

Training venue: Mahkota Medical Center, Malaysia

# THE THIRD INTERNATIONAL TRAINING WORKSHOP ON FOCUSED ULTRASOUND THERAPY FOR TUMORS

#### High Intensity Focused Ultrasound (HIFU) Therapy

Under the auspices of Department of International Cooperation, Ministry of Science and Technology, the People's Republic of China

#### Co-organized by

Chongqing Medical University, China
National Engineering Research Center of Ultrasound Medicine, China
Selva's Fertility, Obstetrics & Gynaecology Clinic, Malaysia
Mahkota Medical Center, Malaysia
International Society of Minimally Invasive and Virtual Surgery

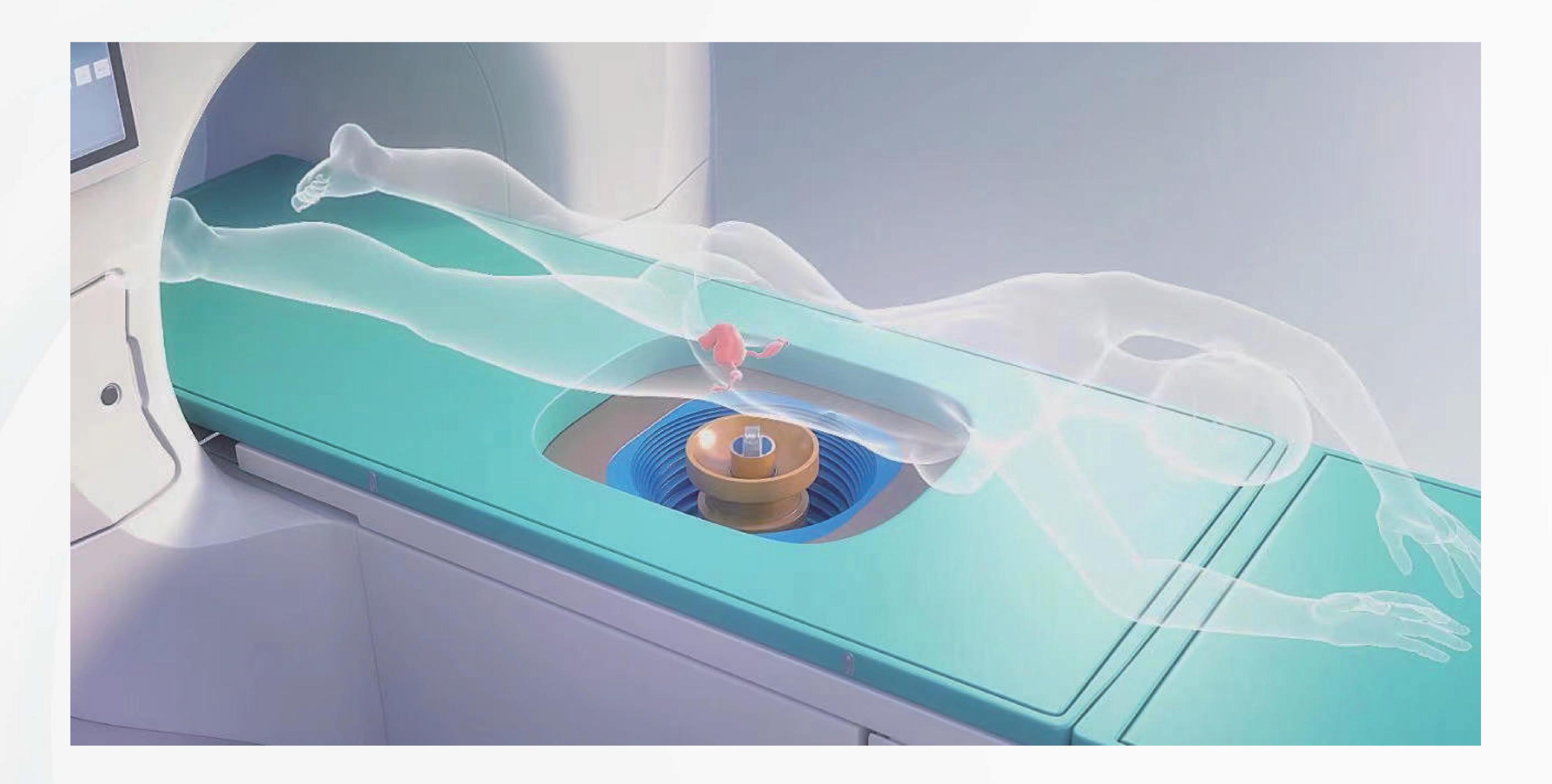






#### About HIFU

High Intensity Focused Ultrasound (HIFU) refers to the noninvasive therapeutic technology that concentrates the energy of extracorporeal low-intensity ultrasound beams onto the targeted lesions inside the body, resulting in a rapid temperature rising up to 65-100 °C at the focal point and an induction of irreversible coagulative necrosis without damaging the surrounding tissues.



#### Indications:

Solid tumors such as liver tumor, pancreatic tumor, kidney tumor, bone tumor, uterine fibroids, etc.; and adenomyosis.

#### Advantages of HIFU:

Non-invasive treatment

Anti-tumor immunity activated

Minor complications compared to conventional surgeries

No risk of iatrogenic infection

Shorter hospital stay

Faster recovery after treatment

No blood transfusion required

Single-session treatment in most cases

#### About the Training Workshop

International Training Workshop on Focused Ultrasound Therapy for Tumors, a Chinese government sponsored medical training program, provides training courses on High Intensity Focused Ultrasound (HIFU) therapy for clinicians including obstetricians and gynecologists, oncologists, surgeons, interventional radiologists, etc. Since 2012, under the auspices of the Department of International Cooperation of Ministry of Science and Technology of the People's Republic of China, it has been implemented for 7 sessions by Chongqing Medical University and National Engineering Research Center of Ultrasound Medicine jointly with different organizations, having trained 149 doctors from 42 countries. In 2018, this Workshop for the first time went abroad to Cairo, Egypt and continued its overseas education in Johannesburg, South Africa in 2019.

The 2020 workshop which was planned to be held in Pleven, Bulgaria was postponed due to the COVID-19 Pandemic, now as the pandemic is better controlled, we plan to organize the 2022 Training Workshop in Malacca, Malaysia.

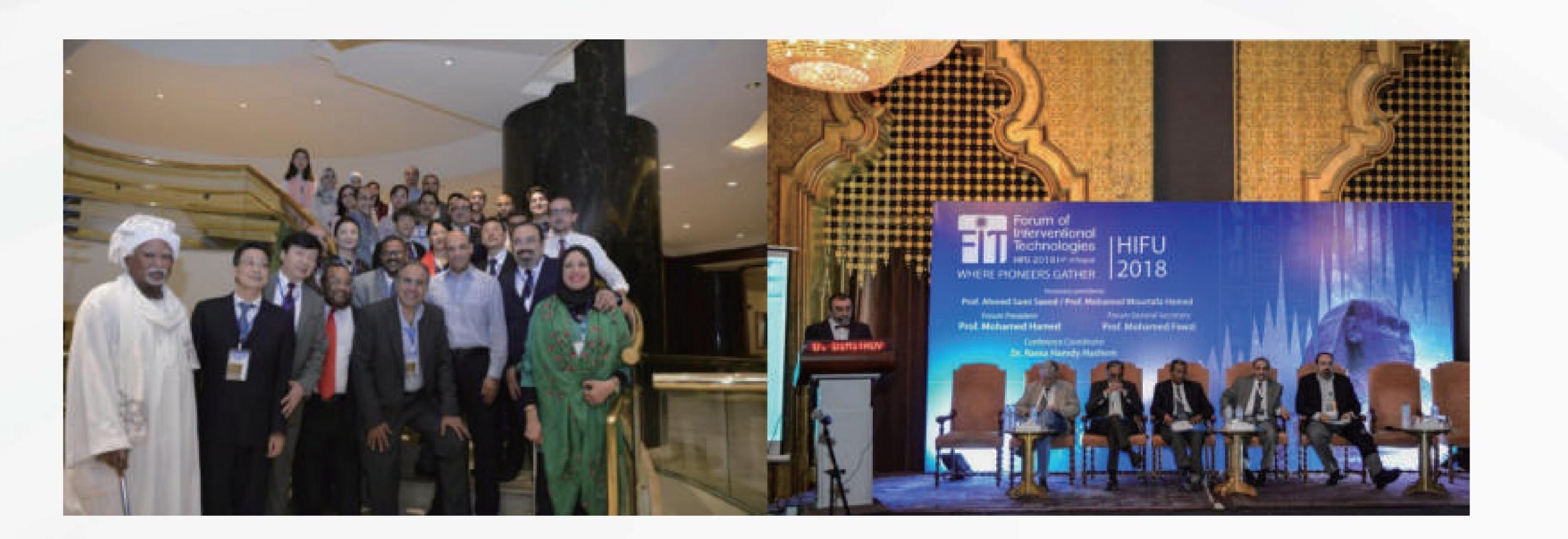
#### Past Workshop



2019 Training Workshop (Johannesburg, South Africa)



2018 Training Workshop (Cairo, Egypt)



### Training Plan

Schedule (tentative)

	SUN	MON	TUE	WED	THU	FRI	SAT
							12
							Arrival &
							Registration
	13	14	15	16	17	18	19
AM	Tour in	Video study &	Lectures &	Lectures &	Video study	Lectures &	Off day
	MMC &	Case discussion	Video study	Video study	& Lectures	Video study	
	Introduction						
	of Haifu						
	system						
PM	Opening	Practice & Case	Practice & Case	Practice &	Lectures &	Lectures &	
	ceremony	study in HIFU	study in HIFU	Case study in	Case study	Case study in	
	& HIFU	room	room	HIFU room	in HIFU	HIFU room	
	conference				room		
	20	21	22	23	24	25	26
AM	Off day	Practice on	National Report	Practice on	Practice &	Closing	Departure
		dummy/patient		dummy/patient	Video study	ceremony &	
		positioning		positioning		Awarding of	
						certificate	
PM		Lectures & Case	Video study &	Video study &	Theoretical		
		study in HIFU	Case study in	Case study in	test &		
		room	HIFU room	HIFU room	Hands-on		
					test		

#### Part 1: Lectures (tentative)

#### HIFU Conference:

- · Ten year's experience in Oxford
- · HIFU and fertility
- · HIFU treatment for adenomyosis
- · Training experience in China
- · HIFU treatment for pancreatic cancer and the survival analysis

#### Training lectures (tentative):

- · HIFU treatment of uterine fibroids-the clinical protocol
- · The physics and biomedical effect of HIFU
- · In vitro animal experiment-the correlation between HIFU dosage and HIFU ablation effect
- · Case study on HIFU ablation of uterine fibroids
- · Patient selection for HIFU
- · MRI images of pelvic diseases
- · Understand MRI images and the application in HIFU
- · HIFU treatment of adenomyosis-the clinical protocol
- · Nursing for HIFU treatment of uterine fibroids or adenomyosis
- Sedation and analgesia planning for HIFU ablation
- · Application of oxytocin in HIFU treatment of uterine fibroids
- · Complications of HIFU treatment and the countermeasures
- · From treating the disease to the diseased
- · How to prepare patient
- · Introduction of telemedicine system and it's current application
- · HIFU in the treatment of breast cancer and breast benign diseases
- · Nursing care of HIFU treatment of malignant tumor
- · HIFU treatment of liver tumor- the clinical protocols (online)
- · Case study on HIFU ablation of uterine fibroids or adenomyosis
- · HIFU treatment of pancreatic cancer -the clinical protocols (online)
- · Case study on HIFU ablation of uterine fibroids or adenomyosis

Part 2: Hands-on practice on software

Part 3: Hands-on practice on HIFU system with dummy

Part 4: Case study

#### The lecturer team (tentative)

Dr. S. Selva (Sevellaraja Supermaniam), Gynecologist (Chief Lecturer) Mahkota Medical Center, Malaysia

Dr. He Min, Training Director, HIFU Specialist (Chief Lecturer) National Research Center of Ultrasound Medicine, China

Prof. David Cranston, Surgeon Oxford University, UK

Dr. Jordi Rodriguez Gonzalez, Gynecologist Hospital of Mutua De Terrassa University, Spain

Prof. Holger Strunk, Interventional Radiologist University Hospital Bonn, Germany

Prof. Milka Mariona, Interventional Radiologist University Hospital Bonn, Germany

Prof. Mohamed Hamed, Interventional Radiologist Cairo University, Egypt

Prof. Rosie Xing, Researcher (Molecular Biology)
Chongqing Medical University, China

Ms. Julia Foo, Nurse Mahkota Medical Center, Malaysia

#### Expense and fee

- 1. No registration fee will be charged;
- 2. Round-trip air tickets from the trainees' country to Malacca,
- Malaysia will be borne by trainees yourselves;
- 3. For trainees dwelling outside Malacca, accommodation and local transportation will be provided by the organizer;
- 4. Lunches during training days will be provided by the organizer.

#### Certificate

A certificate of training will be granted by the Department of International Cooperation of Ministry of Science and Technology, the People's Republic of China to the trainees who have completed the training courses.

### Application requirements

2022 Training Workshop is open to gynecologists, obstetricians, oncologists, interventional radiologists, surgeons, etc. who are interested in noninvasive High Intensity Focused Ultrasound (HIFU) therapy. Applicants must meet the following requirements:

- Hold a valid practicing certificate;
- Master ultrasound imaging;
- Hold a valid practicing certificate;
- Be fluent in English;

Be in a good health status



### How to apply?

Application is open from July 1st to July 31st, 2022. Please send your CV, passport scan copy, and a head-shot photo together to <a href="mailto:hannahxu@isminim.org">hannahxu@isminim.org</a>

20 applicants will be admitted for the Training Workshop after the review of CVs, and the admission shall be confirmed by email notification.



## Ministry of Science and Technology (MOST) of the People's Republic of China

Ministry of Science and Technology (MOST) of the People's Republic of China, is a government agency responsible for the formulation and implementation of national science and technology research and development plans. One of its important missions is to strengthen international cooperation in science and technology with other countries. Since 1989, MOST has been sponsoring international technical training workshops and/or courses on various subjects/areas, setting up successfully the win-win international scientific and technological cooperation with a number of countries. MOST sincerely welcome more friendly and equal international scientific and technological cooperation.

#### About the organizers

## Chongqing Medical University (CQMU), China





https://www.cqmu.edu.cn/

Chongqing Medical University (CQMU), founded in 1956, is one of the key public medical universities in China. CQMU consists of 19 colleges and departments, 1 graduate school and 1 Institute of Life Sciences, offering 7 postdoctoral programs, 38 Ph.D. programs, 86 master programs and 27 undergraduate programs. It has 44 research institutes and 8 affiliated hospitals with more than 17000 beds. The research team of CQMU invented in the 1980s

the High-intensity Focused Ultrasound (HIFU) Therapy System with complete ownership of the intellectual property right. After years of technological dissemination and commercialization by Chongqing Haifu Medical Technology Co., Ltd, the therapeutic systems have been exported to 28 countries and regions.



National Engineering Research Centre of Ultrasound Medicine (NERCUM), China

NERCUM, set up in 2005 and headquartered in Chongqing, China, is the only national engineering research center in the field of digital medical devices approved by the National Development and Reform Commission of China. It has the only FUAS Training Base authorized by the Ministry of Health of China. Every year NERCUM will train hundreds of Chinese and foreign HIFU doctors.



### Selva's Fertility, Obstetrics and Gynaecology Clinic



Since its founding in 1994, Selva's Fertility, Obstetrics and Gynaecology Clinic has been striving to deliver the best care to patients, may it be pregnant mothers, women with gynaecological problems or couples seeking fertility assistance.

Under the direction of its founder, Dr. Sevellaraja Supermaniam (Dr. Selva), the clinic specializes in advanced laparoscopic surgeries, notably treatment of endometriosis, infertility, ovarian cysts, ectopic pregnancy, and hysterectomy. Besides, the clinic provides a comprehensive range of infertility services such as basic infertility work-up, intrauterine insemination (IUI), in-vitro fertilization (IVF), intracytoplasmic sperm injection (ICSI), cryopreservation (sperm and embryo freezing), and testicular sperm aspiration (TESA).

Dr. Selva is the first to start the Ultrasound-based HIFU centre at Mahkota Medical Cantre since 12/7/2021 The HIFU center that is headed by Dr. Selva started service on July 12 2021, up till July 2022, about 250 cases of patients have been treated by Dr. Selva.

## Mahkota Medical Center, Malacca, Malaysia



https://www.mahkotamedical.com/

multi-disciplinary private hospital located in the sultants across a wide range of medical and surgical heart of Melaka, a UNESCO world heritage site.

Founded on 30 September 1994, it offers advanced management and allied healthcare staff with varying diagnostic, therapeutic and intensive care facilities qualifications. and quality medical services. Mahkota is the flagship Mahkota Medical Centre is a top medical tourism hospital of Health Management International Pte destination in Malaysia, serving around 95,000 for-Ltd (HMI Group).

Mahkota Medical Centre, one of the largest private The hospital is currently licensed with 305 beds in hospitals in Southern Peninsular Malaysia, is a eight wards and houses with over 120 practising condisciplines. It is supported by a dedicated team of

> eign patients annually, it is one of the most comprehensive hospitals focusing on medical sub-specialties with high surgical workloads.



## International Society of Minimally Invasive and Virtual Surgery (ISMIVS)

The International Society of Minimally Invasive and Virtual Surgery (ISMIVS), previously known as International Society of Minimally Invasive and Noninvasive Medicine, was founded in July 2013 in Chongqing, China. ISMIVS' vision is to accelerate the development of minimally invasive and noninvasive medicine through the clinical research, training, academic communications, and international collaborations. ISMIVS has convened 4 sessions of Yangtze International Summit on Minimally Invasive and Noninvasive Medicine. The current president is Prof. David Cranston from University of Oxford.

http://isminim.org/



2019 Yangtze International Summit convened by ISMIVS (Chongqing, China)

#### FOR MORE INFORMATION, PLEASE CONTACT



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