

Heart Team approach in cardiovascular specialty nursing---Opportunity or Challenge

心脏团队模式对心血管 专科护理的机遇和挑战

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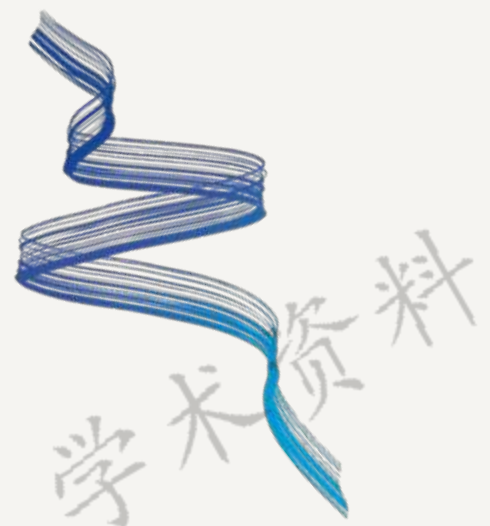
Content

- ❑ Heart team Approach （心脏团队模式）
- ❑ Cardiovascular Specialty Nursing development （心脏专科护理发展）
- ❑ New Opportunity （机遇）
- ❑ Challenges （挑战）



协作式诊疗：心脏团队模式

Heart Team Approach

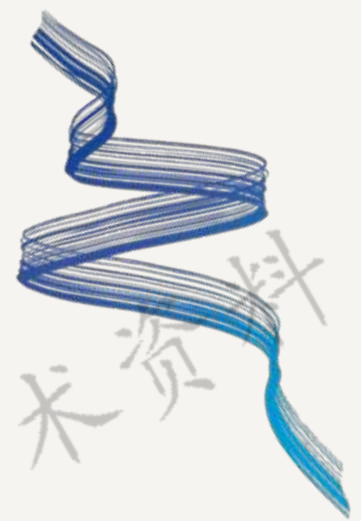


It is a team of health care professionals who work together to solve heart problem for patient.

多学科的团队一起解决病人的心脏问题。

协作式诊疗：心脏团队模式

Heart Team Approach



Why?

- The management of complex cardiovascular disease has changed markedly with the development of new strategies of care, an increasing amount of scientific evidence-based data and appropriate use criteria.

复杂心血管疾病的治疗已经发生了显著的变化：

1. 新技术的发展
2. 科学循证数据的数量增加
3. 在此基础上建立起来的运用依据

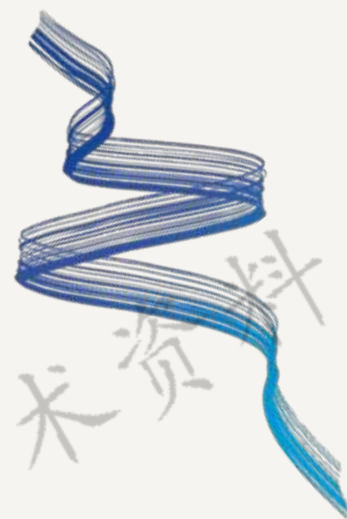
协作式诊疗：心脏团队模式

Heart Team Approach

Why?

- Patient centric evidence-based care multidisciplinary
Heart Teams have become identified as cornerstones

以病人为中心的 以循证为基础的多学科的心脏团队模式已经被认证是坚实的基石。





协作式诊疗：心脏团队模式

Heart Team Approach

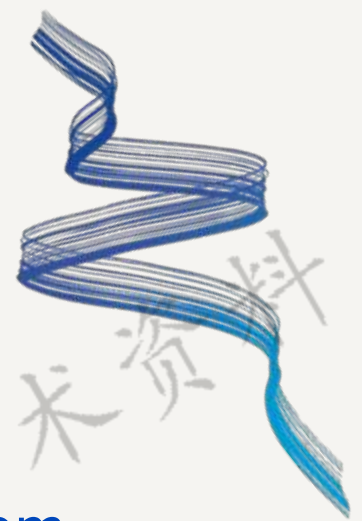
Why?

- The central goal of patient-centric care requires that the patient and family be sufficiently educated about the alternatives available so that their expectations can be met as fully as possible .

以病人为中心的诊疗目的需要病人和家属有足够的不同诊疗方案的信息，以致于选择的诊疗方案在最大程度上达到他们的期望。

协作式诊疗：心脏团队模式

Heart Team Approach



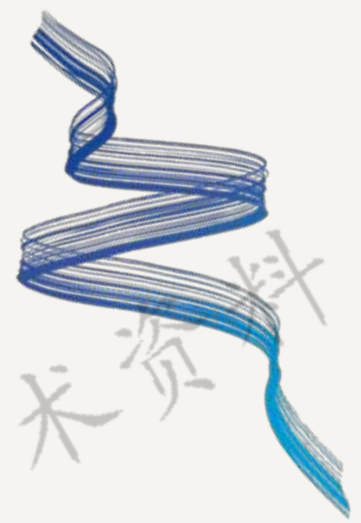
Why?

- Given the wide range of information available from different cardiovascular specialties and the potential for individual physician biases, team-based care has great potential merit.

针对于心血管各项专科知识的广度和有可能存在的医生的偏见，心脏团队模式有巨大的价值。

协作式诊疗：心脏团队模式

Heart Team Approach



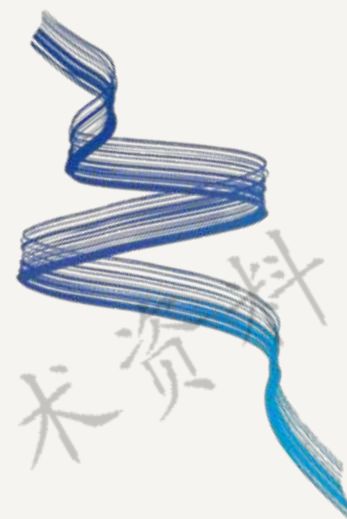
Why?

- This has now been codified in guideline documents, and the Heart Team has emerged as a class 1 indication in both the 2010 European Society of Cardiology and the European Association for Cardio-Thoracic Surgery Guidelines for Coronary Revascularization and the 2012 ACC/AHA Guidelines for Coronary Artery Bypass Grafting surgery .

心脏团队模式已经作为欧洲 和美国心脏内科和心胸外科临床诊疗的必备指导方针。

协作式诊疗：心脏团队模式

Heart Team Approach



Why?

- The goal of the multidisciplinary Heart Team is to offer a balanced and complementary approach to patient care by joint and shared decision making among different medical care stakeholders such as cardiac surgery and interventional cardiology.

多学科合作的心脏团队模式目的是为了提供一个平衡的，互相补充的方式，让临床医疗团队在作出诊疗方案之前，大家互相讨论，以长不短，共同决定最佳诊疗方案。

协作式诊疗：心脏团队模式

Heart Team Approach

-- Application



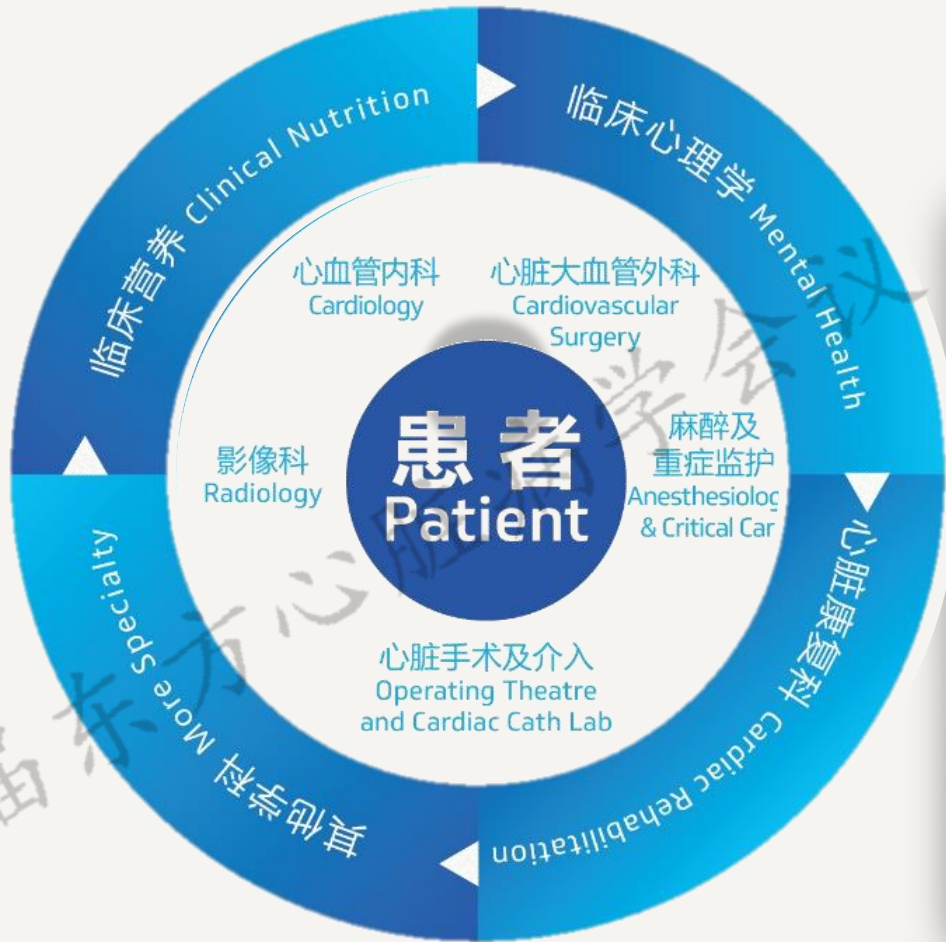
When to apply ? Who are the team member?

什么时候·？谁组成了心脏团队？

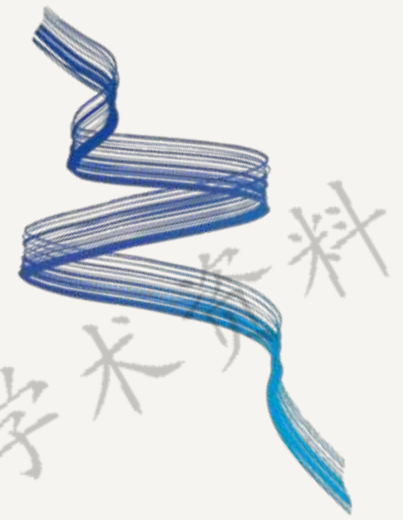
- Complex cardiac disease and patient care issue
- Heart Team Approach can help to put these issues into perspective for patients and their families.
- This multidisciplinary team, including an experienced cardiac surgeon, interventional cardiologist, and primary cardiologist, working together can help to focus on specific patient considerations and expectations.
- This team can then evaluate the specific clinical setting in the context of evolving data from both RCTs and registries, as well as their individual experience to fully inform the patient and family about the risks/benefits ratio of any specific recommendation.

协作式诊疗：心脏团队模式

Heart Team Approach



协作式诊疗：心脏团队模式 Heart Team Approach -- Application



How to apply ?

- Coronary revascularization therapy
- TAVR

第十届东方心脏病学术会议

Heart Team Approach--- Application

-----Coronary revascularization therapy

an acute coronary syndrome with an isolated single discrete distal right coronary artery stenosis

-----PCI

a patient with significant angina, multiple coronary occlusions, and other severe complex disease (with a high SYNTAX score: >33) with adequate target vessels and viable myocardium

-----surgical revascularization



How about those cases in between?

Revascularization Approaches for Coronary Artery Disease: **Comparison**

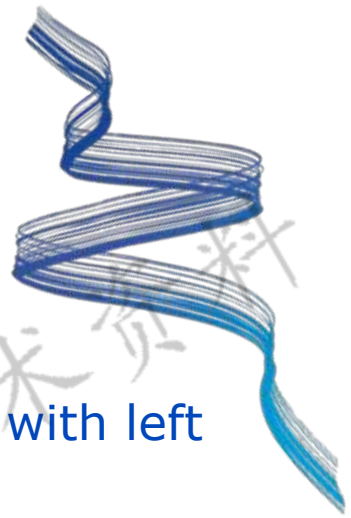
CABG

Advantages Compared with PCI

- Survival benefit in more complex disease particularly with left internal mammary artery (LIMA) use
- More complete revascularization
- Reduction in subsequent myocardial infarction
- Reduction in need for subsequent revascularization procedures

Disadvantages

- More invasive
- Longer recovery
- Increased periprocedural stroke
- Low use of multiple arterial grafts resulting in placement of venous conduits with potential development of subsequent vein graft disease
- Subsequent surgical procedures if needed are more difficult.



How about those cases in between?

Revascularization Approaches for Coronary Artery Disease: Comparison

PCI

Advantages compared with CABG

- Less Invasive
- Treatment of focal ischemic producing lesions leaving other lesions for later (targeted revascularization)
- Shorter recovery
- Can be repeated if needed
- Patient preference

Disadvantages

- Not shown to have a survival advantage or to decrease subsequent MI outside of primary PCI
- Less complete revascularization
- Vascular access bleeding
- Potential for stent thrombosis and need for dual antiplatelet therapy
- May need to be repeated
- Placement of very distal stents may preclude subsequent ability to place surgical grafts

Hybrid coronary revascularization

Advantages

- Minimally invasive
- LIMA to LAD with long term survival benefit
- Placement of DES rather than vein grafts to circumflex and right coronary artery
- Heart Team approach
- Completion angiography after surgery
- Excellent choice in patients with limited conduit availability
- Excellent choice in patients who have difficult to approach lesions with traditional grafting (e.g., AV groove lesions with multiple branching small epicardial coronary arteries subtending significant myocardial territories)

Disadvantages

- Need for hybrid operation room/catheter laboratory or two procedures
- Reimbursement issues
- Still requires a surgical procedure
- Not shown to have a survival advantage or to decrease subsequent MI versus standard of care CABG when possible
- No long-term randomized clinical trial data on relative safety/efficacy versus conventional CABG



How to make the best decision for patient?

PCI or CABG?

Answer:

HEART TEAM approach

Specialty Nursing development

专科护理的发展

1. Nurses are responsible for the direct care delivery and the consequential outcomes, specified in that ANA foundational document.
护士负责直接的临床护理和对临床效果负一定的责任，这在美国护士协会文件中有证可循。
2. Grounded in the profession of nursing, areas of focused nursing practice have emerged as nursing specialties.
根深蒂固的在护士职业的发展中，专科护理的发展已经演变和发展成型。
3. Registered nurses at the national and international level, as well as other stakeholders engaged in legal, regulatory, administrative, education, and research activities, value scope and standards documents.
无论在国内还是国外，注册护士已经和医生还有其他临床专业在法律，规定，行政，教学，科学研究领域扮演不同的角色。

Specialty Nursing development---Roles and grading -----USA

RN

Senior Nurse

Nurse specialist

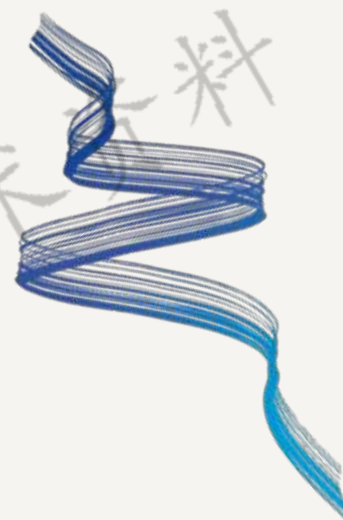
Advanced Practitioner Nurse

Nurse Practitioner

Clinical Nurse Educator

Clinical leader-Nurse Clinician

Clinical Manager



Specialty Nursing development---- Roles and grading

-----UK

Staff Nurse

Senior staff Nurse

Clinical Nurse specialist

Nurse consultant

Nurse Practitioner

Lecturer practitioner

Clinical manager

All specialty nursing requires credentialing just like doctors.

Specialty Nursing development---- Clinical Discipline

-USA

cardiovascular

perinatal

gynecology

critical care:

cardiovascular intensive care

cardiac intensive care unit

medical surgical intensive care

neonatal intensive care

trauma and neurosurgical intensive care

diagnostic imaging

laboratory services

emergency

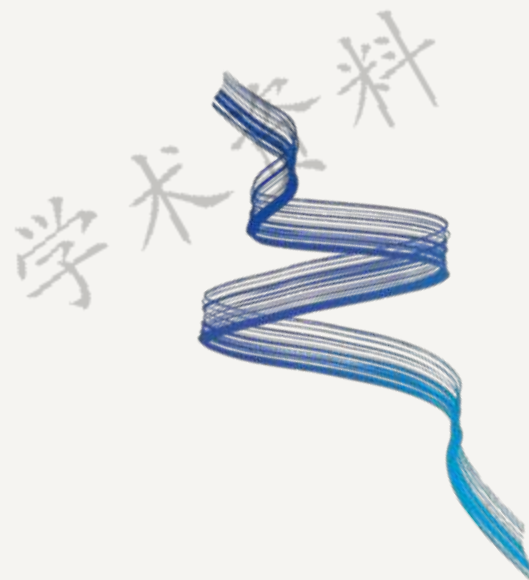
gastroenterology

community and family practice

gerontology

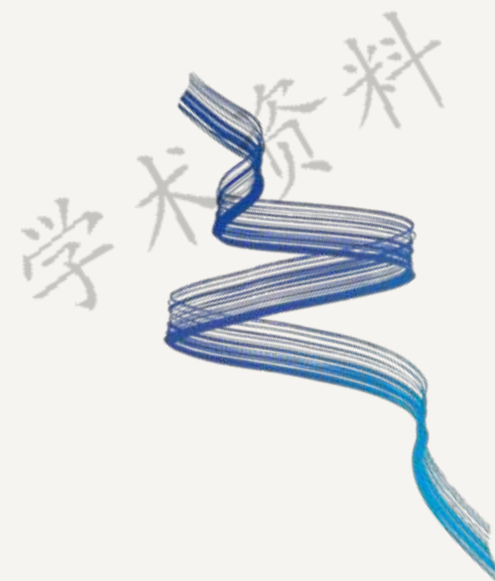
IV service

infection control



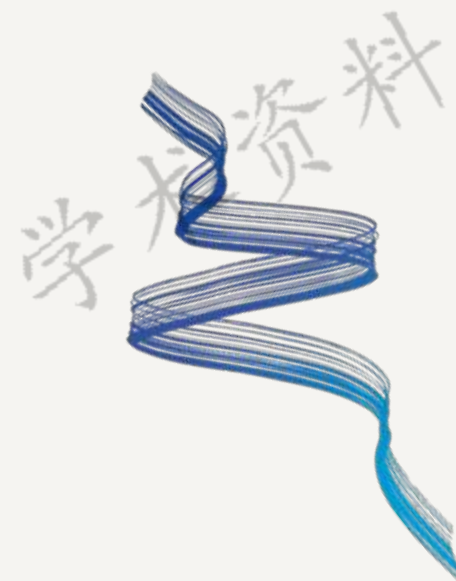
Specialty Nursing development---- Clinical Discipline USA

infection control
mental health
nephrology
neurology
neurosurgery
nursing informatics
occupational health
oncology
orthopedics
palliative care
perioperative
trauma
respirology
cardiology



Specialty Nursing development---- Clinical Discipline UK

Ambulatory care nursing
Advanced practice nursing
Burn nursing
Camp nursing
Cardiac nursing
Cardiac Intervention nursing
Dental nursing
Medical case management
Community health nursing
Correctional nursing
Critical care nursing
Emergency nursing
Environmental health nursing
Faith community nursing
Flight nursing
Forensic nursing
Gastroenterology nursing
Genetics nursing
Geriatric nursing
Health visiting
Holistic nursing
Home health nursing
Hospice and palliative care nursing
Hyperbaric nursing
Immunology and allergy nursing
Intravenous therapy nursing
Infection control nursing
Infectious disease nursing
Legal nursing
Maternal child nursing



Specialty Nursing development---- Clinical Discipline UK

- Military and uniformed services nursing
- Neonatal nursing
- Neurosurgical nursing
- Nephrology nursing
- Nursing informatics
- Nursing management
- Nursing research
- Nurse midwifery
- Obstetrical nursing
- Occupational health nursing
- Oncology nursing
- Orthopaedic nursing
- Ostomy nursing
- Pediatric nursing
- Perianesthesia nursing
- Perioperative nursing
- Private duty nursing
- Public health nursing
- Pulmonary nursing
- Quality improvement
- Radiology nursing
- Rehabilitation nursing
- Research nursing
- Renal nursing
- School nursing
- Space nursing
- Sub-acute nursing
- Substance abuse nursing

Cardiovascular Specialty Nursing development



Internationally subspecialization becomes the trend of specialty nursing development:

- Interventional Cardiovascular nurses (Cath Lab)
- Cardiothoracic surgical nurses (Perioperative Care)
- Radiological therapy (Diagnostic imaging)
- Cardiothoracic Intensive care (CTSICU, CCU)
- Cardiac care coordinator (cardiac related clinical pathways)
- Heart failure nurse (HF patients)
- Valve nurses (valve cases)
- Pediatric cardiac nurses (congenital cardiac cases)
- Nurse trained Perfusionist
- Cardiac Nurse practitioner
- Cardiac Nursing School/ Campus such as Duke University etc

Opportunity: 机遇

1. Nursing profession has greatly benefit from its in-depth development and growth in specialty nursing Practice.

专科忽视的发展增强了·护理事业的·专业性和职业性。

2. Nurses can more choices in career development.

护士有多方位的职业选择。

3. Nurses' job satisfaction can be enhanced due to diverse practice

护士的工作满意度会因为工作的广度和深度而大大提高。

4. As major population of health care workforce, it helps to recruit more nurses joining this profession.

作为医院的最大需求，护理专科的发展会促进护士的招聘。

5. It will enhance the social position for nurses and strength the social status.

专科护士的发展当然会提高在专业领域的社会地位。

6. It elevates public image and recognition

也会促进公共形象和社会的认可。



Challenges

1. It needs resources to develop the specialty nursing practice by benchmarking national and international criteria.

需要大量的人力和社会资源来建立国际标准的专科护理。

2. It requires legal professional body to legalize the practice.

它需要强有力的专业法制机构来管理他的合法和权益性。

3. It requires physician's buy-in and acceptance as specialty nurses may take over some practice from them.

需要医生能够接受专科护士将代替他们做部分的医疗工作。

4. It requires hospital management's support to develop this role.

需要医院管理层的支持来发展和实施专科护理的操作性。

5. It requires relevant nursing associations/ government bodies to give administrative and social support.

需要政府给予行政的支持。

6. It requires nurses to change mindset and challenge themselves to take higher responsibilities.

需要护士改变思维方式，事项专业的自主性。

德达医院概况

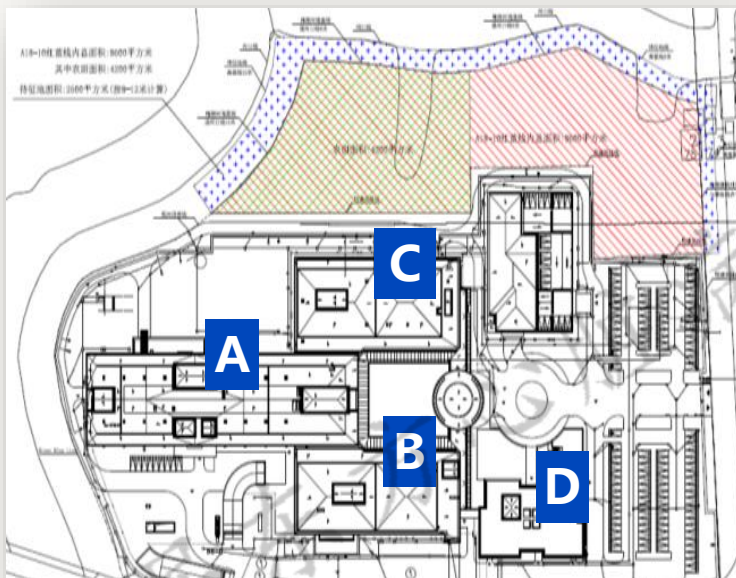
DeltaHealth Hospital · Shanghai



- 由国际知名的**斯道资本**投资成立的一家立足于创新的**综合医院**
- 致力于服务上海及周边地区
- 位于青浦区徐泾镇
- 总建筑面积**51,642**平方米
- 一期床位**200**张，二期床位**350**张
- **38间**重症监护病房，**7间**手术室，**2间**心脏导管室，**2间**复合手术室

医院布局

Layout of SDH



A 楼：手术部、住院部

A: Operation Room, Inpatient

B 楼：门诊、急诊、住院部

B: Outpatient , Emergency, Inpatient

C 楼：ICU、住院部、餐厅

C: ICU, inpatient , Restaurant

D 楼：行政管理楼

D: Administrative Building

病房类别 Type of General Wards



床位数 No. of beds: 200

38

重症监护 ICU

72

双人间 Double Room

80

单人间 Single Room

2

VIP套间 VIP Suite

8

四人间 Four Bedded



数量
Account

影像设备

Imaging Equipment



■ 计算机断层扫描 (CT)

Brilliance ICT (iMR)



■ Ingenia 3.0T 大孔径 (70cm) 磁共振

Ingenia 3.0T MRI



■ DSA大平板探测器 (30*38cm)

UNIQ Clarity FD20



■ 无线双平板探测器数字X线摄影设备 (DR)

Digital Diagnost Power

国内顶尖团队



孙立忠
心外科
中国医师协会心血管外科分会副会长
美国**AATS** 资深会员



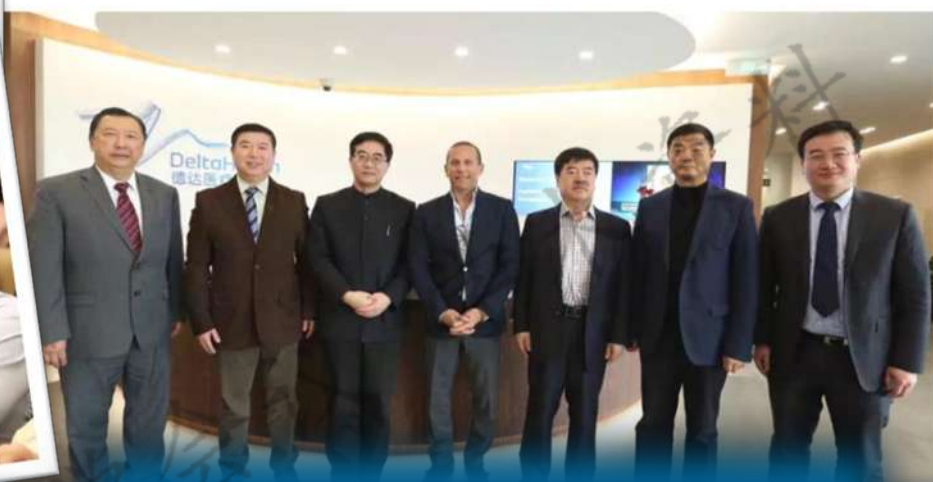
葛均波
心内科
中华医学会心血管病学分会主任委员
中国科学院院士



刘建实
心外科
中华胸心血管外科学会委员



黄连军
介入治疗与医学影像
中国医师协会介入学术
委员会主任委员



国际合作伙伴



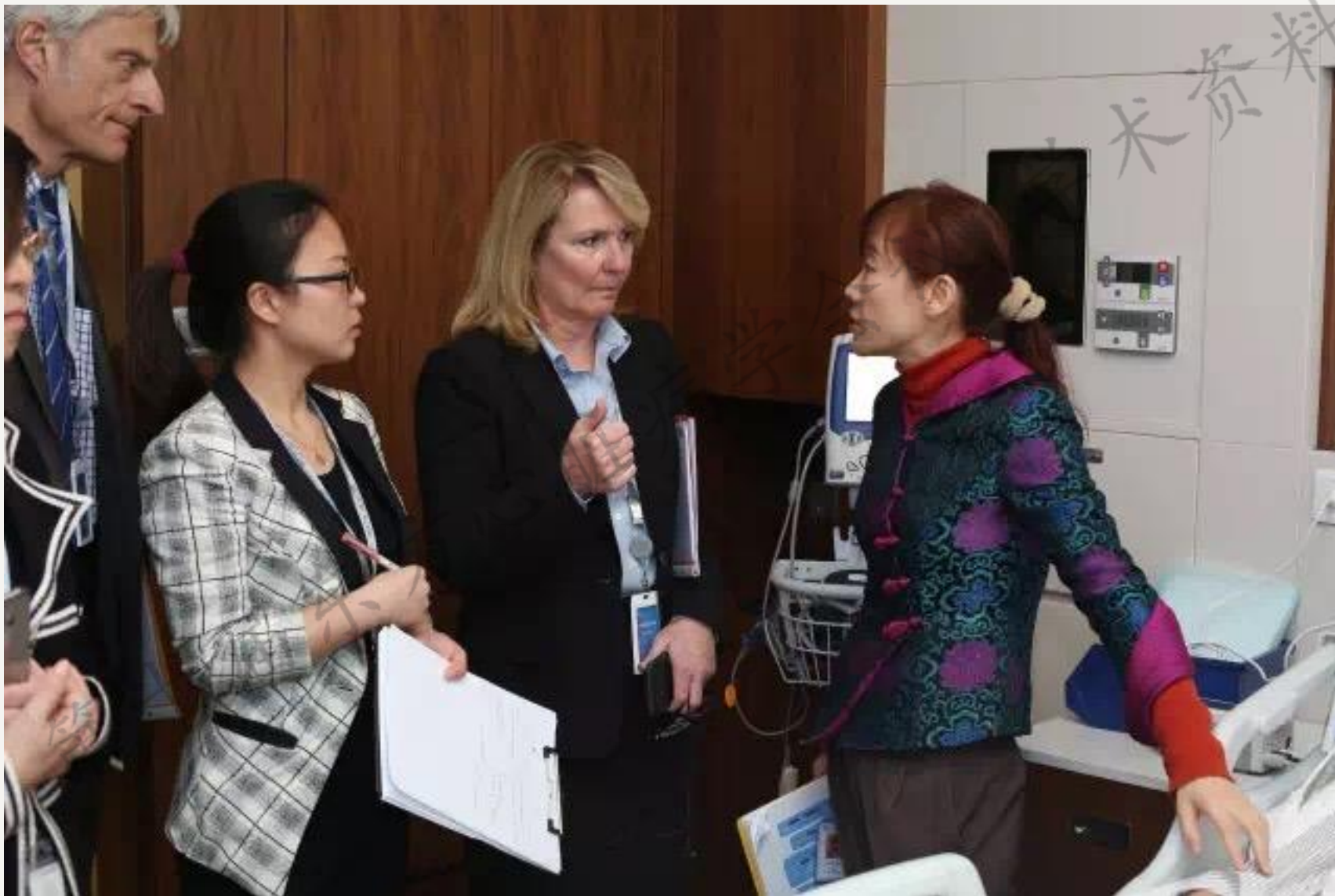
COLUMBIA UNIVERSITY
MEDICAL CENTER



德达护理团队



德达护理团队



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<http://www.agoodme.com/views/mobile.html?tid=154c987ab509c53a&dataFrom=mobile&from=timeline&isappinstalled=0>

The background of the slide is a photograph of a modern, multi-story building interior with a high ceiling and large windows. Overlaid on this is a large, stylized blue DNA double helix graphic that winds across the center of the slide. The text 'THANK YOU' is prominently displayed in the upper right quadrant.

THANK YOU

DeltaHealth
德达医疗

inspiring heart care 卓越·心关爱