



  
SingHealth **DukeNUS**  
ACADEMIC MEDICAL CENTRE

**OBSTETRICS &  
GYNAECOLOGY**



KK Women's and  
Children's Hospital  
SingHealth



Singapore  
General Hospital  
SingHealth

# Advancing Together in Academic Medicine

SingHealth Duke-NUS OBGYN  
Academic Clinical Programme  
Progress Report 2017



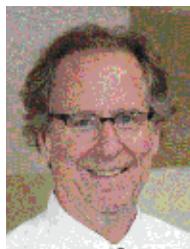
**Prof Ivy Ng**  
Group CEO,  
SingHealth

In this sixth issue of the SingHealth Duke-NUS Obstetrics and Gynaecology Academic Clinical Programme (OBGYN ACP) Progress Booklet, I wish to congratulate the ACP on their many successes since their launch in 2012. As we look back at the many achievements of OBGYN ACP last year, the most notable is the establishment of the Benjamin Henry Sheares Professorship in Obstetrics and Gynaecology. The professorship, named after our second president of the Republic of Singapore and Singapore's father of modern obstetrics and gynaecology, will also be our first O&G Professorship in Duke-NUS Medical School.

I would also like to commend the programme's strong performance in the residency and education front. During the 6th SingHealth Residency in SingHealth Excels (RISE) Awards 2017, the programme bagged a total of 13 awards including the prestigious Best ACGME-I Residency Programme. Separately, Dr Tan Eng Loy from OBGYN ACP was also awarded the Outstanding Educator Award at the SingHealth Duke-NUS Academic Medicine Education Institute (AM•EI) Golden Apple Awards 2017.

On the clinical front, the programme has also supported our nation in the war on diabetes. In January 2018, the OBGYN ACP and the College of Obstetricians and Gynaecologists, Singapore collaborated to organize the Inaugural Singapore Diabetes in Pregnancy Conference & Integrated Platform for Research in Advancing Metabolic Health Outcomes (IPRAMHO) Asia Meeting and launched the first guidelines for management of Gestational Diabetes Mellitus (GDM).

The journey of Academic Medicine has been both exciting and challenging, as we have continued to challenge medical boundaries and chart new horizons through education, research and innovation, and be at the forefront of enhancing quality care and service for our patients.



**Prof Thomas Coffman**  
Dean,  
Duke-NUS  
Medical School

within the programme.

This annual progress report by the Obstetrics and Gynaecology Academic Clinical Programme (OBGYN ACP) documents the programme's many achievements over the past year. I would first like to congratulate the SingHealth OBGYN Residency on receiving the award for the Best ACGME-I Programme, recognizing their exceptional performance in post-graduate training. The OBGYN ACP has always been at the forefront of medical education in nurturing new generations of aspiring healthcare professionals and empowering them to shape the future of healthcare. This award was a testament to the continuing strong education culture within the programme.

In the area of research, I am happy to recognize Asst Prof Mahesh Sangrithi, who recently received a Clinician Scientist Award (CSA) from the National Medical Research Council (NMRC). In addition, the programme received a five-million dollar centre grant from the National Medical Research Council in June 2017 to build core research capabilities for studying metabolic diseases, as the Integrated Platform for Research in Advancing Metabolic Health Outcomes (IPRAMHO) of Women and Children. This was a unique centre grant proposal to support primary care practitioners collaborating with a tertiary hospital to promote metabolic health of women and children.

OBGYN ACP continues to excel in its triple mission of providing cutting edge clinical care, carrying out impactful research, and serving as an important provider of undergraduate, graduate and postgraduate training for medical, nursing and allied health professionals. Their accomplishments have contributed to the strong foundation of our broader Academic Medicine efforts in the SingHealth Duke-NUS Academic Medical Centre.

Congratulations to all of the faculty and staff of the OBGYN ACP on another fruitful and productive year!



**Adj Assoc Prof Bernard Chern Su Min**  
Academic Chair  
SingHealth Duke-NUS  
OBGYN Academic  
Clinical Programme

We have made tremendous progress in advancing our Academic Medicine Vision as we harness the collective strengths of both KKH Division of O&G and SGH Department of O&G. I am pleased to announce the establishment of the first Professorship in O&G in SingHealth Duke-NUS, which will aim to honour Professor Benjamin Henry Sheares and his contribution to the early days of O&G in Singapore. Our OBGYN ACP has been involved in a spectrum of basic, translational and clinical research in fetal stem cell, endometriosis, biomarkers, exosomes, and extracellular vesicles. I am pleased to note that we have also set up our first O&G research wet lab in Academia.

SingHealth Duke-NUS OBGYN ACP is also pleased to announce new leadership appointments; Adj Assoc Prof Tan Lay Kok, Vice Chair Clinical, Adj Assoc Prof Tan Heng Hao, Deputy Vice Chair Clinical, and Adj Assoc Prof Timothy Lim Yong Kuei, Deputy Vice Chair Research, with effect from 1 October 2016. The appointment of the Clinical leads will help spearhead various cross-institutional clinical initiatives aimed at improving quality of women's care and delivering new models of care. The Deputy Vice Chair Research will continue to play an integral role in facilitating and overseeing research initiatives, allowing OBGYN ACP to be established as a central hub for clinical and translational research.

We have achieved excellence and recognition in our SingHealth OBGYN Residency Programme, attaining the top-ranked programme for two consecutive years, with our faculty presented RISE Awards annually for their exemplary contributions towards structuring of the programme and commitment towards nurturing future generations of doctors.

OBGYN ACP has been playing the central role in championing remarkable activities that allow us to be the leading O&G health-care provider in Singapore. We have recruited clinician scientists, Prof Jim Zhang Jun and Dr Mahesh Sangrithi, who will be embarking on impactful research projects fostering collaborations with other institutions and partners, allowing us to make significant advancements in the O&G specialty. We will continue to build the three pillars of Education, Research and Clinical to improve patients' lives and deliver the highest standard of care to them.

## SHARED MISSION

The OBGYN ACP has a mission to improve lives of patients through excellent clinical care, education and research. To fulfil this mission, team work is paramount as no single individual or department can work alone. The OBGYN ACP comprises clinicians from KK Women's and Children's Hospital and Singapore General Hospital. To catalyse cross-fertilization of ideas and sharing of resources, collaborations are constantly forged between institutions to achieve our goals in Academic Medicine.

“ To deliver excellent O&G Services, Education and Research in order to ensure world class clinical outcomes. ”





**ADVISOR  
OBGYN ACP  
Council**  
Adj Prof  
Ho Tew Hong



**ADVISOR  
OBGYN ACP  
Council**  
Prof Yeo Seow  
Heong George



**ADVISOR  
OBGYN ACP  
Council**  
Adj Prof  
Tan Kok Hian



**ACADEMIC CHAIR**  
Adj Assoc Prof Chern Su Min Bernard



**ACADEMIC DEPUTY CHAIR**  
Adj Assoc Prof Tan Hak Koon

**DIVISION OF O&G (KKH)**  
**Chairman**  
Adj Assoc Prof Chern Su Min Bernard  
**Deputy Chairman**  
Adj Assoc Prof Tan Heng Hao  
Adj Assoc Prof Lim Yong Kuei Timothy  
**Chair of Obstetrics**  
Prof Yeo Seow Heong George  
**Chair of Gynaecology**  
Adj Prof Ho Tew Hong



**ACADEMIC VICE CHAIR,  
RESEARCH**  
Adj Assoc Prof  
Lim Yong Kuei Timothy



**ACADEMIC VICE CHAIR,  
EDUCATION**  
Adj Assoc Prof Tan Lay Kok



**ACADEMIC VICE CHAIR,  
CLINICAL**  
Adj Assoc Prof Yong Tze Tein

**DEPARTMENT OF O&G (SGH)**  
**Head of Department**  
Adj Assoc Prof Tan Hak Koon  
**Advisor**  
Adj Prof Ho Tew Hong



**Department of O&G**  
Adj Assoc Prof  
Tan Thiam Chye



**Obstetrics Research**  
Prof Yeo Seow  
Heong George



**ACADEMIC DEPUTY  
VICE CHAIR, EDUCATION**  
Adj Assoc Prof  
Tee Chee Seng John



**ACADEMIC DEPUTY  
VICE CHAIR, CLINICAL**  
Adj Assoc Prof Tan Heng Hao



**Reproductive Medicine**  
Adj Assoc Prof Yu Su Ling



**Department of  
Urogynaecology**  
Adj Assoc Prof  
Han How Chuan



**Integrated Platform for Research  
in Advancing Metabolic Health Outcomes  
of Women and Children (IPRAMHO)**  
Adj Prof Tan Kok Hian

**SingHealth OBGYN Residency Programme**  
Programme Director  
Adj Asst Prof Manisha Mathur

**Patient Safety, Care Transition & Supervision**  
Chair (KKH) Adj Assoc Prof Tan Thiam Chye  
Co-Chair (SGH) Adj Assoc Prof Devendra Kanagalingam



**Gynae Oncology**  
Adj Prof Ho Tew Hong



**Department of  
Maternal Fetal Medicine**  
Adj Asst Prof Shephali Tagore



**Fetal Stem Cells**  
Assoc Prof  
Jerry Chan

**SingHealth OBGYN Residency Programme**  
Associate Programme Director  
Adj Assoc Prof Tan Lay Kok (SGH)  
Associate Programme Director  
Adj Asst Prof Jessie Phoon Wai Leng (KKH)

**Healthcare Quality & Professionalism**  
Chair (KKH) Adj Asst Prof Shephali Tagore  
Co-Chair (SGH) Adj Asst Prof Tan Eng Loy



**Maternal Fetal Medicine**  
Adj Assoc Prof Tan Lay Kok



**Department of  
Gynae Oncology**  
Adj Assoc Prof  
Lim Yong Kuei Timothy



**Reproductive Biology &  
Stem Cells**  
Asst Prof  
Mahesh Sangrithi

**SingHealth Postgraduate Year 1 (PGY1)**  
Adj Asst Prof Suzanna Sulaiman (KKH)  
Adj Asst Prof Jason Lim Shau Kng (SGH)

**NUS Yong Loo Lin School of Medicine OBGYN Clerkship**  
Program Coordinator Adj Asst Prof Khoo Chong Kiat (KKH)  
Deputy Program Coordinator Adj Asst Prof Sonali Prashant Chonkar  
Program Coordinator Adj Assoc Prof Devendra Kanagalingam (SGH)  
Deputy Program Coordinator Adj Asst Prof Manisha Mathur (KKH)  
Deputy Program Coordinator Adj Assoc Prof Yong Tze Tein (SGH)



**Urogynaecology**  
Adj Asst Prof Chua Hong Liang



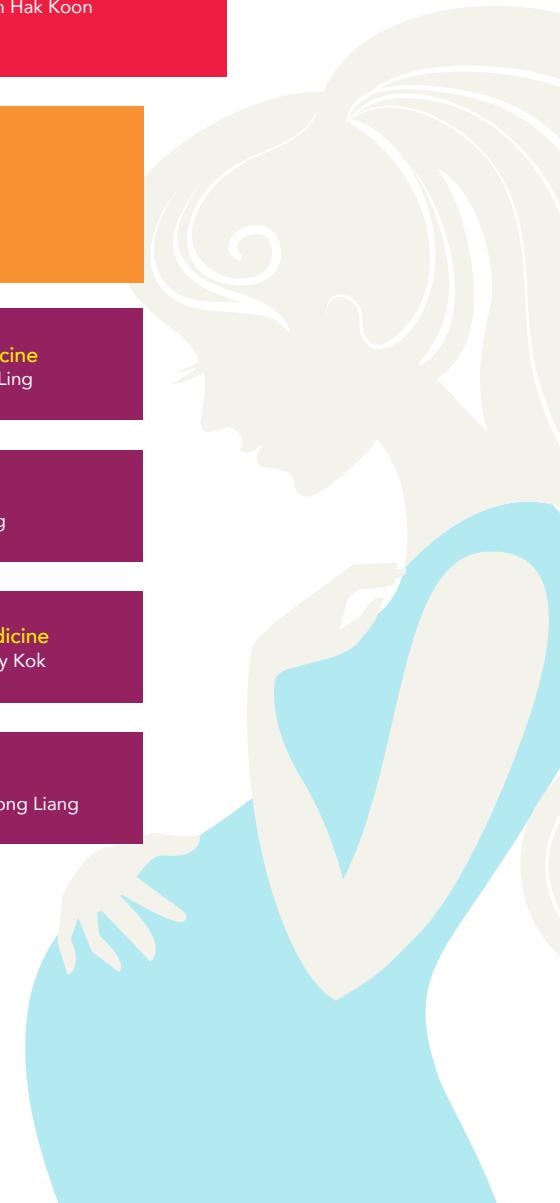
**Department of  
Reproductive Medicine**  
Adj Assoc Prof  
Tan Heng Hao



**Endometriosis**  
Asst Prof  
Lee Yie Hou

**Duke-NUS Medical School OBGYN Clerkship**  
Program Coordinator Adj Assoc Prof Tan Thiam Chye  
Deputy Program Coordinator Adj Asst Prof Sonali Prashant Chonkar

**Lee Kong Chian School of Medicine OBGYN Clerkship**  
Clerkship Lead Adj Assoc Prof Tan Heng Hao  
Deputy Clerkship Lead Adj Senior Lecturer Kathirvel Rajeswari



# 01 JANUARY

**12 to 15 January**  
MRCOG Part 2 and Part 3 Examination Course

**16 January**  
OBGYN ACP Workplan & Budget 2017

**12 to 13 January**  
Inaugural Singapore Diabetes in Pregnancy Conference 2018 & Integrated Platform for Research in Advancing Metabolic Health Outcomes of Women and Children (IPRAMHO) Asia Meeting

**19 January**  
OBSTETRICS<sup>Core</sup> Course (OBStetric TEam TRaining In Core Skills)

# 02 FEBRUARY

**3 February**  
Obstetrics Anal Sphincter Injuries (OASIS) hands-on workshop

# 06 JUNE

**28 to 30 June**  
Regional Congress of APAGE 2018: Anatomy and Innovation: Minimally Invasive Surgeries in Reproductive Health – Challenges and Strategies

# 07 JULY

**04 to 06 July**  
OBGYN Residency Year One Orientation

**07 July**  
SingHealth Residency Open House

# 08 AUGUST

**04 August**  
Residency in SingHealth Excels (RiSE) Awards Ceremony 2018

**10 August**  
13th Gynaecological & Early Pregnancy Ultrasound Workshop

# 03 MARCH

**16 to 17 March**  
3rd Basic Colposcopy and Management of Pre-Invasive Disease of the Genital Tract, in Conjunction with SCCPS

**21 March**  
Intrapartum Fetal Surveillance Masterclass (Pre-congress Workshop for RCOG 2018)

**21 March**  
Colposcopy & Pre-invasive Treatment Hands-on Workshop (Pre-congress Workshop for RCOG 2018)

**21 March**  
Advanced Laparoscopy Skills Workshop (Pre-congress Workshop for RCOG 2018)

**21 March**  
Hysteroscopy Masterclass Workshop (Pre-congress Workshop for RCOG 2018)

**21 March**  
Obstetrics Team Training in Core Skills (Pre-congress Workshop for RCOG 2018)

**21 March**  
Instrumental Delivery Workshop (Pre-congress Workshop for RCOG 2018)

**21 March**  
12th Gynaecological & Early Pregnancy Ultrasound Workshop (Pre-congress Workshop for RCOG 2018)

**22 to 24 March**  
RCOG World Congress 2018, Singapore

**25 March**  
Essential O&G Ultrasound Training (Post-congress Workshop for RCOG 2018)

**21 March**  
Instrumental Delivery Workshop (Pre-congress Workshop for RCOG 2018)

OBGYN ACP Pitch for Grant Review Session\*

# 09 SEPTEMBER

**14 September**  
SingHealth Residency Graduation and Best Junior Doctors Awards

**17 September**  
Public Forum: Reproductive Medicine – Theme\*

**21 to 22 September**  
SingHealth Duke-NUS Scientific Congress 2018

**28 September**  
6th Singhealth Duke-NUS OBGYN ACP Education Day

**29 September**  
CaSH: Contraception and Sexual Health Workshop

# 10 OCTOBER

**16 October**  
In Conversation with SingHealth – Paving your journey to Residency

**16 October**  
Public Forum: Menopause – Breezing through Menopause (English & Chinese)

**20 to 24 October**  
28th World Congress on Ultrasound in Obstetrics and Gynaecology, Singapore

**26 October**  
4th SingHealth Duke-NUS Clinical Practice Improvement Day

# 11 NOVEMBER

**3 November**  
6th SingHealth Duke-NUS OBGYN ACP Research Day

**10 November**  
Great Eastern Women's Run 2018 in support of SingHealth Duke-NUS OBGYN ACP

**24 November**  
Residency Games Day

# 04 APRIL

**8 April**  
SingHealth Duke-NUS OBGYN ACP Retreat

**10 to 13 April**  
Academic Medicine Advisory Council (AMAC) 2018

# 05 MAY

**10 to 12 May**  
Starting Out on Assisted Reproduction (SOAR)

**20 May**  
Inaugural Early Pregnancy and Gynaecology Ultrasound Course (CORPUS)

**26 May**  
OBSTETRICS (OBStetric TEam TRaining In Core Skills) Course

# 12 DECEMBER

**7 December**  
OBSTETRICS<sup>Core</sup> Course (OBStetric TEam TRaining In Core Skills)

### Benjamin Henry Sheares Professorship in O&G

In December 2017, Dr Joseph Sheares, Constance Sheares and Susanna Sheares (widow of Edwin Sheares) met with Prof Tan Kok Hian and Mr Melvin Tan from the KKH Development Office. The Sheares family donated \$1.5 million to establish the first Professorship under the SingHealth Duke-NUS OBGYN Academic Clinical Programme.

It was the Sheares family's long standing wish to help establish a Chair in Obstetrics and Gynaecology in the name of their father Benjamin Henry Sheares, who had pioneered in Singapore and spent an illustrious career furthering the clinical and research aspects of these two specialties in KKH and NUS.

The Benjamin Henry Sheares Professorship in Obstetrics and Gynaecology will enable the outstanding recipient to address critical academic challenges (research, education, clinical) in the fields of obstetrics and gynaecology and further raise the academic standards of Obstetrics & Gynaecology in Singapore and beyond.



(From left to right) Mr Melvin Tan, Dr Joseph Sheares, Prof Tan Kok Hian, Mrs Constance Sheares and Mrs Susanna Sheares

### 8 April 2017 – SingHealth Duke-NUS OBGYN ACP Retreat

Held annually, the retreat provides a platform for discussing the progress and accomplishments of OBGYN ACP in the past year. The highlight of the retreat were the discussions for the Research, Education and Clinical domains, led the three respective Vice Chairs. The retreat was productive and enjoyable, as we explored various ideas to help Academic Medicine in the three domains to move forward and thrive.



Retreat group photo taken at Mount Faber Peak Ballroom.

### 12-13 January 2018 – Inaugural SDIP 2018 & IPRAMHO Asia Meeting

The Inaugural Singapore Diabetes in Pregnancy Conference (SDIP) 2018 & Integrated Platform for Research in Advancing Metabolic Health Outcomes of Women and Children (IPRAMHO) Asia Meeting was attended by over 200 local and overseas delegates. This initiative marks the official launch of the Gestational Diabetes (GDM) guidelines by the GDM committee members chaired by Prof Tan Kok Hian, and comprising members from the College of Obstetricians and Gynaecologists, Singapore (COGS). Guest-of-Honour Dr Amy Khor, Senior Minister of State for Health, graced the launch of the guidelines.

This meeting, led by SingHealth Duke-NUS OBGYN ACP, brought together clinicians, nurses and health professionals working on GDM, obesity and metabolic diseases. Several key organisations including COGS, Obstetrical & Gynaecological Society of Singapore (OGSS), the Perinatal Society of Singapore (PSS), Asia-Oceania Federation of Obstetrics & Gynaecology (AFOG) and the NMRC Collaborative Centre Grant – IPRAMHO study group, SingHealth Polyclinics and National Health Group Polyclinics have participated in the meeting discussions. The meeting concluded with the initiation of an international research collaboration looking into GDM involving several hospitals in the region and beyond.



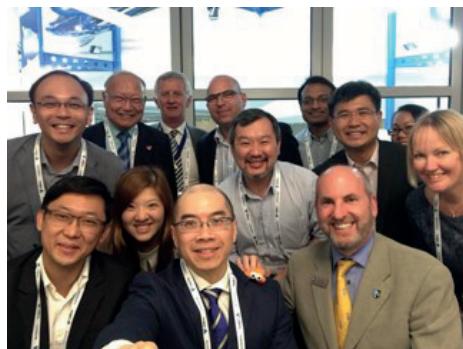
### 21 - 24 March 2018 - RCOG World Congress 2018

The Royal College of Obstetrics & Gynaecology (RCOG), UK, held their world congress in Singapore in March 2018, organized by Obstetrical & Gynaecological Society of Singapore (OGSS) and RCOG. Singapore was the first country outside the UK to host RCOG's first international scientific meeting in 1991, and was once again honoured to host the prestigious international RCOG world congress in 2018. With over 3,100 participants from 82 countries, the congress was a huge success.

Our very own OBGYN ACP faculty were involved in the organization of this event, with Assoc Prof Timothy Lim Yong Kuei as the Chairman of the local organizing committee. Dr Manisha Mathur was the Scientific Subcomm Chair, with Dr Serene Thain as her Co-Chair. Local organizing committee members included Prof Ho Tew Hong, Prof Tan Kok Hian, A/Prof Bernard Chern and A/Prof Tan Hak Koon. The advisors comprised Prof Charles Ng, A/Prof Devendra Kanagalingam and A/Prof Tan Lay Kok.



Congress Chairman A/Prof Timothy Lim (second from right) and organizing committee with Guest-of-Honour, Health Minister Gan Kim Yong



Organizing Committee of the RCOG World Congress 2018.



Chairman of the local organizing committee, A/Prof Timothy Lim



Faculty and delegates at the pre-congress Colposcopy and Pre-Invasive Treatment workshop.



Faculty members Dr Karuna and Dr Ann Wright with delegates during the hands-on session of the pre-congress Instrumental Delivery workshop.

### RCOG World Congress 2018 Workshops

Eight of the pre-congress/ post-congress workshops were helmed by O&G doctors from our OBGYN ACP (SGH and KKH).

#### (i) Intrapartum Fetal Surveillance Masterclass

With 69 participants, the workshop conducted by Assoc Prof Devendra S/O Kanagalingam and Professor Sir Sabaratnam Arulkumaran provided participants with a comprehensive summary of CTG interpretation and pitfalls. It comprised lectures, review of clinical scenarios and CTGs, and quizzes.

#### (ii) Obstetric Team Training in Core Skills

The workshop led by Dr Tan Eng Loy aimed to improve awareness of obstetric emergencies and reduce preventable harm to mothers and their babies. It consisted of interactive drills and hands-on workshops focused on practical skills, teamwork and decision-making in simulated obstetric emergency situations, and was attended by 25 delegates.

#### (ii) Advanced Laparoscopy Skills and Hysteroscopy Masterclass Workshops

Led by Assoc Prof Bernard Chern, these 2 workshops provided intensive hands-on supervised training in Laparoscopy and Hysteroscopy respectively. The laparoscopy workshop focused on dissection techniques, suturing in simple/complex surgeries, haemostasis and managing surgical complications laparoscopically, while the hysteroscopy workshop provided essential theory and a comprehensive introduction to hysteroscopic techniques.

#### (iv) Colposcopy and Pre-Invasive Treatment Hands-on Workshop

The workshop, headed by Assoc Prof Timothy Lim, aimed at equipping the participants with an advanced understanding of colposcopy and the management of cervical and lower genital tract. With 31 delegates attending, it consisted of didactic lectures exploring topics like the role of HPV Testing in screening, management of preinvasive disease, and principles of electrosurgery and laser.

#### (v) 12th Gynaecological & Early Pregnancy Ultrasound Workshop

The workshop led by Dr Tan Wei Ching focused on the understanding of ultrasound physics, technology and basic skills to perform and interpret the images with emphasis on first-trimester pregnancy failure. Attended by 25 delegates, it comprised lecture, videos, live demonstrations and a hands-on session.

#### (vi) Instrumental Delivery Workshop

Led by Dr Manisha Mathur, this was a half-day workshop about instrumental vaginal delivery, aimed at obstetric trainees and obstetricians wishing to update their skills. The workshop consisted of brief lectures followed by hands-on practice on simulation models and was attended by 18 participants.

#### (vii) Essential O&G Ultrasound Training

Attended by 52 delegates, the workshop headed by Prof George Yeo enhanced skills in operating ultrasound machines as well as in demonstrating basic practical proficiency in performing and interpreting various obstetrical ultrasound scans in pregnancy. The workshop comprised lectures, MCQ tests and a hands-on session.

17 January 2017 – SingHealth Quality Service Award 2017

The Singapore Health Quality Service Award (SHQSA), organized by the SingHealth Duke-NUS Academic Medical Centre (AMC) is the largest dedicated platform that recognizes the efforts of healthcare professionals who have delivered exemplary service and quality care to patients. Many of our OBGYN faculty were honoured for their outstanding contributions to healthcare at the seventh annual award.

Star Awardees	Gold Awardees	Silver Awardees
Adj Assoc Prof Philip Yam Kwai Lam Adj Assoc Prof Tan Heng Hao Assoc Prof Jerry Chan Kok Yen Adj Asst Prof Veronique Celine Viardot-Foucault Adj Asst Prof Jessie Phoon Wai Leng	Adj Assoc Prof Lim Yong Kuei Timothy Adj Asst Prof Tan Vic Khi June Adj Asst Prof Wong Wai Loong Adj Asst Prof Wei Wei Wee-Steklyy Dr leera Madan Aggarwal Dr Shahul Hameed Mohamed Siraj	Adj Asst Prof Shephali Tagore Dr Mariamma George Adj Asst Prof Janice Chin Pui See Adj Asst Prof Lim Sheow Lei Adj Asst Prof Tan Kai Lit Adj Asst Prof Ann Margaret Wright Adj Asst Prof Rajeswari Kathirvel Adj Instructor Komal Tewani Girish Adj Asst Prof Sonali Chonkar Prashant Dr Boricha Yash Bhanji

24 January 2017 – SingHealth Doctors and Dentists Long Service Award 2017

The SingHealth Doctors and Dentists Long Service Award honours doctors who have dedicated 10 to 50 years of their lives to patient care in SingHealth institutions. The conferment of the title of Emeritus Consultant to Prof Yeo Seow Hong George was celebrated. The Long Service Award (50 years) was presented to Adj Prof Ng Sen Ark Charles, while the Long Service award (10 years) was given to Adj Asst Prof Jessie Phoon Wai Leng, Dr leera Aggarwal and Dr Freda Khoo Wan Yu.



Prof Yeo Seow Hong George being conferred the title of Emeritus Consultant. (From left to right), Prof Kenneth Kwek Yung Chiang, CEO, SGH; Prof Ivy Ng, GCEO, SingHealth; Prof Yeo Seow Hong George; Mr Peter Seah, Chairman, SingHealth



Adj Prof Ng Sen Ark Charles receiving the Long Service Award (50 years).



Adj Prof Ng Sen Ark Charles (right) receiving the Distinguished Lifetime Achievement Award from Mr Chan Heng Kee, Permanent Secretary, Ministry of Health



Assoc Prof Bernard Chern Su Min (right) receiving the GCEO Excellence Outstanding Educator Award from Prof Ivy Ng, GCEO, SingHealth

19 May 2017 – SingHealth Excellence Awards 2017

The 7th SingHealth Excellence Awards held on 19 May 2017 at Regent Singapore, recognized the exemplary contributions of SingHealth employees to healthcare leadership, education, research and administration during the past year. This year, Adj Prof Charles Ng, Emeritus Consultant in SGH, received the Distinguished Lifetime Achievement Award, while Assoc Prof Bernard Chern was awarded the GCEO Excellence Award (Outstanding Educator Award).

10 August 2017 – 6th SingHealth Residency in SingHealth Excels! (RiSE) Awards 2017

The SingHealth Residency in SingHealth Excels! (RiSE) Awards celebrate the achievements of top-performing residency programs, faculty and residents, as well as showcase their excellence in medical education. Our OBGYN faculty and residents were awarded a total of 13 awards this year, for their exemplary academic and clinical contributions.

Best ACGME-I Program Award

The most prestigious award honours the top-performing program according to the ACGME-I survey. SingHealth OBGYN Residency Programme received the award from Prof Ivy Ng, Group CEO.



Best ACGME-I Program Award: Obstetrics & Gynaecology Residency Program

Faculty Achievement

The Outstanding Faculty Award recognizes faculty for the dedication and time committed to developing and bringing out the best in residents. Assoc Prof Yam Kwai Lam Philip, Adj Asst Prof Jessie Phoon Wai Leng and Dr Wong Wai Loong were recipients of the award. The Partners in Education Award is presented to visiting faculty who tirelessly impart their knowledge and expertise, and Dr Quek Swee Chong was a recipient this year.



Outstanding Faculty Award: Dr Jessie Phoon and Assoc Prof Philip Yam receiving the award from Dr Lee Chien Earn (Absent: Dr Wong Wai Loong)

Resident Achievement

The Outstanding Resident Award is an accolade conferred on the top 5% of residents from their respective cohorts, in recognition of their exemplary clinical and academic performance. The Inspiring Resident Educator Award is presented to residents who have made exceptional contributions and demonstrated dedication towards mentoring and guiding their peers and juniors. The Resident Committee Appreciation Award recognizes the numerous contributions resident representatives have made in the development of programs for their peers and juniors.



Outstanding Resident Award: Dr Ang Xiaohong Joella, Dr Ho Weng Yan, Dr Li Mingyue and Dr Poo Zi Xi receiving the award from Prof Ng Wai Hoe (Absent: Dr Qi Maili, Dr Ng Qiu Ju)



Inspiring Resident Educator Award: Dr Kho Chye Lee receiving the award from Prof Chay Oh Moh (Absent: Dr Qi Maili)



Resident Committee Appreciation Award: Dr Liu Jia Yi (3rd from right) Presented by Dr Melvin Chua.

**29 September 2017 – AM•EI Golden Apple Awards 2017**

The Outstanding Educator Award recognizes and commends the exceptional efforts of educators who have demonstrated strong commitment and dedication to excellence in the nurturing of the next generation of healthcare professionals. In 2017, Adj Asst Prof Tan Eng Loy received the stellar commendation.



**National Day Awards 2017 – Dr Sadhana Nadarajah (Long Service Medal Award)**

The National Day Awards are a way of recognizing various types of merit and service to Singapore. A total of 262 individuals from the SingHealth Duke-NUS Academic Medical Centre (AMC) received National Day Awards this year in recognition of their exemplary contributions to the AMC, patients and Singapore's success. For SingHealth O&G in 2017, Dr Sadhana Nadarajah received the Long Service Medal Award.



**3 Nov 2017 – NUS Dean's Award for Teaching Excellence AY16/17**

The Dean's Appreciation for Clinical Teachers was held on 3 Nov 2017, 5.30pm at the KKH Auditorium. Eight of our O&G doctors received awards to recognize their exceptional commitment to academic education in teaching and mentoring the medical students. Adj Assoc Prof Tan Thiam Chye and Adj Asst Prof Tan Wei Ching received the Special Recognition Award, a commendation that recognizes outstanding role models as nominated by graduating students. Adj Assoc Prof Tan Lay Kok, Adj Assoc Prof Devendra Kanagalingam, Adj Asst Prof Khoo Chong Kiat and Dr leera Aggarwal were awarded the NUS Dean's Award for Teaching Excellence AY16/17, which recognizes passionate faculty who make significant contributions beyond the school. Dr Jacqueline Jung and Dr Ku Chee Wai received the AY16/17 Junior Doctor Teaching Award, an award commending junior doctors for the exceptional teaching of medical students.



**Special Recognition Award:**  
(From left to right)  
Adj Assoc Prof Tan Thiam Chye and Adj Asst Prof Tan Wei Ching



**NUS Dean's Award for Teaching Excellence AY16/17 Award:**  
(Top row) Adj Assoc Prof Tan Lay Kok, Adj Assoc Prof Devendra S/O Kanagalingam



**AY16/17 Junior Doctor Teaching Award:**  
(From left to right)  
Dr Jacqueline Jung, Dr Ku Chee Wai



(Bottom row) Adj Asst Prof Khoo Chong Kiat, Dr leera Aggarwal

**25 August 2017 – OBGYN ACP Patient Safety Day**

The inaugural run of Patient Safety Day, held in conjunction with Office of Patient Experience (OPE) and Department of Quality, Safety, Risk and Management (QSRM), comprised a series of lectures starting with the welcome address by Vice Chair Clinical, Assoc Prof Tan Lay Kok. We were honoured to have the opening speech by Chairman of Medical Board, A/Prof Ng Kee Chong, and an engaging keynote lecture by Prof Tan Kok Hian, Group Director of Institute for Patient Safety & Quality, titled "To change or not to change: Mindset and Culture in Patient Safety- Role of SingHealth Duke-NUS Institute for Patient Safety & Quality". Ms Irene Chan, Director of OPE, also shared about how to improve doctor-patient communication, while Ms Pang Nguk Lan, Director of QSRM, gave her talk on "Asking More – Why?". The lecture series ended with Dr Yin Shanqing, Senior Human Factors Specialist, who gave the talk "To Err is Human".

The lectures were followed by a session of exciting hands-on scenarios designed to allow participants to experience crisis management, engage in root cause analysis and improve communication in tense situations. The event ended with Professor Ho Tew Hong presenting the Patient Safety Day awards – Best Communicator Award, Best Root Cause Analyst Award and Best Teamwork Award.



Best Communicator award - Dr Ada Ng



Best Root Cause Analyst award - Dr Jill Lee



Best Teamwork award - Dr Li Mingyue, Dr Jill Lee, Dr Chia Bin Kai, Dr Michella Chia, Dr Kwek Lee Koon, Dr Stella Sasha, Dr Ho Xinyi



Issue 12 of the OBGYN Patient Safety & Clinical Quality Bulletin safety.

**Launch of OBGYN Patient Safety and Clinical Quality Bulletin – September 2017**

The Obstetrics & Gynaecology Patient Safety & Clinical Quality Bulletin was first electronically-published in September 2017, with the leitmotif "primum non nocere" – the founding principle of good clinical practice of first do no harm. This monthly bulletin serves as a platform to provide clinicians with information, share learning experiences and highlight important points to improve the overall quality of patient care and

Contributed and written up by our own OBGYN ACP clinicians, the bulletin is presented in straightforward digestible portions for junior doctors to grasp while acting as reinforcement for senior doctors. The collaboration between KKH and SGH not only features cases from both hospitals but also includes all subspecialties and showcases a variety of case types and mix. Topics range from hyperemesis gravidarum to diagnostic and therapeutic hysteroscopy, with each issue focusing on a particular topic. Through case studies, signs or symptoms to reach the correct diagnoses and their respective appropriate management treatments are explained. Rare and interesting cases are also discussed for learning and the basic know-how approach when actually encountering them.

Summarized key take-home messages include recommendations, strategies to handle complications as well as commonly overlooked risk factors to be cautious of. For commonly performed procedures, cases of near misses and the different variations that could happen during surgeries are shared for understanding and awareness. Guidelines are also emphasized and misconceptions clarified to ensure the right standard of practice. Along with these valuable learning points, each issue showcases some benchmark statistics worthwhile to note as well as an insight into current happenings.

The OBGYN Patient Safety & Clinical Quality bulletin has crux information encapsulated in a single location and disseminated through the ACP distribution list – do look out for the next dose of knowledge and how you can apply them in your daily practice!

15 September 2017 – 4th SingHealth Duke-NUS OBGYN ACP Clinical Practice Improvement Day

The SingHealth Duke-NUS OBGYN ACP Clinical Practice Improvement Day aims to cross-share experiences and ideas related to improving clinical quality and safety. Healthcare professionals can also learn about various initiatives and products to improve care and quality for patients. This year, we were privileged to have the plenary speaker Ms Deborah Wild, who shared her experiences in the science of improvement based on over thirty years in quality improvement related to pharmacy, bio-services and healthcare. This was followed by a series of talks on health care transition, supervision, professionalism and the lesser known elements of health care quality. Residents also presented their insights garnered from various clinical care improvement initiatives, and we had a guest speaker from the local biomedical incubator to talk about how to innovate and commercialise medical products that will promote better care for our patients.

The day's programme ended with the Academic Vice Chair (Clinical), Assoc Prof Tan Lay Kok, presenting the awards to commend teams and individuals for their work in enhancing patient safety and clinical quality. Dr Suzanna was awarded the Outstanding Patient Safety Champion for her tireless efforts in initiating and promoting patient safety initiatives. The accolade for the Exemplary Quality Improvement Champion went to Assoc Prof Yong Tze Tein as the only faculty who has achieved EPIC QI faculty accreditation, and for her various contributions in quality improvement initiatives. Finally, the VTE team was conferred the best quality improvement project award for significantly reducing venous thromboembolism, a crucial and preventable cause of maternal mortality and morbidity.



Outstanding Patient Safety Champion - Dr Suzanna Sulaiman



Exemplary Quality Improvement Champion - Assoc Prof Yong Tze Tein



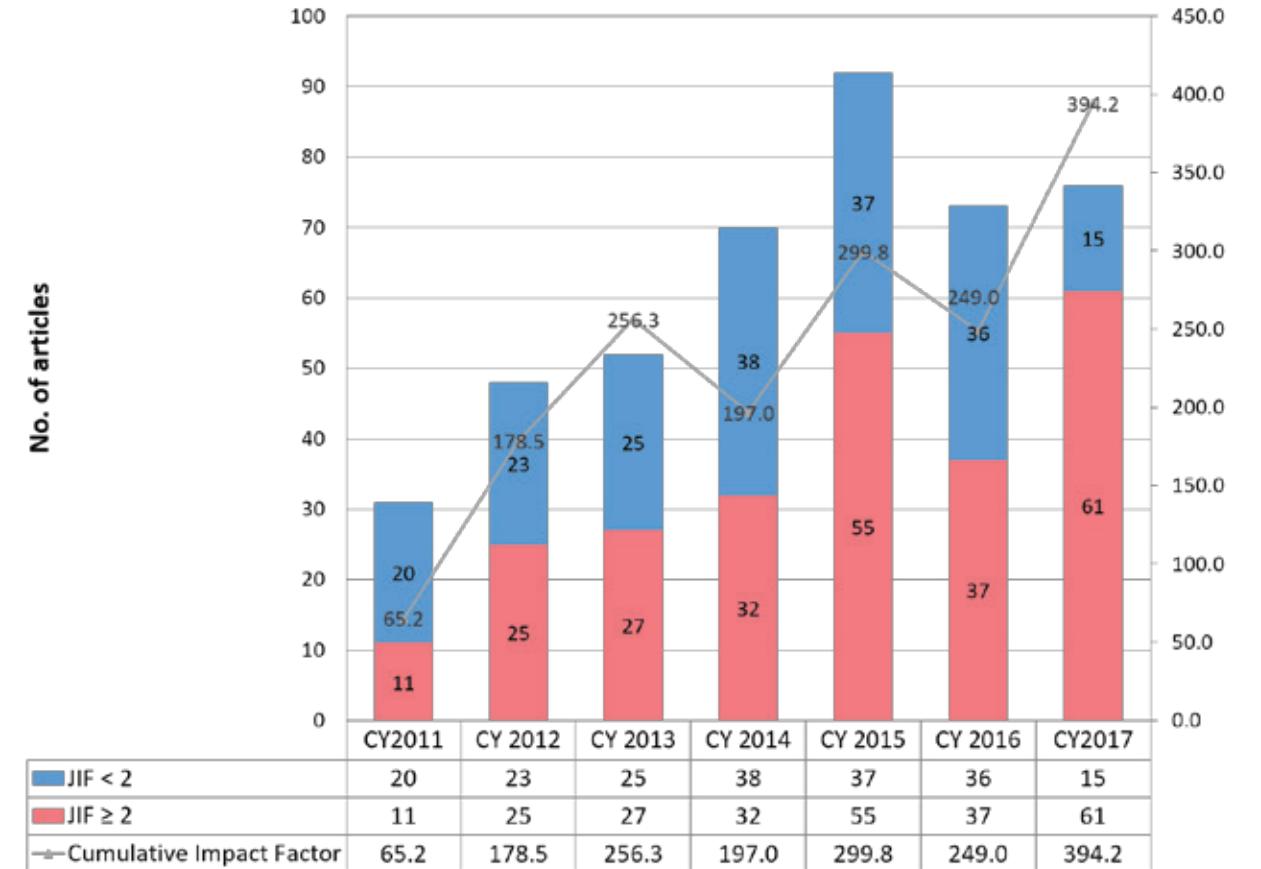
Best Quality Improvement Project - Surgical Safety VTE Prophylaxis (Dr Ng Zheng Yuan receiving on behalf of the group)



Plenary speaker Ms Deborah Wild receiving a token of appreciation.

Research KPIs (Indexed Publications) – 2010 to 2017

OBGYN ACP Published Research Articles (Indexed Journals)



24 November 2017 – 5th SingHealth Duke-NUS OBGYN ACP Research Day

The SingHealth Duke-NUS OBGYN ACP Research Day is a dedicated platform for sharing the latest research achievements of OBGYN residents in the field of O&G. The event’s highlights included an enlightening talk entitled “Thinking Beyond a Typical Birth Cohort Study” by Prof Jim Zhang, an explorative talk about “Development of the Human Immunome” by Professor Salvatore Albani, an intriguing talk by Asst Professor Yusuf Ali on “An Eye for Studying Pancreatic Islet Development in vivo” and a comprehensive talk about “Omics in Translational Medicine: From Biomarker Discovery to Insights” by Asst Professor Lee Yie Hou.

The event was warmly attended by faculty, residents and trainees, and concluded with the giving out of four oral presentation awards from two categories - “Clinical Research” and “Basic and Translational Research”.

- 1) Total number of scientific abstracts/ posters submitted: 35
- 2) Speakers: Prof Jim Zhang, Prof Salvatore Albani, Asst Prof Yusuf Ali, Asst Prof Lee Yie Hou
- 3) Award Category – Oral Presentation Awards

Award Category	Awardee	Mentor	Study Title
Best Oral Presentation Award – Clinical Research	Mr Rene Gatsinga	Adj A/Prof Lim Yong Kuei Timothy	Conservative Management of Early Stage Endometrial Adenocarcinoma: Oncological and Obstetric Outcomes in Singapore
Merit Oral Presentation Award – Clinical Research	Dr Dai Fei	Adj Prof Tan Kok Hian	Comparing Perinatal Mortality Rates between Singapore (KK Women’s & Children’s Hospital) and United Kingdom
Best Oral Presentation Award – Basic & Translational Research	Dr Qi Maili	Adj A/Prof Lim Yong Kuei Timothy	HPV genotyping in women with low grade cervical cytological abnormalities
Merit Oral Presentation Award – Basic & Translational Research	Dr Yvonne Wong	A/Prof Tan Thiam Chye	The role of Serum Progesterone as a predictor of fetal viability in women with low risk pregnancies.
Pitch for Grant Award (2017)	Ms Maureen Aleste, Dr Dhilshad Bte Muhd Abdul Qadir	Ms Catherine Chua Bee Hong	Investigating the Effects of Structured Exercise on Gestational Diabetes Mellitus
Pitch for Grant Award (2017)	Dr Michelle Chia Xue Ling	Dr Manisha Mathur	Contraception Awareness in Patients Undergoing Termination of Pregnancy in KKH
Pitch for Grant Award (2017)	Dr Yong Xiaoqi	Prof Yeo Seow Hong George	Serial transvaginal cervical assessment in symptomatic women suspected of being in preterm labour



Prof Jim Zhang, Asst Prof Lee Yie Hou, Prof Salvatore Albani and Asst Prof Yusuf Ali receiving the tokens of appreciation from Prof George Yeo Seow Heong.

Research Highlights:

i) IPRAMHO

Integrated Platform for Research in Advancing Metabolic Health Outcomes of Women and Children (IPRAMHO) is a Singapore National Medical Research Council (NMRC) funded joint collaborative pot centre grant awarded to KK Women’s and Children’s Hospital (KKH), SingHealth Polyclinics (SHP) & National Healthcare Group Polyclinics (NHGP). This is a unique collaborative centre grant where both Singapore public primary health care providers (SHP & NGHP) have come together to work with KKH, the largest tertiary and main referral center for Paediatrics, Obstetrics and Gynaecology in Singapore, on collaborative metabolic health research in women and children, aligning with RIE2020 goals and KPIs.

We have successfully engaged and helped facilitate two local GDM guidelines (College of O&G Singapore, MOH Agency for Care Effectiveness – GDM Appropriate Care Guide), and also two overseas consensus guidelines (Asia Oceania Federation of O&G Maternal Fetal Medicine Committee Consensus on GDM and Roche International Expert Panel Advisory Board Consensus on Pre-eclampsia metabolic disease). A model of follow up care for women with GDM, with polyclinics was developed through IPRAMHO. This will help with the optimal care of GDM follow-up. The SingHealth/KKH GDM follow up Management Protocol was launched in July 2018. The research also studied reasons for defaulting of care and allows more effective tracking of GDM and follow up cases who defaulted.

IPRAMHO led in GDM and metabolic research with a creation of a metabolic research network in pregnancy with 10 academic institutions in Asia Pacific region. We are facilitating the training of two Masters research nursing students with the seed grants as projects; as well as having active involvement of medical students from all three schools in Singapore, and one medical student from Duke University in November 2018. We have published three papers in top journals of the specialties and a local paper, within the first year.



IPRAMHO Executive Committee Members Meeting Nov 2017 – (from left to right) Prof Tan Kok Hian, Lead IPRAMHO PI, Head and Senior Consultant, Perinatal Audit and Epidemiology Unit, Division of Obstetrics & Gynaecology, KK Women’s and Children’s Hospital; Ms Connie Tse, Senior Executive IPRAMHO; A/Prof Ang Seng Bin, Head & Consultant Family Physician, Family Medicine Service, KK Women’s and Children’s Hospital; A/Prof Tan Ngiap Chuan, Director of Research, SingHealth Polyclinics; Dr Tang Wen Ee, Head, Clinical Research Unit, National Healthcare Group Polyclinics.

## ii) Our research journey on the role of progesterone and miscarriage

Research is a long marathon. It is an unknown journey into the wilderness, with the hope of gaining meaningful insights to help improve patient care. Our research journey began 8 years ago with a simple question that our patients commonly ask, "Is my pregnancy safe?" Their anxiety and low emotions are understandable. This simple question is challenging and cannot be answered convincingly in today's advanced medical care.

Fast forward 8 years, and we are now beginning to understand the complex interaction of maternal, foetal and immune interplay in women with impending miscarriage.

**Our research shows conclusively that serum progesterone is a reliable biomarker for miscarriage. Patients with low serum progesterone (<35 nmol/L) are more likely to miscarry than patients with high serum progesterone.**

With that, we revolutionized the management of threatened miscarriage in KKH emergency department. We used to treat ALL women with progesterone in threatened miscarriage.

Patients, presenting with threatened miscarriage are triaged with serum progesterone. Only women with low serum progesterone are treated with oral progestogens, and counselled appropriately about the increased risk of miscarriage (50-60%) despite treatment. Women with high serum progesterone were reassured and given anticipatory guidance. The miscarriage risk in this group is only at 5-10%. This management is safe and efficient, with a drastic reduction (80%) in unnecessary treatment for these patients, with no benefits.

No research story is ever complete. It is the excitement of a good bit of work that it opens new and deeper research, and this loop continues on. Our research team is currently working on non-invasive tests to prognosticate the risk of miscarriage. Downstream of progesterone, there is a shift from Th1 (pro-inflammatory) to Th2 (anti-inflammatory) immune response, with many putative cytokines and immune factors involved. These cytokines are metabolized and secreted into the urine. Our group has published that a signature set of urine metabolites is present for miscarriage and may be used to predict the risk. This would hopefully revolutionise the threatened miscarriage management.

Understanding the underlying pathophysiology of miscarriage will lead to the development of specific biomarkers and targeted therapy. Until that day, more work needs to be done to elucidate the crosstalk between foetal trophoblast, maternal decidua and uterine immune cells.



Research team involved (from left to right) - Asst Prof Lee Yie Hou, Dr Ku Chee Wai, Trish Koon, Dr He Song, Dr Shayna Siew, Assoc Prof Tan Thiam Chye, Lee Pei Sian, Erica Nuriyah Fadziulah and Ong Mah Lay.

## iii) Sex Chromosome Aneuploidy associated infertility: A paradigm for investigating the determinants of germ cell "identity"

Fundamental biological differences in sex and sex-linked diseases are critically dependent on the sex chromosome complement. For germ cells, which develop differently in males and females to give rise to sperm and eggs respectively, sex chromosome complement can also influence their "identity". In previous studies, germ cells with sex chromosome aneuploidy displayed imbalanced X chromosome dosages that distort the identity of these cells, with XX males misexpressing "female" genes and XO females misexpressing "male" genes. These earlier findings also suggest that the mismatch between the number of X chromosomes and gonadal sex may be causal in germ cell loss in sex chromosome infertility. This phenomenon can be seen in common human sex chromosome aneuploidy syndromes, such as Klinefelter syndrome (males with XX chromosomes) and Turner's syndrome (females with XO chromosomes), where they are also associated with germ cell loss and infertility.

This study aims to understand the mechanisms that underlie how X chromosome number influences gene expression and methylation in germ cells. In-depth analyses will be performed using a combination of approaches, such as mouse models and RNA-, bisulphite- and ChIP-sequencing, to generate high-resolution expression and epigenetic maps of germ cells. By uncovering the biology underlying germ cell identity, and hence gaining a better understanding of sex chromosome disorders and infertility, the study will help inform and improve the management of patients with sex chromosome aneuploidy syndromes and infertility in general.

The principal investigator, Assoc Prof Mahesh Nataraj Sangrithi, Consultant, Department of Reproductive Medicine, was one of the recipients of the Clinician Scientist Award – Investigator Category, awarded by the National Medical Research Council. The grant proposal titled Sex Chromosome Aneuploidy associated infertility: A paradigm for investigating the determinants of germ cell "identity" received a total funding quantum of \$1,275,000 on 3 January 2018. The research group will be working together with distinguished researchers from KKH, Genome Institute of Singapore and Francis Crick Institute.



(Right) Assoc Prof Mahesh Nataraj Sangrithi and research fellow Dr Lau Xianzhong.

#### iv) Understanding the development of the fetal immune system, and its implication for stem cells and gene therapy for the fetus

Intrauterine Gene or Stem Cell therapy represents a promising approach to treat inherited genetic diseases, especially those that cause irreversible pathology during fetal life. Additionally, the presumed immune naiveté may allow central tolerance to allogeneic proteins or stem cells to be achieved. However, while intrauterine therapy has achieved notable success in immunodeficiency disorders such as X-Linked SCID, attempts to treat diseases such as beta-globinopathies have been met with failure, most possibly due to the unanticipated robust immune responses. Previous studies on fetal immune ontogeny have revealed a tolerogenic bias of fetal T cells. But the ability of the fetal antigen presenting cells (APC) to detect and respond to pathogens remained unclear. Consequently, we studied the APC network in late first and early second trimester of pregnancy using high dimensional state-of-the-art flow technologies in collaboration with Prof. Florent Ginhoux (Singapore Immunology Network, A\*STAR & Visiting Scientist at KKH).

We found that the entire network of fetal dendritic cells (DC) can be identified as early as 12 weeks of pregnancy. These fetal DC subsets are broadly analogous to their adult counterparts in their immunophenotype and transcriptory activities, and begin migrating to the lymph nodes by 16 weeks gestation where they take up an immune-surveillance role. Fetal DCs can mount an immune response towards toll-like receptor ligation (stimulation), which is important for recognition of pathogens like in adult DCs.

However, in contrast to adult DCs, fetal DCs strongly promote T-regulatory cell production that promotes immune tolerance. In addition, fetal DCs inhibits T-Cell TNF-alpha production through high arginase-2 activity. These results demonstrate an important role of fetal DCs in mediating immune-suppression responses during gestation, with implications for intrauterine therapy, and understanding mechanisms of feto-maternal tolerance during pregnancy.

This study was published in Nature in June 2017. The authors: Naomi McGovern, Amanda Shin, Gillian Low, Donovan Low, Kaibo Duan, Leong Jing Yao, Rasha Msallam, Ivy Low, Nurhidaya Binte Shadan, Hermi R Sumatoh, Erin Soon, Josephine Lum, Esther Mok, Sandra Hubert, Peter See, **Edwin Huang Kunxiang**, Mahesh Choolani, Citra Nurafah Zaini Mattar, **Fan Yiping**, Tony Kiat Hon Lim, John Kit Chung Tam, Christopher Schuster, Adelheid Elbe-Bürger, Michael Poidinger, Xiao Wang, Venetia Bigley, Matthew Collin, Muzlifah Haniffa, Salvatore Albani, Anis Larbi, Evan W Newell, **Jerry Kok Yen Chan\*** and Florent Ginhoux\*. Human fetal dendritic cells promote pre-natal T cell immune-suppression through Arginase 2 activity. **Nature. 2017 Jun 29;546(7660):662-666. \*Joint Last and Corresponding Author. IF 40.137**

Featured in **Nature News** <http://www.nature.com/news/eye-opening-picture-of-fetal-immune-system-emerges-1.22144>



Assoc Prof Jerry Chan with his research team.  
(From left to right) Edwin Shepherdson, Foo Wan Ling, Tan Lay Geok, Dr Sherryl Soh, A/Prof Jerry Chan, Dr Fan Yiping, Nuryanti Johana, Tan Yi Wen, Liew Hui Hua and Ng Xiang Wen.

#### Selected 20 publications

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Quah YL, **Aggarwal IM**. Discussing human papilloma virus vaccination. *BMJ*. 2017 Jun 22;357:j2730. doi: 10.1136/bmj.j2730. (JIF:20.0)

Ellnati E, Russell HR, Ojarikre OA, **Sangrithi M**, et al. DNA damage response protein TOPBP1 regulates X chromosome silencing in the mammalian germ line. *Proc Natl Acad Sci U S A*. 2017 Nov 21;114(47):12536-12541. doi: 10.1073/pnas.1712530114. Epub 2017 Nov 7. (JIF: 9.7)

Lum FM, Low DK, **Chan JK**, et al. Zika Virus Infects Human Fetal Brain Microglia and Induces Inflammation. *Clin Infect Dis*. 2017 Apr 1;64(7):914-920. doi: 10.1093/cid/ciw878. (JIF: 8.7)

**Mathur M, Ng QJ, Tagore S**. Use of Bakri balloon tamponade (BBT) for conservative management of postpartum haemorrhage: a tertiary referral centre case series. *J Obstet Gynaecol*. 2017 Aug 6:1-5. doi: 10.1080/01443615.2017.1328671. (JIF: 5.2)

Salomon LJ, Alfirevic Z, Audibert F, Kagan KO, Paladini D, **Yeo G**, Raine-Fenning N; ISUOG Clinical Standards Committee. ISUOG updated consensus statement on the impact of cfDNA aneuploidy testing on screening policies and prenatal ultrasound practice. *Ultrasound Obstet Gynecol*. 2017 Jun; 49(6):815-816. doi: 10.1002/uog.17483. (JIF: 4.7)

Cai S, Natarajan P, **Chan JKY**, et al. Maternal hyperglycemia in singleton pregnancies conceived by IVF may be modified by first-trimester BMI. *Hum Reprod*. 2017 Sep 1;32(9):1941-1947. doi: 10.1093/humrep/dex243. (JIF: 4.7)

Götherström C, **Chan J**, O'Donoghue K, Fisk NM. Identification of candidate surface antigens for non-invasive prenatal diagnosis by comparative global gene expression on human fetal mesenchymal stem cells. *Mol Hum Reprod*. 2017 Jan 24. doi: 10.1093/molehr/gax001. (JIF: 3.9)

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**Loy SL, Chan JKY, Tan KH**, et al. Maternal Night-Fasting Interval during Pregnancy Is Directly Associated with Neonatal Head Circumference and Adiposity in Girls but Not Boys. *J Nutr*. 2017 Jun 7. pii: jn250639. doi: 10.3945/jn.117.250639. (JIF: 3.9)

Lai JS, **Chan JKY, Tan KH**, et al. High folate and low vitamin B12 status during pregnancy is associated with gestational diabetes mellitus. *Clin Nutr*. 2017 Mar 24. pii: S0261-5614(17)30113-9. doi: 10.1016/j.clnu.2017.03.022. (JIF: 3.8)

Teo I, Cheung YB, **Lim YK, Padmavathi NR**, Long V, **Tewani K**. The Relationship between Symptom Prevalence, Body Image and Quality of Life in Asian Gynecologic Cancer Patients. *Psychooncology*. 2017 May 15. doi: 10.1002/pon.4457. (JIF: 3.3)

**Lek SM, Ku CW**, Allen JC Jr, Malhotra R, Tan NS, Østbye T, **Tan TC**. Validation of serum progesterone <35nmol/L as a predictor of miscarriage among women with threatened miscarriage. *BMC Pregnancy Childbirth*. 2017 Mar 6;17(1):78. doi: 10.1186/s12884-017-1261-4. (JIF: 3.1)

Ho CK, Tan ET, **Ng MJ, Yeo GS, Chern B**, Tee NW, **Kwek KY, Tan KH**. Gestational age-specific reference intervals for serum thyroid hormone levels in a multi-ethnic population. *Clin Chem Lab Med*. 2017 Apr 10. pii: /j/cclm.ahead-of-print/cclm-2016-0790/cclm-2016-0790.xml. doi: 10.1515/cclm-2016-0790. (JIF: 3.0)

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**Wong TTC, Tung JSZ, Lau HCQ, Tagore S**. Antenatal corticosteroids administration: are we giving them at the right time? *Arch Gynecol Obstet*. 2017 Oct 29. doi: 10.1007/s00404-017-4577-4. (JIF: 2.1)

**Tay SK**, Hsu TY, Shcheprov A, Walia A, Kulkarni AS. The clinical and economic benefits of school-based quadrivalent HPV vaccination in Singapore. *Int J Gynaecol Obstet*. 2017 May;137(2):129-137. doi: 10.1002/ijgo.12126. Epub 2017 Mar 10. (JIF: 1.7)

**George SH Yeo, Maili Qi, Ruo Chen Du**, Padma Lata Mahavadi, Chee Fu Yung, Koh Cheng Thoon, **Edwin WH Thia, Kai Lit Tan**, Fon Min Lai, **Nicole KL Lee**. Gender-Specific Reference Charts of Fetal Head Circumference in a Singaporean Population. *Ann Acad Med Singapore* 2017;46:367-73 (JIF: 1.7)

**Tan KH**, Tan SS, **Ng MJ, Tey WS**, Sim WK, Allen JC, Lim SK. Extracellular vesicles yield predictive pre-eclampsia biomarkers. *J Extracell Vesicles*. 2017 Dec 13;6(1):1408390. doi: 10.1080/20013078.2017.1408390. (JIF: NA)

### 9-12 February 2017 – 13th ISUOG in conjunction with the Combined Scientific Meeting of the COGS and OGSS

The 13th ISUOG in conjunction with the Combined Scientific Meeting of the College of O&G Singapore (COGS) and O&G Society of Singapore (OGSS) was held at the Grand Hyatt Singapore. The event highlighted current issues such as Zika in Pregnancy, CTG case discussions and latest developments in fetal monitoring and intrapartum care. The faculty comprised renowned speakers from India, France, USA, England, Italy and Malaysia. The pre-congress workshop included the Combined Obstetrics Resuscitation & Emergencies (CORE) course, held on 9th February 2017.



Prof George Yeo SH giving the opening address.

### 15-16 June 2017 – Maternal Medicine Course

The 7th Maternal Medicine course was organized by the SGH Department of O&G and SingHealth Duke-NUS Institute of Medical Simulation (SIMS), partnered with O&G Society of Singapore (OGSS) and College of O&G (Singapore). The course covered medical complications and conditions occurring during pregnancy, managing and counselling. With three international faculty members, the programme featured the field's latest evidence-based management, complemented by interactive case studies and discussions.



Faculty and participants at the 7th Maternal Medicine Course.

### 4-6 July 2017 – Regional Congress of APAGE 2017: Anatomy and Innovation: Overcoming Difficulties in Challenging Situations

The regional congress was organized by KK Hospital's Minimally Invasive Surgery (MIS) unit in conjunction with OBGYN ACP and the Asia Pacific Association for Gynecological Endoscopy and Minimally Invasive Therapy (APAGE). Chaired by Adj Assoc Prof Bernard Chern Su Min, the faculty comprised MIS specialists from Singapore, Australia, Japan, Taiwan, South Korea and other regional countries.

The main congress included lectures about the latest topics relevant to minimally invasive surgery, such as Prof Alan Lam's talk about taking a robotic approach to severe endometriosis surgery, and Dr Sevellaraja Supermaniam's tips and tricks when performing surgery on a large uterus. Exciting and challenging live surgeries performed by Prof Alan Lam, A/Prof Timothy Lim, as well as Prof Masaaki Andou and Dr Tomonori Hada, were featured and showcased highly skilled techniques for various types of surgeries. The surgeries were well-received and an eye-opening experience for the delegates. Post-congress workshops were conducted, with a full-day Advanced Cadaveric Workshop running concurrently with a Hysteroscopy Intensive Practical Training Workshop in the morning and a Basic to Intermediate Laparoscopic Animal Workshop in the afternoon.



Group photo at Academia



Delegates viewing the robotic live surgery performed by Dr Alan Lam

### 29 July 2017 - SingHealth Residency Open House



[Front row: from left to right] Dr Jason Lim, Dr Manisha Mathur (Programme Director), Dr Ng Qiu Ju, Dr Jill Lee, Dr Hester Lau, Dr Yvonne Wong, Dr Lee Shi Hui, Dr Tan Yin Ru

[Back row: from left to right] Dr Chia Bin Kai, Dr Ku Chee Wai

The SingHealth Residency Open House is an annual event where prospective residents gather to explore different specialty training programmes. The event attracted more than 500 medical students, HOs and MOs. Our OBGYN Residency Programme Director, Dr Manisha Mathur, together with Faculty and Residents, reached out to participants to share more about our programme, as well as to provide them with better insights into the specialties. It was an engaging session for the participants, our faculty and residents.

### 19 August 2017 - Inaugural OASIS Hands-on Workshop

The Inaugural Obstetrics Anal Sphincter Injuries (OASIS) Workshop was conducted on 19 August 2017 at Academia. Involving a multi-disciplinary team of faculty from KKH Department of O&G, KKH/SGH Department of Colorectal Surgery and KKH Department of Physiotherapy, the workshop covered a wide range of topics, and further enhanced the teachings with interactive OSCEs and quizzes. The workshop also incorporated hands-on practical sessions for participants using animal specimens and simulation models to help participants better identify, manage and repair 3rd/4th degree tears. The hands-on sessions were conducted under close supervision and guidance by the team of experienced faculty.



Faculty and participants at the workshop.



Participants during the hands-on segment of the workshop.

### 17 September 2017 - 4th SGH SOAR

The 4th run of the Starting Out on Assisted Reproduction (SOAR) course was held on 17 September 2017 at Academia. The course provides a comprehensive overview of the entire IVF cycle, covering both clinical aspects and the science behind assisted reproduction.



Faculty and participants at the 4th SOAR course.

### 28 October 2017 - LKC Faculty Retreat

The LKC O&G faculty retreat was held on Saturday, 28th October. The retreat was well-attended by faculty and residents, as well as Vice Dean of Education for LKC, Prof Naomi Beer-Low and Year 4 Dean, Prof Wong Teck Yee. The session included sharings by students about their posting experiences, followed by an overview, feedback results and future plans by A/Prof Tan Heng Hao and Dr Kathirvel Rajeswari, lead coordinator and co-lead coordinator respectively. The retreat ended with a discussion between KKH and LKC faculty about the challenges and how to address them moving forward. The retreat provided an excellent opportunity for collaboration between the school and KKH.



Discussion with LKC.



LKC retreat group photo.

### 10 November 2017 – 5th SingHealth Duke-NUS OBGYN ACP Education Day

Education Day is a platform for clinicians to cross-share various interesting educational projects and initiatives, with this year's theme being particularly focused on interprofessional education and cross-collaboration between different healthcare professionals. We were honoured to have Prof Soo Khee Chee, SingHealth Deputy Group CEO (Research and Education), give an inspiring talk, about paying it forward as an educator as well as celebrating success. Assoc Prof Lai Siang Hui, Senior Consultant, SGH Department of Anatomical Pathology, also presented "How to Cultivate a Positive Learning Environment", followed by various interesting educational projects and initiatives presented by our OBGYN faculty and residents.



Best Resident from Graduating Cohort of 2013, SingHealth OBGYN Residency - Dr Joella Ang



Best R1 Resident - Dr Li Mingyue



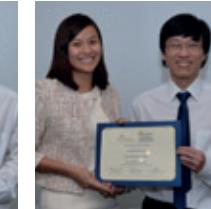
Best R4 Resident - Dr Ng Qiu Ju



Best R4 Resident - Dr Joella Ang



Best R5 Resident - Dr Qi Maili



Best CREOG Score - Dr Joella Ang

### 17 November 2017 - CaSH

The Contraception and Sexual Health (CaSH) workshop was held on 17 November 2017 at the KKH Training Centre. The workshop is a platform for healthcare providers to learn about different types of contraceptives such as oral tablets, IUCD and more. The workshop comprised several stations which utilized creative and engaging ways to educate participants, imparting important knowledge by the trained and experienced faculty.



Dr Ami Jay at her CaSH workshop station.



Participants at the CaSH workshop hands-on.

### 8 Dec 2017 Inaugural AM•EI Faculty Development Course

The inaugural AM•EI Faculty Development Course – Strategies for Giving Feedback held on 8 December 2017 was led by Prof Sandy Cook, Dr Manisha Mathur, Assoc Prof Tan Lay Kok and Dr Tan Eng Loy. The course included a role play segment that allowed participants to effectively utilize the DESC (Describe, Explain, Strategize and Consequences) model to provide constructive feedback in challenging scenarios. At the same time, participants were able to identify barriers using this model and plan strategies to overcome these barriers, allowing them to understand the concept of giving, seeking and receiving feedback in a balanced manner. The workshop left participants fully engaged in the learning process and more confident in giving constructive feedback in challenging scenarios and able to apply what they have learnt in their daily interaction with trainees.



Faculty and participants at the faculty development course.

### PUBLIC FORUMS

Both KKH and SGH are actively engaged in raising awareness and opportunities for the audience members to gain insights on the various pertinent O&G issues at the public and general practice forums. The forums have received overwhelming support from the public. The "Breezing Through Menopause" public forum was held on 28 Oct 2017, and was well attended in the KKH Auditorium and Auditorium foyer.



Dr Ang Seng Bin (Left) giving a talk at the "Breezing Through Menopause" public forum.



### LECTURES AND TALKS

OBGYN ACP continues to facilitate the sharing of knowledge and skills by overseas experts to enhance the learning experience of our local healthcare professionals in the field of O&G.

20 June 2017 – Lunch Symposium by Prof Jim Zhang Jun, Perinatal Epidemiologist, Shanghai Jiaotong University: "Cesarean Section, Childhood Asthma and Role of Breastfeeding"

21 June 2017 – Lunch Symposium by Professor Tim Draycott, Consultant Obstetrician at North Bristol NHS Trust: "Recent Updates on PPH" and "Safety in Induction"

25 July 2017 – Lunch Symposium by Professor Peter Braude, Emeritus Professor, Division of Women's Health King's College London: "Replacing the Mitochondrial Genome to Overcome Infertility"

### 3 September 2017 – SingHealth Duke-NUS Gala Dinner 2017

“Stars of the Night”, the SingHealth Duke-NUS Gala Dinner 2017 was held on 3rd September 2017 at the Grand Ballroom of Ritz-Carlton Millenia Singapore. The dinner celebrated the philanthropy contributions and achievements of the various Academic Clinical Programmes (ACPs), and commemorates the continued work of the Academic Medical Centre to keep uncovering novel ways of improving the quality of patients’ lives through research and education. A special thanks goes out to Goshen Art Gallery for donating the Peonies Blossom art pieces, which was successfully auctioned off.

OBGYN ACP managed to raise \$98,472.48, through table sales and auction items. A total of 3 pieces were auctioned off:

- Peonies Blossom by Goshen Art Gallery
- Happiness by Dr Chua Yang
- Flowers of Singapore: The Rangoon Creeper by Mdm Lau



OBGYN ACP faculty and guests at the Gala Dinner.



Donors and faculty at the Stars of the Night Gala Dinner.

### 12 November 2017 – Great Eastern Women’s Run 2017

SingHealth Duke-NUS OBGYN ACP is pleased to once again partner Great Eastern Women’s Run. The run managed to raise a total of \$57,662, which was shared between the two beneficiaries, one of which was our very own “Women’s Health Research and Education Fund” under SingHealth Duke-NUS OBGYN Academic Clinical Programme. Approximately two hundred SingHealth staff participated this year.



Presentation of cheque: (from left) Minister for Culture, Community and Youth, Ms Grace Fu; KKH CEO, Prof Alex Sia; and President of Breast Cancer Foundation, Ms Noor Quek, and Great Eastern CEO, Mr Norman Ip.

#### A. SingHealth Duke-NUS Obstetrics and Gynaecology Academic Clinical Programme (OBGYN ACP)

NAME	DESIGNATION
Adj Assoc Prof Chern Su Min Bernard	Academic Chair
Adj Assoc Prof Tan Hak Koon	Deputy Academic Chair
Prof Ho Tew Hong	Advisor (Previously Academic Vice Chair, Education)
Prof Yeo Seow Heong George	Advisor (Previously Academic Vice Chair, Research)
Prof Tan Kok Hian	Advisor
Ng Mor Jack	Senior Manager

#### I) SingHealth Duke-NUS (Education)

NAME	DESIGNATION
Adj Assoc Prof Tan Lay Kok	Academic Vice Chair, Education (Previously Vice Chair, Clinical)
Adj Assoc Prof Tee Chee Seng	Academic Deputy Vice Chair, Education
Huang Linghui Belinda	Assistant Manager
Kam Limin	Senior Executive
Loh Pei Ting Peggie	Executive
Anita Kurup	Executive

#### II) SingHealth Duke-NUS (Research)

NAME	DESIGNATION
Adj Assoc Prof Lim Yong Kuei Timothy	Academic Vice Chair, Research
Zheng Jiayun	Clinical Research Coordinator
Wang Qingyi Estella	Clinical Research Coordinator
Cheong Hui Shi	Clinical Research Coordinator
R Abarna	Clinical Research Coordinator

#### III) SingHealth Duke-NUS (Clinical)

NAME	DESIGNATION
Adj Assoc Prof Yong Tze Tein	Academic Vice Chair, Clinical
Adj Assoc Prof Tan Heng Hao	Academic Deputy Vice Chair, Clinical
Tey Wan Shi	Executive

#### IV) SingHealth Duke-NUS (OBGYN Residency)

NAME	DESIGNATION
Adj Asst Prof Manisha Mathur	Programme Director
Adj Assoc Prof Tan Lay Kok	Associate Programme Director
Adj Asst Prof Jessie Phoon	Associate Programme Director
Huang Linghui Belinda	Assistant Programme Manager
Ang Yiqian Felicia	Programme Executive
Lim Wei Sian Wileen	Programme Executive
Yvonne Tang Pui Har	Associate Executive

#### V) SingHealth Duke-NUS (ACP Finance)

NAME	DESIGNATION
Chun Lye Har Joyce	Director
Ong Hua	Deputy Director
Tay Gek Peng Tracy	Manager
Lin Enyu Evelyn	Assistant Manager
Neo Siew Shih Cherise	Senior Account Assistant

**B. Education****I) SingHealth Obstetrics and Gynecology Residency Programme**

NAME	DESIGNATION	
Adj Asst Prof Manisha Mathur	Programme Director	
Adj Prof Ho Tew Hong	Programme Evaluation Committee, Chairman	
Adj Asst Prof Jessie Phoon Wai Leng	Associate Programme Director (KKH Campus)	
Adj Assoc Prof Tan Lay Kok	Associate Programme Director (SGH Campus)	
Adj Assoc Prof Chern Su Min Bernard	Programme Core Faculty (KKH Campus)	
Adj Assoc Prof Yam Kwai Lam Philip		
Assoc Prof Chan Kok Yen Jerry		
Adj Assoc Prof Tan Heng Hao		
Assoc Prof Tan Thiam Chye		
Adj Asst Prof Khoo Chong Kiat		
Adj Asst Prof Shephali Tagore		
Adj Asst Prof Wong Wai Loong		
Adj Assoc Prof Devendra Kanagalingam		Programme Core Faculty (SGH Campus)
Adj Asst Prof Jason Lim Shau Khng		

**II) Duke-NUS Medical School (a collaboration between Duke University, Durham and National University of Singapore) OBGYN Clerkship**

NAME	DESIGNATION
Adj Assoc Prof Bernard Chern Su Min	OBGYN Programme Leader
Assoc Prof Tan Thiam Chye	Programme Coordinator
Adj Asst Prof Sonali Prashant Chonkar	Deputy Programme Coordinator
Toh Bee Ling	Senior Executive
Yap Mei Hsien Mabel	Clinical & Faculty Affairs Admin Asst

**III) National University of Singapore Yong Loo Lin School of Medicine (NUS Medicine) OBGYN Clerkship****KKH**

NAME	DESIGNATION
Adj Asst Prof Khoo Chong Kiat	Programme Coordinator
Adj Asst Prof Manisha Mathur	Deputy Programme Coordinator
Huang Linghui Belinda	Assistant Programme Manager
Anita Kurup	Executive

**SGH**

NAME	DESIGNATION
Adj Assoc Prof Devendra Kanagalingam	Program Coordinator
Adj Assoc Prof Yong Tze Tein	Deputy Programme Coordinator
Geetha D/O Arumuga Vandayar	Associate Executive

**IV) Lee Kong Chian School of Medicine (a collaboration between Nanyang Technological University and Imperial College London) OBGYN Clerkship**

NAME	DESIGNATION
Adj Assoc Prof Tan Heng Hao	Clerkship Lead
Adj Senior Lecturer Kathirvel Rajeswari	Clerkship Co-Lead
Kam Limin	Executive
Loh Pei Ting Peggie	Executive

**C. SingHealth & Duke-NUS – JOAM/AMD, OACD, ADD****I) Joint Office of Academic Medicine (JOAM)/ Academic Medicine Department (AMD)**

NAME	DESIGNATION
Prof Wong Tien Yin	Deputy Group CEO, Research and Education, Health Services Senior Vice Dean, Clinical, Academic & Faculty Affairs, Duke-NUS
Adj Prof Tan Kok Hian	Group Director, Academic Medicine, SingHealth Senior Associate Dean, Academic Medicine, Duke-NUS Medical School
Foo Suan Jong	Director
Maung May Lay Katheryn	Deputy Director

**II) Office of Academic & Clinical Development (OACD)**

NAME	DESIGNATION
Prof Wong Tien Yin	Vice-Dean
Prof Fong Kok Yong	Senior Associate Dean
Adj Assoc Prof Ng Kee Chong	Senior Associate Dean

**III) Academic Development Department (ADD)**

NAME	DESIGNATION
Prof Lim Shih Hui	Senior Associate Dean
Adj Prof Goh Siang Hiong	Director, Academic Clinician Development Programme (ACDP)
Assoc Prof Deidre Anne De Silva	Director, Clinician Investigator Development Programme (CIVDP)
Adj Assoc Prof Chan Wei Shih Derrick	Director, Clinician Innovator Development Programme (CINDP)
Adj Assoc Prof Tan Hak Koon	Associate Dean, Residency Education
Assoc Prof Tan Kiat Tee Benita	Director, Associate Consultant Readiness Programme (ACRP)
Prof Chay Oh Moh	Director, Senior Academic Clinician Development Programme (SACDP)
Prof Tan Eng King	Director, Pre-CS Residency Preceptorship (PCSRP)
Adj Assoc Prof T Thirumothy S/O Thamotharampillai	Director, Professionalism Development Programme
Ms Yeo May May	Senior Associate Director

**D. Faculty and staff of OBGYN ACP****I) KK Women's and Children's Hospital****A) Division of O&G**

NAME	DESIGNATION
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Adj Assoc Prof Tan Heng Hao	Deputy Chairman & Senior Consultant
Adj Assoc Prof Lim Yong Kuei Timothy	Deputy Chairman & Senior Consultant
Prof Yeo Seow Heong George	Chief of Obstetrics & Emeritus Consultant
Adj Prof Ho Tew Hong	Chief of Gynaecology & Emeritus Consultant
Prof Tan Kok Hian	Senior Consultant
Adj Assoc Prof Tee Chee Seng John	Senior Consultant
Adj Asst Prof Tan Kim Teng	Senior Consultant
Prof Jim Zhang Jun	Consultant
Adj Asst Prof Queenie Li Lingjun	Research Fellow
Lim Boon Heng Bryan	Assistant Director
Dr Dai Fei	Senior Research Associate
Connie Tze Kwan Yi	Senior Executive
Ong Phei Hong	Senior Executive
Toh Guat Nee Liam	Senior Executive
Nurul Syaza Binte Razali	Senior Clinical Research Coordinator
Nyo Mie Win	Clinical Research Coordinator
Chan Hong Heng	Medical Laboratory Technologist
Low Siok Eng Fiona	Executive
Lim Teck Wee	Executive

**B) Minimally Invasive Surgery Unit**

NAME	DESIGNATION
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Adj Asst Prof Khoo Chong Kiat	Senior Consultant
Dr Lee Jiah Min	Consultant
Adj Asst Prof Wei Wei Wee-Stekly	Consultant
Adj Instructor Alexandria See Tze Ann	Associate Consultant
Dr Michelle Lim Hui Ping	Associate Consultant
Dr Shahul Hameed Mohamed Siraj	Senior Staff Physician
Zhang Yali	Senior Clinical Coordinator
Lim Hwee Theng Irene	Executive

**C) Department of Gynaecological Oncology**

NAME	DESIGNATION
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Adj Assoc Prof Yam Kwai Lam Phillip	Senior Consultant
Adj Asst Prof Lim Sheow Lei	Senior Consultant
Adj Asst Prof Chin Pui See Janice	Senior Consultant
Adj Asst Prof Wong Wai Loong	Consultant
Dr leera Madan Aggarwal	Consultant
Adj Instructor Tewani Girish Komal	Consultant
Dr Wang Junjie	Associate Consultant
Dr Felicia Chin Hui Xian	Associate Consultant
Dr Ho Weng Yan	Associate Consultant
Associate in Education Namuduri Ramapadmavathi Devi	Staff Physician
Choo Joo Chin Annie	Executive
Lin Xiao Hui	Senior Clinical Coordinator
Rigobert Elaine Anna	Clinical Coordinator
Shirley Cheng Li Jiuan	Senior Associate Executive

**D) Department of Maternal Fetal Medicine**

NAME	DESIGNATION
Adj Asst Prof Shephali Tagore	Head & Senior Consultant Director, O&G International Medical Programmes
Adj Asst Prof Thia Wee Hong Edwin	Deputy Head & Senior Consultant Obstetrics Ultrasound & Prenatal Diagnostic Unit
Prof Yeo Seow Heong George	Chief of Obstetrics, Emeritus Consultant Director, Antenatal Monitoring Unit
Dr Lai Fon Min	Head & Visiting Consultant Antenatal Risk Assessment Unit
Prof Tan Kok Hian	Head & Senior Consultant Perinatal Audit and Epidemiology Unit
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Adj Instructor Ilka Tan	Consultant
Dr Koh Seow Choon Daniel	Consultant
Dr Sim Wen Shan	Associate Consultant
Dr Anju Bhatia	Staff Physician
Dr Karunamary Lional	Staff Physician
Low Poh Hoon Esther	Assistant Director
Dr Yeo Tai Wai	Chief Scientific Officer
Liew Sin Yi Cindy	Executive
Du Ruochen	Executive
Norain Bte Kassim	Senior Clinical Coordinator
Christy Cao Yu Hua	Senior Clinical Coordinator
Ng Bee Yen Karina	Clinical Coordinator
Moe Thiha	Clinical Coordinator
Tan Poh Ling Dina	Clinical Coordinator
Padma Lata	Statistical Officer
Serene Ong Si Min	Associate Executive
Jasmine Lim Wai Mun	Senior Associate
Siti Zubaidah Omar	Associate

**E) Department of O&G**

NAME	DESIGNATION
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Adj Asst Prof Suzanna Sulaiman	Head of Unit, Inpatient Service, Senior Consultant
Adj Asst Prof Manisha Mathur	Head of Unit, Ambulatory Service, Senior Consultant
Adj Asst Prof Tan Vic Khi June	Senior Consultant
Adj Asst Prof Khong Chit Chong	Senior Consultant
Adj Asst Prof Mariamma George	Senior Consultant
Adj Asst Prof Kathirvel Rajeswari	Consultant
Dr Julian Kang Hean Leng	Consultant
Dr Mahesh Nataraj Sangrithi	Consultant
Adj Instructor Freda Khoo Wan Yu	Associate Consultant
Dr Janice Tung Su Zhen	Associate Consultant
Dr Koe Suan-Li Liana	Associate Consultant
Dr Seet Meei Jiun	Associate Consultant
Adj Asst Prof Sonali Prashant Chonkar	Staff Physician
Dr Pramanick Angsumita	Senior Staff Registrar
Dr Shailaja D Anipindi	Staff Registrar
Dr Ni Ni Soe	Senior Staff Registrar
Dr Boricha Yash Bhanji	Senior Resident Physician
Dr Khoo Shiang Pyng Tiffanie	Resident Physician
Dr Neha Jinsiwale	Resident Physician
Dr Ami Jay Unarkar	Clinical Associate
Mohamed Yazid Bin Mohamed Abidin	Executive
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Ong Mah Lay	Clinical Research Coordinator
Erica Nuriyah Fadziulah	Clinical Research Coordinator
Lee Pei Sian	Clinical Research Coordinator
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Noridahyati Binte Suhaimi	Senior Associate Executive

**F) Department of Reproductive Medicine**

NAME	DESIGNATION
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Assoc Prof Jerry Chan Kok Yen	Senior Consultant
Adj Asst Prof Viardot-Foucault Veronique Celine	Senior Consultant
Adj Asst Prof Phoon Wai Leng Jessie	Consultant
Adj Instructor Tan Tse Yuen	Consultant
Adj Instructor Liu Shuling	Consultant
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Dr Mishra Nidhi	Clinical Associate
Lim Chet Ling	Manager
Lim Ee Lyn	Senior Executive
Khoo Su Ling, Charmaine Ann	Executive
Ng Xiang Wen	Senior Research Assistant
Hartini Binte Mohamed Senin	Senior Associate Executive
Karen Chen Zhongjian	Senior Clinical Coordinator
Vidya Vijaya Kumar	Clinical Coordinator
Sylvia Wardhani	Clinical Coordinator

**G) Department of Urogynaecology**

NAME	DESIGNATION
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Dr Kazila Bhutia	Associate Consultant
Dr Huang Youjin Eugene	Associate Consultant
Dr Tan Shu Qi	Associate Consultant
Dr Kadam Pratima Datta	Senior Staff Registrar
Dr Priyanka Singh	Senior Staff Registrar
Wong Ah Chun Judy	Executive
Peh Sin Ee Jolene	Clinical Research Coordinator

**H) Menopause Unit**

NAME	DESIGNATION
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Dr Rukshini Puvanendran	Senior Consultant
Dr Lee Mi Li Jean Jasmin	Associate Consultant
Dr Lu Hualong	Family Physician
Tan Siao Ling Catherine	Senior Secretary

**II) Singapore General Hospital  
Department of O&G**

NAME	DESIGNATION
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Adj Assoc Prof Yu Su Ling	Senior Consultant
Adj Prof Tay Sun Kuie	Senior Consultant
Adj Prof Ng Sen Ark Charles	Emeritus Consultant
Adj Assoc Prof Yong Tze Tein	Senior Consultant
Adj Asst Prof Chua Hong Liang	Senior Consultant
Adj Assoc Prof Tan Lay Kok	Senior Consultant
Adj Assoc Prof Devendra Kanagalingam	Senior Consultant
Adj Asst Prof Tan Wei Ching	Senior Consultant
Adj Asst Prof Hemashree Rajesh	Senior Consultant
Adj Asst Prof Tan Eng Loy	Senior Consultant
Adj Asst Prof Jason Lim Shau Khng	Consultant
Adj Asst Prof Ravichandran Nadarajah	Consultant
Dr Lim Liqing Serene	Associate Consultant
Dr Yang Liying	Associate Consultant
Dr Andy Tan Wei Keat	Associate Consultant
Dr Lee Wai Yen	Associate Consultant
Dr Renuka Devi	Senior Staff Registrar
Liam Lay Peng Christine	Senior Secretary
Geetha D/O Arumuga Vandayar	Associate Executive

**E. BST and AST**

S/N	NAME
1	Dr Goh Siak Ming

S/N	NAME
1	Dr Shilla Mariah Yussof
2	Dr Geetha Visvalingam

**F. Residency Cohort****I) Senior Residency, Year 6 (2011 Intake)**

S/N	NAME
1	Dr Chua Ka-Hee
2	Dr Chuah Theng Theng
3	Dr Ho Weng Yan
4	Dr Huang Youjin Eugene
5	Dr Jung Jingjin Jacqueline
6	Dr Koh Meiling Serena
7	Dr Lee Cheng Sim Jill
8	Dr Lee Wai Kheong Ryan
9	Dr Lim Hui Ping Michelle
10	Dr Seet Meei Jiun
11	Dr Tan Shu Qi
12	Dr Thain Pei Ting Serene
13	Dr Tung Su Zhen Janice

**II) Senior Residency, Year 6 (2012 Intake)**

S/N	NAME
1	Dr Ee Tat Xin
2	Dr Foo Anqi, Sharon
3	Dr Ho Ping Ling
4	Dr Hui Yan Yan Celene
5	Dr Kho Chye Lee Lily
6	Dr Koe Suan-Li Liana
7	Dr Lim Yu Hui
8	Dr Muhammad Fairuz B Abdul Rahman
9	Dr Ng Xin Hui Ada
10	Dr Qi Maili
11	Dr Wan Kai Jing
12	Dr Samantha Rachel Yeo Mei-E

**III) Junior Residency, Year 5 (2013 Intake)**

S/N	NAME
1	Dr Ang Xiao Hong Joella
2	Dr Lim Ee-Lin Sheri
3	Dr Ho Xin Yi
4	Dr Li Xin Yi
5	Dr Mok Zhun Wei
6	Dr Ng Zheng Yuan
7	Dr Tan Chiew Ping Caroline
8	Dr Tan Wan Chin Julia
9	Dr Wong Ker Yi
10	Dr Yip Swee Lin

**IV) Junior Residency, Year 4 (2014 Intake)**

S/N	NAME
1	Dr Chua Hui Kiang Angeline
2	Dr Goh Shu Ying Charissa
3	Dr Ku Chee Wai
4	Dr Lee Jia Yi
5	Dr Lim Whui Whui
6	Dr Loh Jia Min Michelle
7	Dr Ng Qiu Ju
8	Dr Ng Yang Huang Grace
9	Dr Shivani Durai
10	Dr Tong Carmen

**V) Junior Residency, Year 3 (2015 Intake)**

S/N	NAME
1	Dr Stella Rizalina Sasha
2	Dr Han You Xiang Jonathan
3	Dr Kwek Lee Koon
4	Dr Liu Jiayi
5	Dr Pamela Sandriany Partana
6	Dr Poo Zi Xi
7	Dr Ng Yifan
8	Dr Pang Si Ying

**VI) Junior Residency, Year 2 (2016 Intake)**

S/N	NAME
1	Dr Cheong Pei Shan Cassandra
2	Dr Chia Xue Ling Michelle
3	Dr Dhilshad Bte Muhd Abdul Qadir
4	Dr He Song
5	Dr Li Mingyue
6	Dr Lim Poh Ting
7	Dr Siew Jia Yun Shayna
8	Dr Smita Lakhotia
9	Dr Wang Wanxuan
10	Dr Yong Xiaoqi

**VII) Junior Residency, Year 1 (2017 Intake)**

S/N	NAME
1	Dr Chia Bin Kai
2	Dr Lau Chang Qi Hester
3	Dr Lee Shi Hui
4	Dr Tan Yin Ru
5	Dr Wong Wan Yu Yvonne

## Academic Medicine Education Institute – Advancing Clinical Educator's Development

Chonkar Sonali, Foo Yang Yann, Prasiddha Rama Rao, Cook Sandy

The Academic Medicine Education Institute (AM•EI) was set up to synergise the educational expertise of Duke-NUS and SingHealth by forming a community of passionate inter-professional educators and leaders in education who are committed to excellence in teaching and learning. One of the institute's main goals is to support SingHealth's pursuit of Academic Medicine, where education is a key thrust. The ultimate outcome is to improve patient care by upholding education excellence. A key mission is to support the educational activities of the Academic Clinical Programmes by developing, mentoring and retaining the best educators for our students, residents, other trainees and faculty. AM•EI also stimulates and supports the development of innovative educational programmes and academic approaches to learning. There is sharing of educational experiences, ideas and skillsets among the education community that helps shape the future of academic medicine education. AM•EI is committed to enhancing the capabilities of each and every educator and building a pipeline of quality educators who can groom future generations of healthcare professionals. This supports the spirit of Generativity, which is developing excellent healthcare educators who contribute to building up other healthcare professionals in a vibrant learning environment, promote care innovation, and ultimately improve patient outcomes. AM•EI is for anyone with a role and/or strong interest in education. Its members include senior educators, doctors, nurses, allied health and other health professionals, healthcare administrators as well as aspiring educators (e.g. trainees and Residents), all sharing the common goal to enhance teaching and raise standards in healthcare education. AM•EI recognises that each healthcare educator has different aspirations and needs. They have a roadmap for educators classified into three levels in SingHealth and Duke-NUS.

AM•EI provides courses and workshops to develop the skills of our educators guided by the AM•EI Core Standards for Healthcare Educators framework.



This framework was adapted from Academy of Medical Educators. Professional Standards (3rd edn, 2014). Cardiff: Academy of Medical Education, 2014.

A special program, highlighting a key Pedagogy at Duke-NUS, is the Fellowship in Team Based Learning (FTBL). This is a Learner-Centered Pedagogy approach that promotes a high degree of learners' engagement, understanding and application of knowledge and skills using TBL. The programme has three levels of certificates; recognized by the Team-based Learning Collaborative (TBLC): Fundamentals, Practitioner, Consultant Trainer. The course was developed and is taught by leading faculty from the Duke-NUS Medical School Singapore with a high level of TBL experience and expertise. Another signature program is the AM•EI Education Leadership Programme (AMLead). It is a longitudinal program that brings together an interprofessional community of healthcare educators to develop their education leadership skills. The programme aims to equip healthcare professionals in key educational positions to enable them to lead their organisations effectively.



To facilitate answering the question of “What program should I take” - AM•EI has developed the Educator’s Learning Needs Assessment (ELNA), a self-administered mobile application (<https://webapps.duke-nus.edu.sg/edu/elna/>). It is designed to identify how frequently faculty apply the AM•EI’s core learning standards in practice and track their growth trajectory over time as an educator. Educators also receive recommendations for AM•EI Faculty Development workshops designed to enhance their skills and can track their workshop attendance. The AM•EI Distinguished Lectures feature renowned healthcare experts who will share insights on education in Academic Medicine, innovation in pedagogical methods and educational research. The lectures are designed to enrich the education landscape in Duke-NUS and SingHealth which enables professionals to exchange ideas at the forefront of healthcare education. AM•EI also offers customised faculty development workshops to tailor to individual departments/ institutions’ training needs. Some sample programmes that are available for customisation include Bedside Teaching – Focus on Micro-skills, Strategies for Giving Feedback, Assessment, and more. These are prepared in collaboration with the department’s educators, with the aim to ensure relevance and sustainability.

### Recognition and Academic Support

At SingHealth and Duke-NUS, educators play an important role for continuous learning and improvement in the pursuit of Academic Medicine. AM•EI believes that excellence in teaching by incorporating innovation will enhance engagement and imbue the spirit of inquiry in learners, thereby contributing to better healthcare education. Hence, they offer the AM•EI Golden Apple Awards, a series of award categories with the aim to recognise and encourage educators for their passion and dedication to demonstrate excellence in teaching. The AM•EI Golden Apple Awards honour the best in healthcare education who have transformed teaching by engaging and inspiring learners. The AM•EI serves as a resource base to members who are interested in healthcare educational research and scholarship to facilitate the building of their expertise that will lead to the publication of findings. AM•EI works with its members in their development of the educational research/evaluation methodology, as well as support and mentor members in the translation and application of their educational findings into practical approaches. It also provides inter-disciplinary platforms for educators to network, exchange ideas and build collaborations. Monthly journal clubs provide a platform for informal discussions and critical thinking over specific topics related to medical education research and scholarship. The AM•EI also supports an education grant that serves as a catalyst to stimulate the development, evaluation and educational research around educational related projects. In summary, at AM•EI, clinical educators can discover and grow their education potential by joining the enthusiastic community!

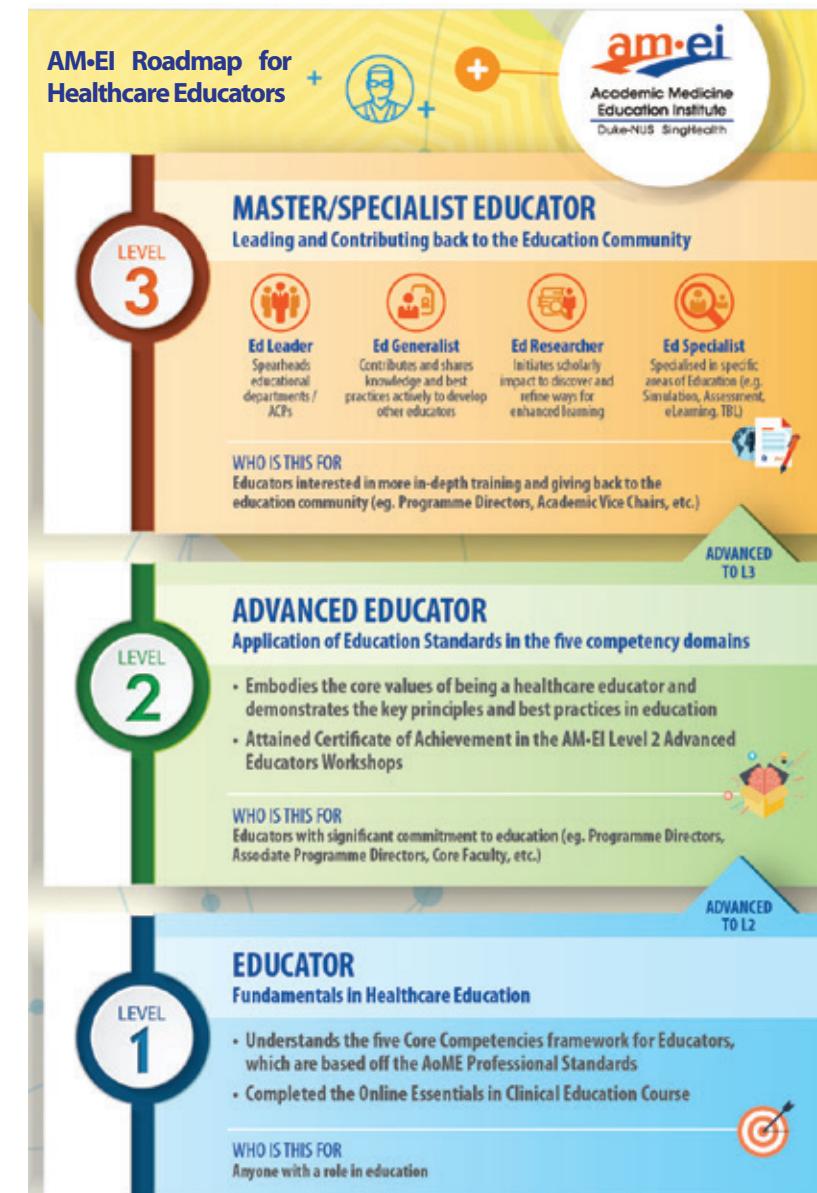
### Contributors:

Dr Chonkar Sonali - Staff Physician, KK Women’s and Children’s Hospital, Adjunct-Assistant Prof, Duke-NUS

Dr Foo Yang Yann - Lead Associate, AM•EI

Ms Prasiddha Rama Rao - Associate Educator, AM•EI

Prof Sandy Cook - Deputy Director, AM•EI and Senior Associate Dean & Deputy Head, Office of Education, Duke-NUS

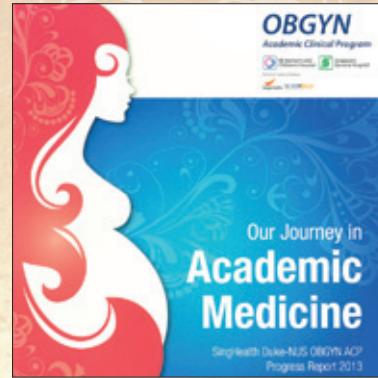


# HELP US CHANGE WOMEN'S LIVES



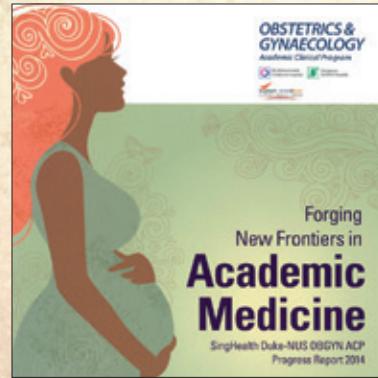
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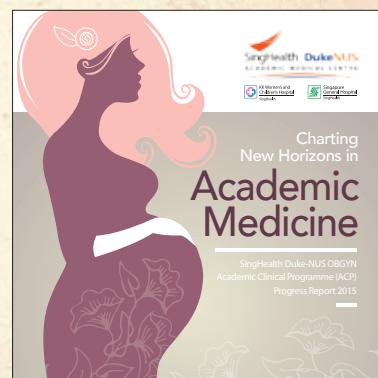
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Academic Medical Centre  
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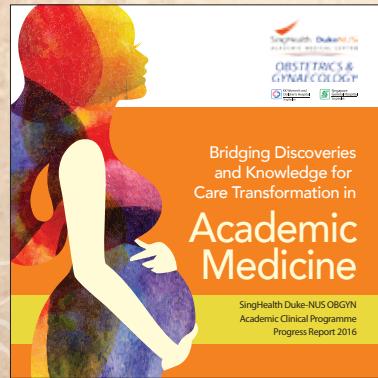
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Medicine 2015



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Academic Medical Centre  
Bridging Discoveries and Knowledge for  
Care Transformation in Academic  
Medicine 2016



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Progress Review & Report Publications of  
SingHealth Duke-NUS OBGYN Academic  
Clinical Programme, SingHealth Duke-NUS  
Academic Medical Centre  
Advancing Together in Academic  
Medicine 2017



O&G research and education help us change the lives of women and give them and their babies a healthy future. You can help to translate medical breakthroughs into cures, fund programmes to improve care, or even shape the next generation of leaders in healthcare.

# OUR PIONEER MEDICAL RESEARCH & ADVANCES

- 1 Pioneered in-vitro fertilisation (IVF) research in Asia, producing the region's first IVF baby and first Gamete Intra-Fallopian Transfer (GIFT) baby.
- 2 Performed Singapore's first IVF treatment and live birth for a patient with ovarian cancer
- 3 Invented a new procedure to create an artificial vagina for women born without a vagina (Sheares Operation).
- 4 Conducted Asia's only human papilloma virus (HPV) vaccine trial FUTURE II Study – a worldwide trial on a vaccine that is now widely used to protect women against cervical cancer.
- 5 Partnered the global MAGPIE trial, establishing Magnesium Sulphate as the gold standard of care for treatment of hypertension in pregnancy (pre-eclampsia).

## HOW YOUR GIFT CAN CHANGE MEDICAL SCIENCE

When you give to the OBGYN Academic Clinical Program, your gift helps to develop better methods to predict, prevent and treat disease, and prepare the next generation to lead in research that improves medical care.

Professor Tan Kok Hian and his team discovered potential new biological markers that can identify women at risk of pre-eclampsia (high blood pressure) during pregnancy. This helps doctors to provide early intervention for the safety of the mother and baby.

## Advancing Women's Health

The **Women's Health Research and Education Fund** under SingHealth Duke-NUS OBGYN ACP focuses on advancing women's health relating to:



*"Academic Medicine is evolving the way we deliver care to patients. We appeal to your generosity in helping us continue to strive towards a higher standard of clinical excellence for the future."*  
Assoc Prof Bernard Chern Su Min  
Academic Chair  
SingHealth Duke-NUS OBGYN ACP

*"Our mission is to deliver excellent O&G services, education and research to ensure world-class outcomes. Your support helps us improve methods of dealing with disease and create a vibrant academic medicine culture."*  
Assoc Prof Tan Hak Koon  
Academic Deputy Chair  
SingHealth Duke-NUS OBGYN ACP



**GIVE A LITTLE. HELP A LOT**

**CONTACT US TODAY!**

Email: [obgyncco@singhealth.com.sg](mailto:obgyncco@singhealth.com.sg)



**SingHealth Duke-NUS Obstetrics and Gynaecology  
Academic Clinical Programme**

**Editorial Team:**

Kurup A, Ng MJ, Tan HK, Tan KH, Chern B

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Information correct as of 31 March 2018