

Training workshop in Haikou

Dr Nilar Win Myint

Lecturer

Obstetrics and Gynaecology Department

University of Medicine, Magway

Name of Workshop

- International training workshop on diagnosis and treatment of the major disease in ASEAN countries



海南医学院

HAINAN MEDICAL UNIVERSITY

20. June 2017

International Training Workshop on Diagnosis, Treatment and Prevention of the Major Diseases in ASEAN – Invitation

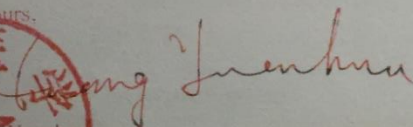
It is our great pleasure to invite Dr. NILAR WIN MYINT, female, Burmese, passport no. MB358907, to attend the International Training Workshop on Diagnosis, Treatment and Prevention of the Major Diseases in ASEAN jointly organized by the Affiliated Hospital of Hainan Medical University and the Chinese University of Hongkong, which will be held on Oct. 22 to Nov. 10, 2017, in Haikou, Hainan, P. R. China.

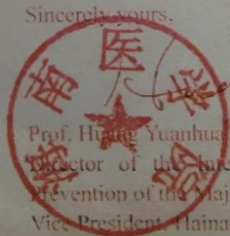
The aim of the workshop is to train the health system officials, doctors and laboratory technicians in the region of ASEAN to master the developed technologies of diagnosis, treatment and prevention of major diseases in tropical regions, especially thalassemia, and the therapy of infertility and assisted reproduction, to establish a good platform for technical exchanges and cooperation, thus enhancing the national friendships and cooperation in the field of medical technology.

The Organizing Committee of the Training Workshop is pleased to cover the following fees during your training period, which include training fee, food, accommodation and personal accident insurance fee.

Please confirm your participation at your earliest convenience. We look forward to welcoming you in Haikou.

Sincerely yours,


Prof. Huang Yuanhua
Director of the International Training Workshop on Diagnosis, Treatment and Prevention of the Major Diseases in ASEAN
Vice President, Hainan Medical University



Organizer

- Hainan Medical University
- The Chinese University of Hong Kong
- The First Affiliated Hospital of Hainan Medical University
- Hainan Reproductive Medical Center

Venue

- Haikou, Hainan, People's Republic of China











Duration of Workshop

- 23rd October 2017 to 11th November 2017
- Organization committee cover the training fees, food, accommodation and personal accident insurance fee





Participants

- Myanmar – 6
- Iran – 6
- Mongolia - 3
- Pakistan – 2
- India - 1



Program agenda

Lecture topics

- Introduction of infertility and ART
- Controlled ovarian hyperstimulation
- Gestational diabetes mellitus
- Obstetric antiphospholipid syndrome
- IVF and embryo culture
- What makes an IVF lab successful

- Principle for embryonic stem cell culture
- Principle for induction of pluripotent stem cell
- Application of clinical genetics in prenatal diagnosis
- Recurrent implantation failure
- Thalassaemia blood biochemical detection technology
- Theory and methods of PCR and hybridization

- Next generation sequencing in genetic disease testing
- Non invasive prenatal diagnosis of thalassaemia in first trimester
- Sperm function
- Common diseases which lead to defects in sperm function
- Single cell PCR and FISH

- Pathogenesis and clinical diagnosis of thalassaemia
- Endometriosis in infertility
- Prenatal diagnosis of chromosome disease
- Progesterone in early pregnancy
- Cardiac morphogenesis
- Design of IVF lab
- Trainees present research progress of their countries

The design and construction of IVF lab

Development of IVF

- The first successful birth of a test tube baby, Louise Brown, occurred in Britain, 1978
- In 1990, there were only 95 thousand test tube babies over the world
- Number of test tube babies increased to nearly 1 million in 2000, 2.5 million in 2007
- IVF has contributed to approximately 5 million births till 2013

- According to American Society for Reproductive Medicine, about 1% of US infants are conceived through IVF
- About 100 thousand test tube babies were born in China while women who need assisted reproduction are about 3 million
- IVF technology has become the mainstream choice of infertility treatment and the most common and most effective type of ART to help women become pregnant

Necessity and importance of lab construction

- IVF is a technology which relates to Obstetrics and Gynaecology, andrology, reproductive physiology, genetics, embryology, developmental biology and other disciplines
- IVF demands multidisciplinary cooperation and technology support

- IVF is a special technique to make fertilization process and formation of early embryos in vitro under artificial control
- Stable and suitable environment is the basic requirement for the normal development of human oocytes and embryos

- IVF labs aim to create an artificial maternal environment which is similar to uterus as far as possible, it is different from other types of clean room (temperature, humidity, etc.)
- Therefore in order to protect oocyte and embryo and to ensure their development potential to create an ideal environment is significant

Main idea of lab design

- According to the conditions of the site
 1. Reasonable layout, fluent and clear process
 2. Clear distinction between clean area and washing area with complete facilities
 3. Construction technology, equipment and materials are advanced, environmental protective, highly reliable, practical
 4. Parameter design could create suitable culture environment
 5. Economical and affordable investment cost

6. The project must comply with the relevant national regulation

Regulation on area of rooms	
Egg sampling room	$\geq 25 \text{ m}^2$
Transplantation room	$\geq 20 \text{ m}^2$
Sperm processing room	$\geq 10 \text{ m}^2$
Embryo culture room	$\geq 30 \text{ m}^2$

The evaluation of lab design construction

- Common acceptance: air dust content, colony (average of settlement), air volume, wind speed, indoor temperature, indoor humidity, noise and illumination
- Laboratory TVOC (total volatile organic compounds) testing
- Type of detection: toluene and xylene, the volatile two chlorobenzene, ethylbenzene, styrene, formaldehyde, acetaldehyde and other organic compounds

- The content of TOVC in indoor air is no more than 0.2 mmg/m^3

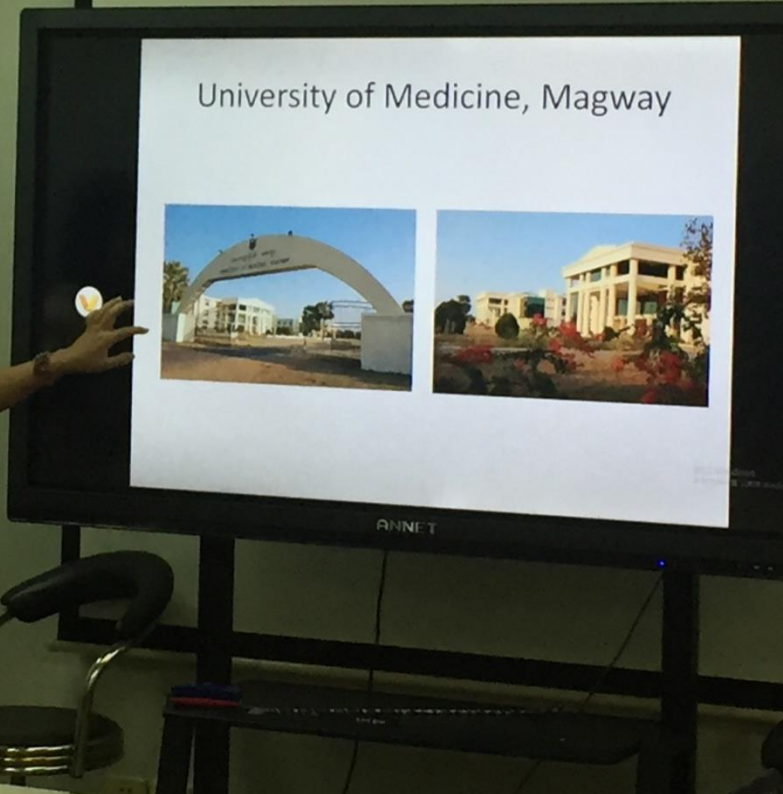
(In China standard of TOVC in common building is below 0.5 mmg/m^3)

Dr Yi Zhang, vice professor of obstetrics and gynaecology department of affiliated hospital of Hainan medical university



Dr Yanlin Ma, AP of O&G department of Hainan medical university



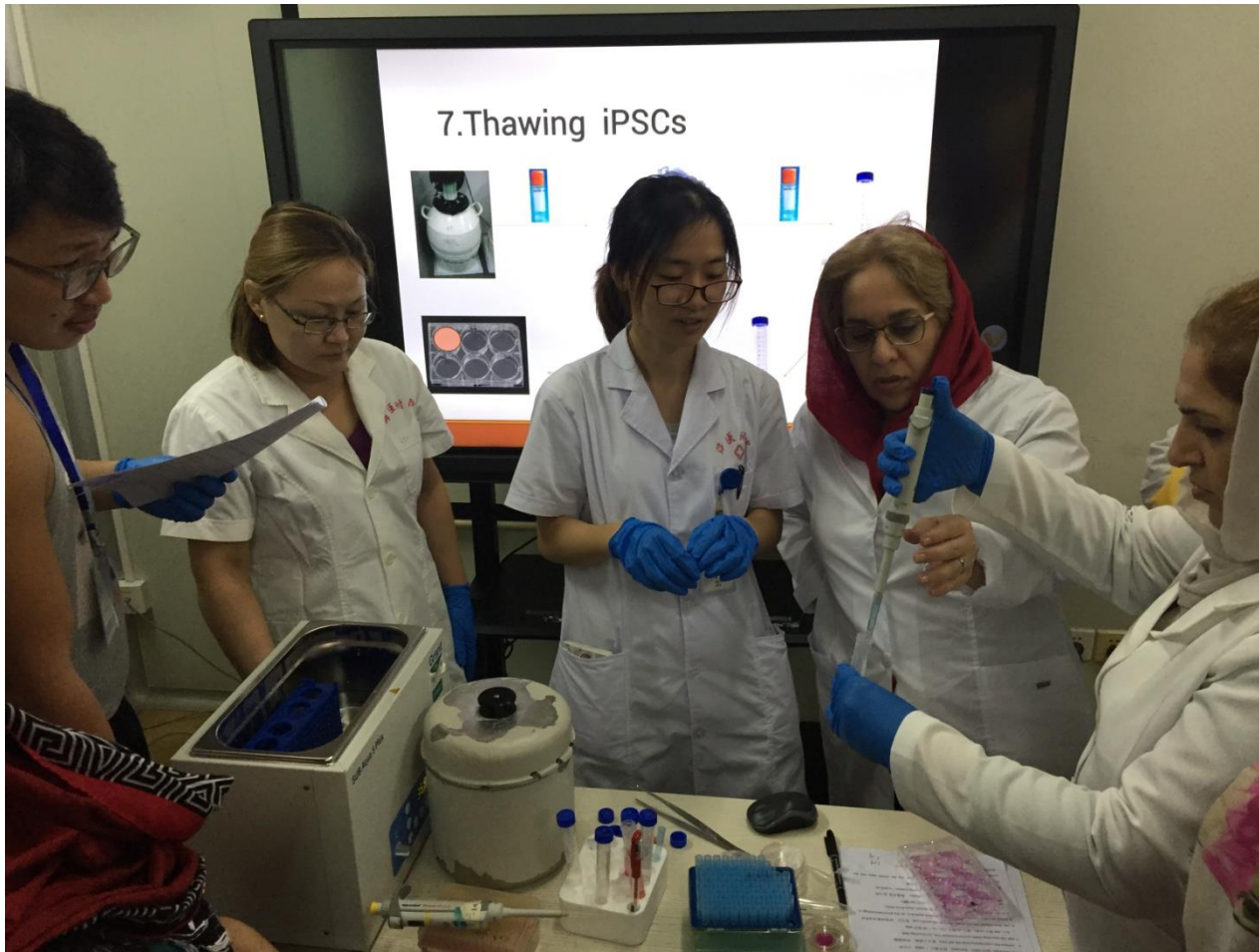


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Practical session

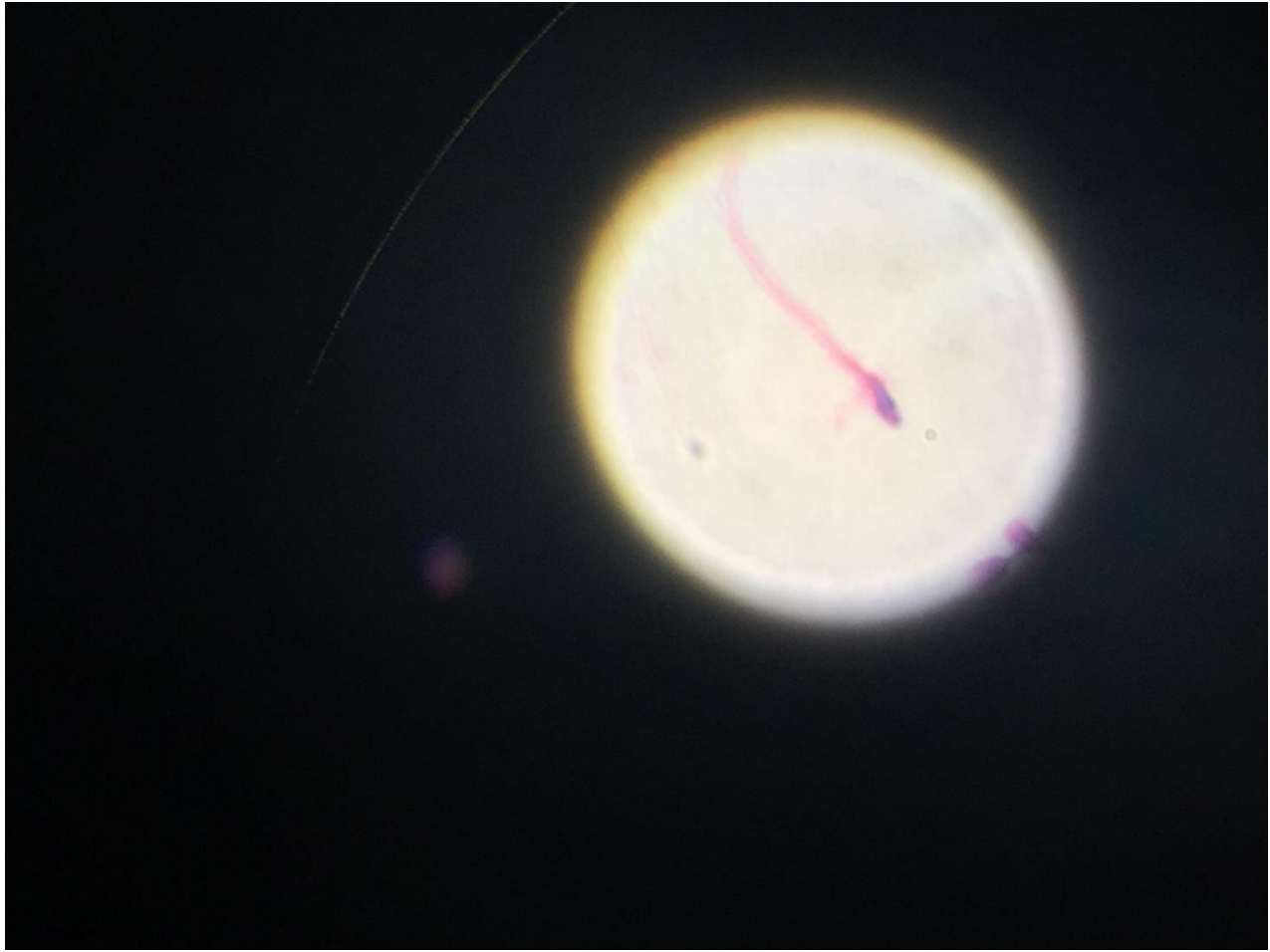
- Operation and demonstration of ES and iPS cell culture
- Erythrocyte osmotic fragility test
- Beta thalassaemia genotyping by PCR reverse dot blot assay
- Semen analysis and sperm morphology analysis



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Visit

- Hainan reproductive medicine center
- Department of Chinese traditional medicine
- Department of fertility
- Hainan stem cell bank
- Hainan medical university
- King Med diagnostic center















2017年11月01日 11:27 星期三

1208 病房

病床号: 15床 16床

科室主任: 黎明鸾 护 士 长: 谢春丽
主管医生: 赵星 责任护士: 吴玉女

SRC 78
FX-3012

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4 5 6 护理中
7 8 9 确认
▼ 0 ▲ 退出

接听
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话筒 2









Conference

- PREBIC (Preterm Birth International Collaborative) 2017 scientific meeting



Touring

- Nanshan Moutain in Sanya
- Tianyahaijiao in Sanya
- Anti-aging Center in Bo'ao and Lecheng Center









Social activity

- Tug-of-war with staff of department of O & G
- Social activities with staff of reproductive medicine center









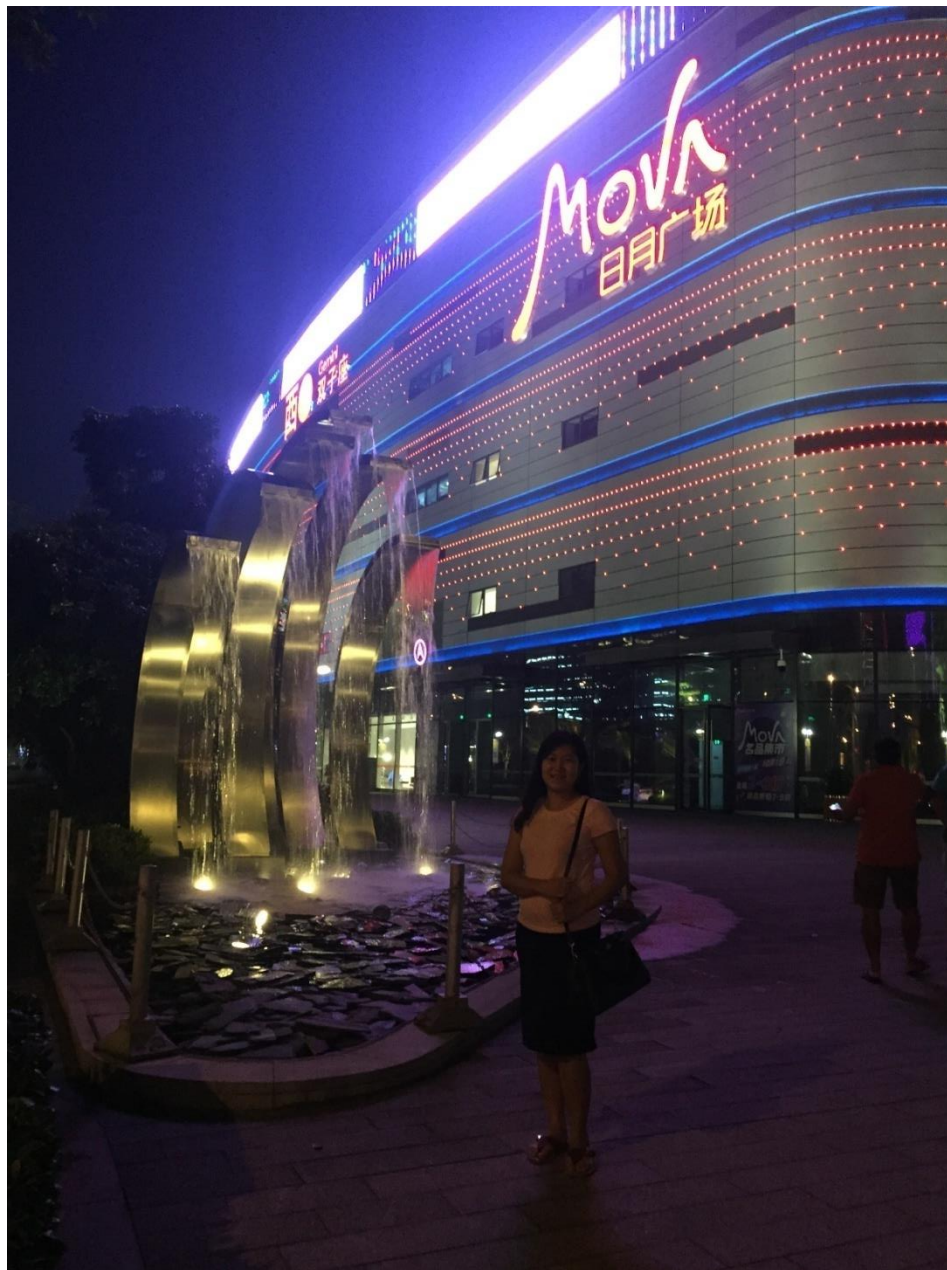
Closing ceremony







Shopping











Thank You All!



Team is the buildup of heart not that of people

人在一起叫聚会 ❤️ 心在一起叫团队