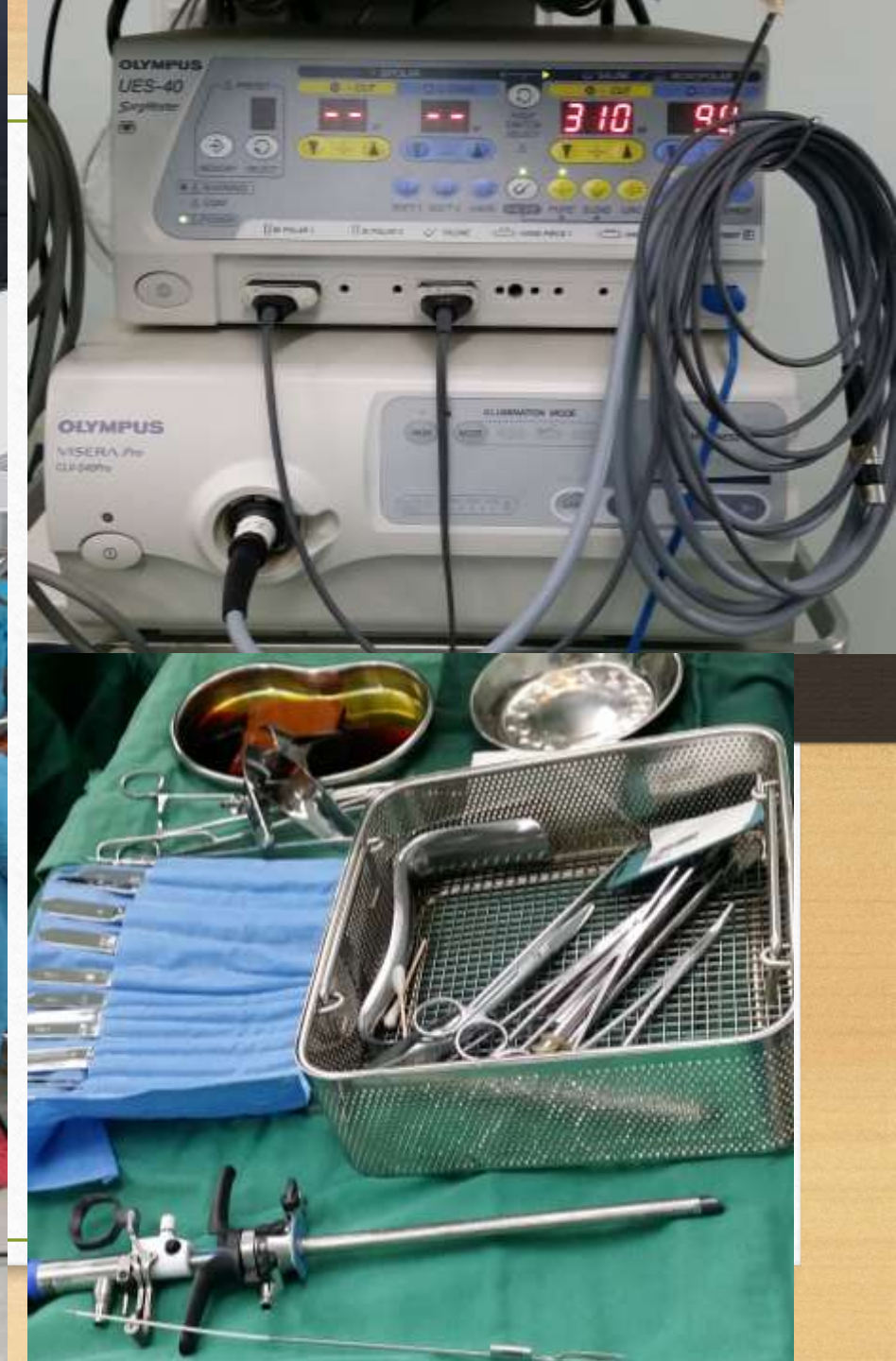
-one for hysteroscopy

**Gyn USG machine**

Manpower !







# Various fertility surgery

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- Fibrioplasty
- Hysteroscopic cannulation
- Laparoscopic cerclage
- Laparoscopic metroplasty
- Hysteroscopic
  - myomectomy
  - resection of septum
  - adhesiolysis



宫腔：形态失常，自宫底部向宫腔内突出一纵隔，将子宫分成两部分，分别于两个宫腔可见输卵管开口，隔下段距离子宫颈外口6.0cm，探宫深左侧7.5cm，右侧7.5cm；

内膜：中等厚度，出血：点。

术中操作： 诊刮：0.2g      内膜厚：3mm      取环：

联合诊断： 子宫不全纵隔

术后处理： 等待病理结果：2周后门诊复查；

检查医生： 谢薇；

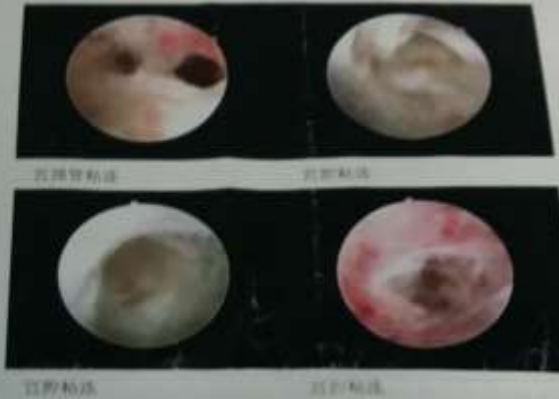
记录医生： 谢薇



# TCRS - septum



# TCRA - intra-uterine adhesions



主诉：月经量少

镜检所见：

宫颈管：宫颈管粘连分离后置镜观察。  
宫腔：形态失常，宫腔可见致密粘连带，呈筒状，狭小，宫腔深度6cm。  
双侧输卵管口未见。



处 理：宫颈管粘连分离

诊 断：宫颈管粘连  
宫腔粘连





# Congenital Uterine Anomaly

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# Laparoscopic transabdominal cervical cerclage

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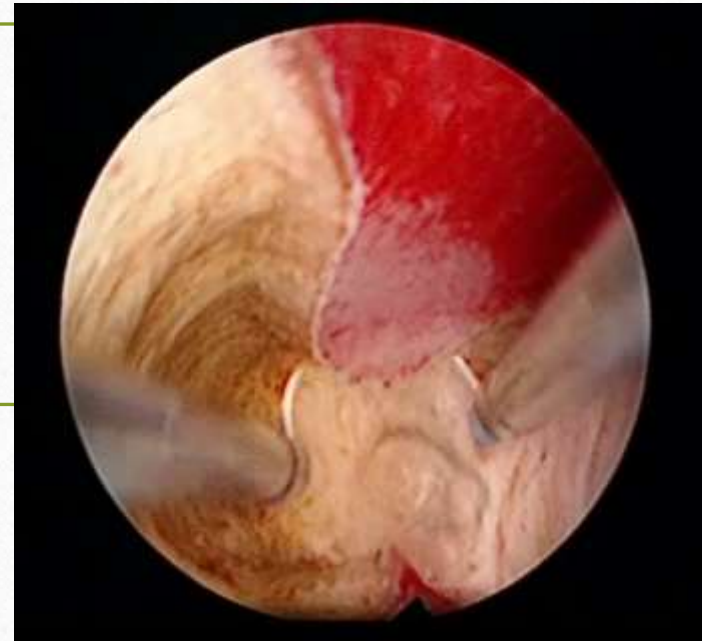
- Failed transversical cerclage in the provinces





# Endometrial resection

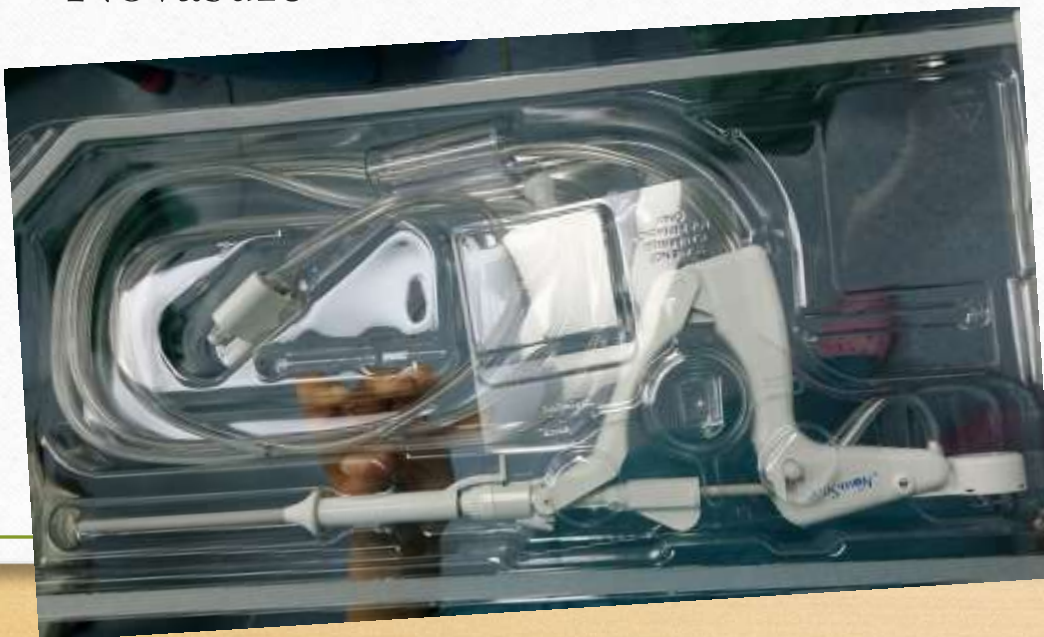
- Treatment for menorrhagia
- TCRE – transcervical resection of endometrium



# Endometrial ablation

- Treatment for menorrhagia

Novasure





# Hands on experience



- Polypectomy
- Myomectomy
- Excision of uterine septum
- Adhesion

# Academic meetings

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- Topic - Literature review
- Research meetings with research coordinators





# Academic meetings

- Congress and conferences



# Conclusion

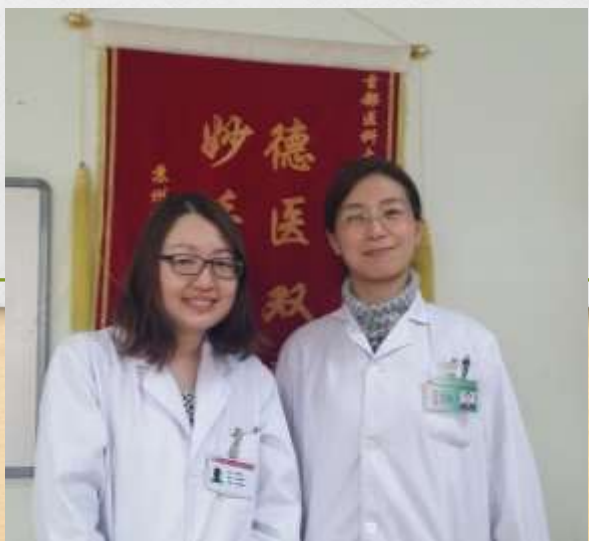
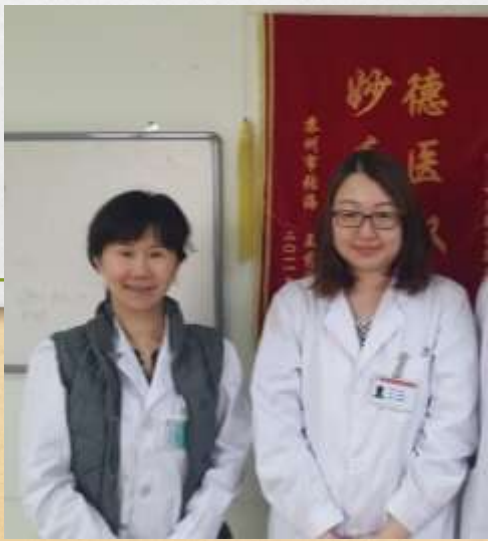
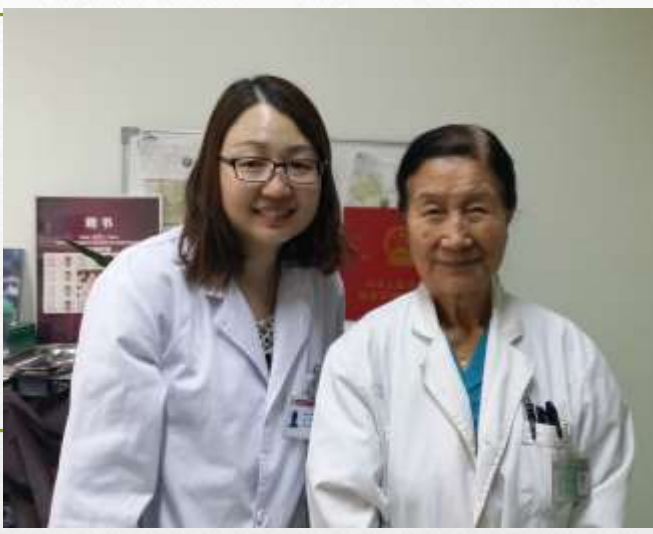
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Throughout the 1-month attachment to the Hysteroscopic center

- Learned advanced hysteroscopic and laparoscopic skills for therapeutic reproductive surgeries.
- To optimize the service provision of KEC cluster as a Level 2 infertility service center.



# Hysteroscopic Center 宫腔鏡中心





# Special thanks to

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- Prof. TC Li

Professor,  
Department of O&G,  
CUHK

Honorary Professor,  
Capital University of  
Medical Sciences, Beijing



- Prof. Xia

Professor and Director  
of the Hysteroscopic  
Center at Fuxing  
Hospital





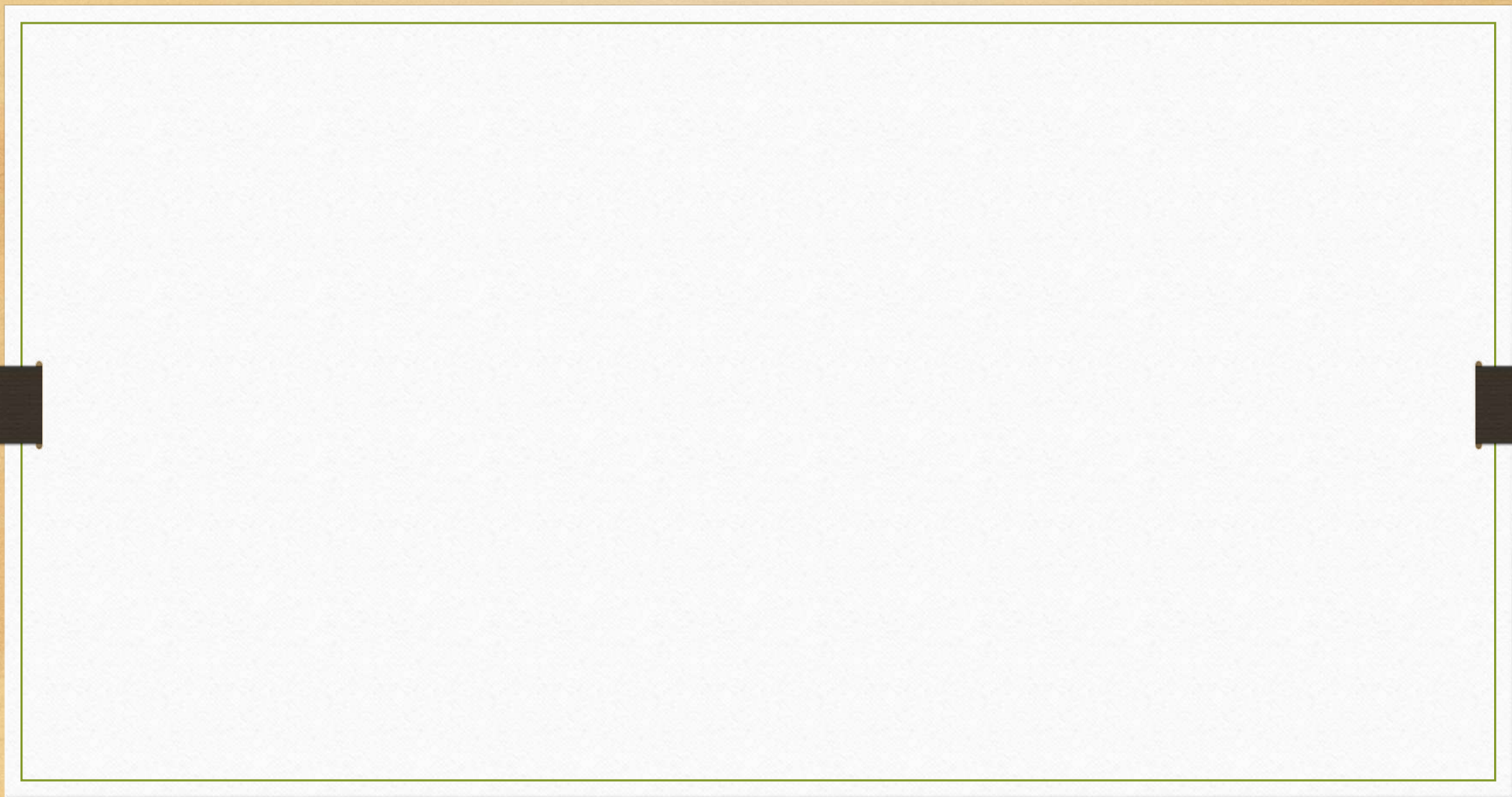
# My seniors in UCH & TKOH

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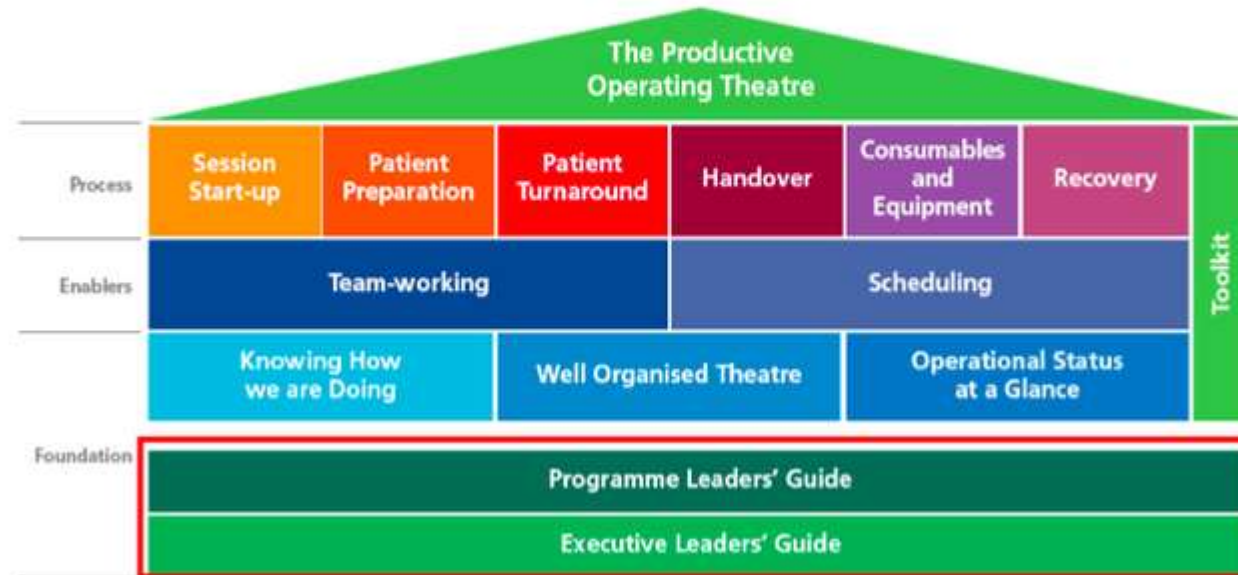








## The Productive Operating Theatre



A pictorial version of the toolkit recommended when considering improving NHS theatre productivity, from the NHS Institute of Innovation and improvement 'The Productive Operating Theatre 2009'