



Department of Obstetrics and Gynaecology
Queen Mary Hospital
The University of Hong Kong



Gynaecological Oncology

Annual Report 2018



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**HKU
Med**

LKS Faculty of Medicine
Department of Obstetrics
& Gynaecology
香港大學婦產科學系

Message from Division Head

The gynaecological oncology division of the Department of Obstetrics and Gynaecology, the University of Hong Kong, has been providing training and service in gynaecological oncology for over 50 years. Our unit is a tertiary referral center for both the private and public sectors in Hong Kong. We also accept referrals from the hospitals in Macau. With collaboration with other departments, our scope of services includes colposcopy, chemotherapy, radiotherapy, surgery and palliative care.

Our unit is a recognized training center for gynaecological oncology by the Hong Kong College of Obstetricians and Gynaecologists (HKCOG) and the Royal College of Obstetricians and Gynaecologists (RCOG). In 2018, we had Dr. Carmen Choi with us for her third year of subspecialist training in gynaecological oncology. Apart from training subspecialist fellow, we also provide gynaecological oncology training for basic and higher specialist trainees in Obstetrics and Gynaecology, not only from our unit but also other hospitals in Hong Kong.

In November 2018, we invited Professor Sean Kehoe, a gynaecologic oncologist from the University of Birmingham in the United Kingdom as the 33rd Aw Boon Haw Visiting Professor. In December 2018, we held a Gynaecological Oncology Surgical Workshop and invited experts from overseas including: Professor Eric Leblanc from the Département de Cancérologie Gynécologique, Centre Oscar Lambret, Lille, France; Dr Peter Lim from the University of Nevada School of Medicine, The Center of Hope, Renown Regional Medical Center, Reno, Nevada, USA; and Dr. Tae Joong Kim from the Department of Obstetrics and Gynecology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, South Korea.

In addition to the clinical service and research activities, our division was also active in promoting women's health in Hong Kong by giving public talks and presentation in the Family Planning Association, radio and TV programmes. In October 2018, our unit has organized the annual event of Care You Deserve Charity Walk with The Hong Kong Anti-Cancer Society with an aim to increase the public awareness to women's cancer.

I would like to take this opportunity to thank our team members and our collaborators for their contribution



H.Y.S. Ngan
Tso Yin-Kai Professor
Head of Department

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Staff List

Gynaecological Oncologists

Professor Ngan Yuen Sheung Hextan, Professor, Department of Obstetrics and Gynaecology, University of Hong Kong

Dr. Chan Kar Loen Karen, Associate Professor, Department of Obstetrics and Gynaecology, University of Hong Kong

Dr. Tse Ka Yu, Associate Professor, Department of Obstetrics and Gynaecology, University of Hong Kong

Dr. Chu Man Yee Mandy, Consultant, Department of Obstetrics and Gynaecology, Queen Mary Hospital

Dr. Ngu Siew Fei, Assistant Professor, Department of Obstetrics and Gynaecology, University of Hong Kong

Subspecialist Trainee

Dr. Choi Ka Man Carmen, Associate Consultant, Department of Obstetrics and Gynaecology, Pamela Youde Nethersole Eastern Hospital

Specialist Gynaecologists

Dr. Cheng Mei Chi Maggie, Associate Consultant, Department of Obstetrics and Gynaecology, Queen Mary Hospital (1 Jan – 30 Jun 2018)

Dr. Chung Carmen Diana, Resident Specialist, Department of Obstetrics and Gynaecology, Queen Mary Hospital (1 Jul – 31 Dec 2018)

Residents

Dr. Ng Wai Yan Vivian, Resident, Department of Obstetrics and Gynaecology, Queen Mary Hospital (15 Feb – 31 Mar 2018)

Dr. Lai Hei Tung Theodora, Resident, Department of Obstetrics and Gynaecology, Queen Mary Hospital (1 Apr – 15 May 2018)

Dr. Tong Yu Wing Paul, Resident, Department of Obstetrics and Gynaecology, Queen Mary Hospital (1 Jul – 30 Sep 2018)

Dr. Ip Nga Ping Patricia, Resident, Department of Obstetrics and Gynaecology, Queen Mary Hospital (1 Dec – 30 Dec 2018)

Clinical Oncologists

Dr. Luk Mei Yee, Chief of Service, Department of Clinical Oncology, Queen Mary Hospital

Dr. Kwong Wai Kay Philip, Consultant, Department of Clinical Oncology, Queen Mary Hospital

Dr. Liu Rico, Consultant, Department of Clinical Oncology, Queen Mary Hospital

Dr. Siu Wai Kwan Steven, Associate Consultant, Department of Clinical Oncology, Queen Mary Hospital

Pathologists

Professor Ng Oi Lin Irene, Head of Department, Department of Pathology, University of Hong Kong

Professor Cheung Nga Yin Annie, Professor, Department of Pathology, University of Hong Kong

Dr. Ip Pun Ching Philip, Associate Professor, Department of Pathology, Queen Mary Hospital

Consultant Colorectal Surgeon

Professor Law Wai Lun, Professor, Department of Surgery, Queen Mary Hospital

Dr. Ho Judy, Consultant, Department of Surgery, Queen Mary Hospital

Consultant Urologist

Dr. Tsu Hok Leung James, Consultant & Division Chief, Department of Surgery, Queen Mary Hospital

Consultant Plastic Surgeon

Dr. Chow Ling Yu Velda, Consultant & Division Chief, Department of Surgery, Queen Mary Hospital

Consultant Medical Oncologist

Professor Kwong Yok Lam, Division of Haematology, Medical Oncology and Bone Marrow Transplantation, Department of Medicine, University of Hong Kong

Consultant Radiologist

Dr. Lam Wai Man Wendy, Chief of Service, Department of Radiology, Queen Mary Hospital

Dr. Lee Yuen Phin Elaine, Assistant Professor, Department of Radiology, University of Hong Kong

Consultant Anaesthesiologist

Professor Michael Irwin, Chief of Service, Department of Anaesthesiology, Queen Mary Hospital

Consultant Clinical Psychologist

Dr. Lina Wu, Senior Clinical Psychologist, Department of Psychiatry, Queen Mary Hospital

Medical Social Workers

Ms Lui Man Li, Social Welfare Department

Nurse Specialist in Stoma Care

Ms. Chan Lai Hung, Nursing Officer, Queen Mary Hospital

Cluster Rehabilitative Palliative Care Team

Dr. Chan Kwok Ying, Consultant, Palliative Medicine Unit, Grantham Hospital

Dr. Li Cho Wing Brian, Associate Consultant, Palliative Medicine Unit, Grantham Hospital

Ms. Ho Suk Hing, Registered Nurse, Grantham Hospital

Clinical Research Team

Ms Lau Suk Kwan Lesley, Research Co-ordinator

Dr. Wei Na Tina, Research Co-ordinator

Ms. Chan Kin Yan Janice, Research Assistant

Ms. Yu Ping Ching Amy, Research Nurse (part-time)

Laboratory

Staff

Dr. Chan Wai David, Assistant Professor
Dr. Leung Ho Yin Thomas, Post-doctoral Fellow
Dr. Yung Ming Ho Mingo, Post-doctoral Fellow
Dr. Liu Si Stephanie, Research Officer
Dr. Siu Kwan Yee Michelle, Research Officer
Mr. Chan Chan Keung Milton, Technician
Dr. Chan Yau Sang, Senior Research Assistant
Dr. Chu Kit Hang Daniel, Research Assistant
Miss Tang Wai Man Hermit, Research Assistant
Miss HUI Man Ning, Lynn, Research Assistant
Miss Lo Sze Victoria, Research Assistant

Services

Hormonal assay and assays for tumour markers

Research tools

| | |
|----------------------------------|------------------------------------|
| HPV detection and genotyping | |
| ELISA | Cell line and culture |
| Immunohistochemistry | Transfection study |
| In situ hybridization assay | RNAi study |
| DNA, RNA and protein extractions | Apoptotic assay |
| Conventional PCR and RT-PCR | Clonogenic assay |
| Quantitative PCR | Cytotoxicity assay |
| Quantitative RT-PCR | Cell proliferation assay |
| RNA protection assay | DNA copy number variation analysis |
| Western blot | Protein co-immunoprecipitation |
| DNA methylation analysis | Gene cloning |
| DNA sequencing | In vivo animal study |
| Microarray analysis | Laser-captured microdissection |
| Hypoxia chamber | |
| Flow cytometry | |
| Yeast two hybrid | |

Fluorescent microscopy

Fluorescent stereomicroscopy

Li-Cor Odyssey CLx near-infrared fluorescence imaging system

Gel documentation system

Microplate reader

SpectraMax L Microplate Reader

Inpatient Services

Gynaecological oncology ward

22 beds in the open ward
2 private beds
3 day beds

Ward Manager

Ms. Hui Fung Ping, Susanna

Operating Theatre

2 Full-day lists per week

Operating Theatre Manager

Ms. Sylvia Wong

Outpatient Services

| | |
|----------------------------|-----------------------|
| Colposcopy Clinic | 4 sessions per week |
| Chemotherapy Clinic | 1 session per week |
| Cancer follow-up Clinic | 1 session per week |
| Trophoblastic Clinic | 1 session per week |
| Day Chemotherapy | 5 days per week |
| Patient Group Meeting | 1 session per 3 weeks |
| Palliative Medicine Clinic | 1 session per week |
| Pre-admission Clinic | 1 session per week |

Clinic In-charge

Ms. Chung Suk Man, Advanced Practice Nurse, S5, Queen Mary Hospital

Team Activities

| | |
|--|-------------|
| Grand Round (Led by Prof. Hextan Ngan) | 1 per week |
| Discussion of New Cases and Treatment (Led by Prof. Hextan Ngan) | 1 per week |
| Radiology Meeting (Led by Prof. Hextan Ngan and Dr. Elaine Lee) | 1 per week |
| Chemotherapy Meeting (Led by Prof. Hextan Ngan) | 1 per week |
| Morbidities and Mortality Meeting (Led by Prof. Hextan Ngan) | 1 per week |
| Pre-operative Round (Led by Prof. Hextan Ngan) | 1 per week |
| Tumour Board Meeting/Pathology Review (Led by Prof. Hextan Ngan and Prof. Annie Cheung) | 1 per week |
| Laboratory Research Meeting (Led by Prof. Hextan Ngan) | 1 per month |
| Clinical Research Meeting (Led by Prof. Hextan Ngan) | 1 per month |

Outpatient Statistics

| Oncology Clinics Attendances | 2014 | 2015 | 2016 | 2017 | 2018 |
|-------------------------------------|------|------|------|------|-------------|
| Cancer Follow-up Clinic | 4244 | 4249 | 4010 | 4183 | 4322 |
| Trophoblastic Clinic | 795 | 766 | 907 | 856 | 726 |
| Chemotherapy Clinic | 1879 | 2082 | 1894 | 1758 | 2044 |
| Preadmission Clinic | - | - | - | - | 95 |

Patient Group Meeting

Oncology patients support group which was led by:

Ms. Susanna Hui (Ward Manager)
Ms. Tang Lai Chun (Advanced Practice Nurse)
Ms. Cheng Sze Ki (Registered Nurse)
Ms Tam Siu Man (Registered Nurse)

Stoma patients support group which was led by:

Ms. Susanna Hui (Ward Manager)
Ms. Chan Lai Hung (Nursing Officer)
Ms Tam Siu Man (Registered Nurse)

Oncology patient support group:

Total no. of sessions: 6
Total no. of attendance: 33 patients + 21 relatives = 54

Stoma patient support group:

Total no. of sessions: 3
Total no. of attendance: 28 patients + 3 relatives = 31

Annual patient group party:

Attendance: 64 patients + 15 relatives = 79

Colposcopy Services

Colposcopy Clinics

Queen Mary Hospital

4 sessions - Monday afternoon, Tuesday morning, Thursday and Friday afternoon

1 research session – Wednesday afternoon

Cervical Smear Clinics (run by nurses)

Queen Mary Hospital

3 session - Monday afternoon, Tuesday morning and Thursday afternoon

WDTC

4 sessions - Monday and Tuesday (full day)

Statistics

| | |
|-----------|------|
| New Cases | 569 |
| Follow-up | 1589 |

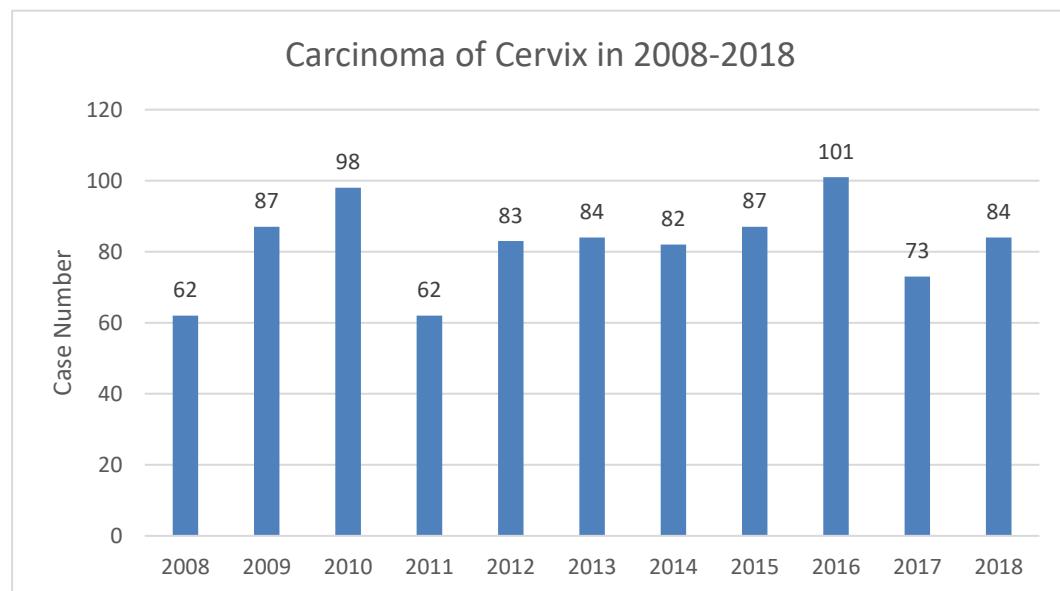
| Diagnosis (based on worst histology) | Cervix | Vagina | Vulva |
|---|---------------|---------------|--------------|
| Normal | 102 | 9 | 0 |
| Inflammation | 41 | 0 | 0 |
| Warts/HPV | 105 | 6 | 0 |
| Low grade squamous intraepithelial lesion | 190 | 20 | 0 |
| High grade squamous intraepithelial lesion | 102 | 17 | 1 |
| Microinvasive carcinoma | 3 | 0 | 0 |
| Squamous cell carcinoma | 4 | 0 | 0 |
| Adenocarcinoma | 3 | 1 | 0 |
| Adenocarcinoma in-situ | 2 | 0 | 0 |
| No histology | 88 | 19 | 3 |
| Unsatisfactory for assessment | 10 | 2 | 0 |
| Others | | | |
| Atrophy | 1 | 1 | |
| Atypical cells | 1 | | |
| Endocervical polyp | 6 | | |
| Intestinal metaplasia | 1 | | |
| Lichen sclerosus | | | 1 |
| Mycobacterial infection | 1 | | |

Procedures

| | |
|--|-----|
| Cone biopsy | 4 |
| Cryotherapy | 1 |
| Large loop excision of transformation zone | 115 |
| Under local anaesthesia | 101 |
| Under general / spinal anaesthesia | 14 |

Cervical Malignancies

| Year | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------|------|------|------|------|------|------|------|------|------|------|-------------|
| Number of New cases | 62 | 87 | 98 | 62 | 83 | 84 | 82 | 87 | 101 | 73 | 84 |
| Stage I | 28 | 49 | 36 | 26 | 36 | 42 | 42 | 43 | 36 | 36 | 33 |
| Stage II | 25 | 17 | 35 | 27 | 22 | 21 | 19 | 17 | 26 | 18 | 24 |
| Stage III | 8 | 13 | 11 | 4 | 15 | 16 | 14 | 12 | 14 | 11 | 11 |
| Stage IV | 1 | 4 | 5 | 3 | 5 | 3 | 2 | 6 | 8 | 3 | 9 |
| Unstaged | 0 | 2 | 3 | 1 | 1 | 1 | 3 | 0 | 5 | 2 | 4 |
| Recurrence | 0 | 2 | 8 | 1 | 4 | 1 | 2 | 9 | 12 | 3 | 3 |



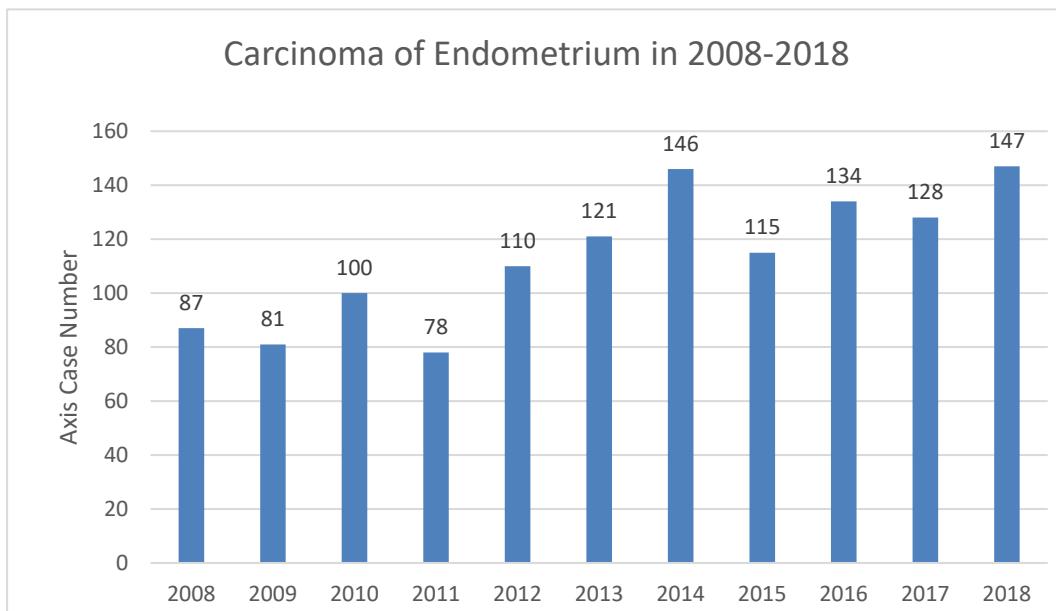
2018 New Case

| Stage | Age | | |
|------------|-----|-------|----|
| Stage I | 33 | ≤ 30 | 1 |
| Stage II | 24 | 31-40 | 14 |
| Stage III | 11 | 41-50 | 19 |
| Stage IV | 9 | 51-60 | 22 |
| Unstaged | 4 | 61-70 | 12 |
| Recurrence | 3 | 71-80 | 12 |
| Total | 84 | > 80 | 4 |
| | | Total | 84 |

Uterine Malignancies

Carcinoma of Endometrium

| Year | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------|------|------|------|------|------|------|------|------|------|------|-------------|
| Number of New cases | 87 | 81 | 100 | 78 | 110 | 121 | 146 | 115 | 134 | 128 | 147 |
| Stage I | 43 | 43 | 64 | 45 | 64 | 70 | 83 | 69 | 88 | 81 | 88 |
| Stage II | 10 | 7 | 10 | 5 | 10 | 8 | 16 | 10 | 10 | 11 | 14 |
| Stage III | 21 | 10 | 15 | 16 | 23 | 25 | 26 | 18 | 23 | 24 | 26 |
| Stage IV | 6 | 4 | 4 | 5 | 4 | 5 | 12 | 7 | 9 | 6 | 13 |
| Unstaged | 3 | 12 | 6 | 4 | 7 | 10 | 8 | 7 | 2 | 3 | 5 |
| Recurrence | 4 | 5 | 1 | 3 | 2 | 3 | 1 | 4 | 2 | 3 | 1 |



2018 New Case

| Stage | Age |
|------------|-----------|
| Stage I | ≤ 30 1 |
| Stage II | 31-40 11 |
| Stage III | 41-50 31 |
| Stage IV | 51-60 47 |
| Unstage | 61-70 41 |
| Recurrence | 71-80 9 |
| Total | > 80 7 |
| | Total 147 |

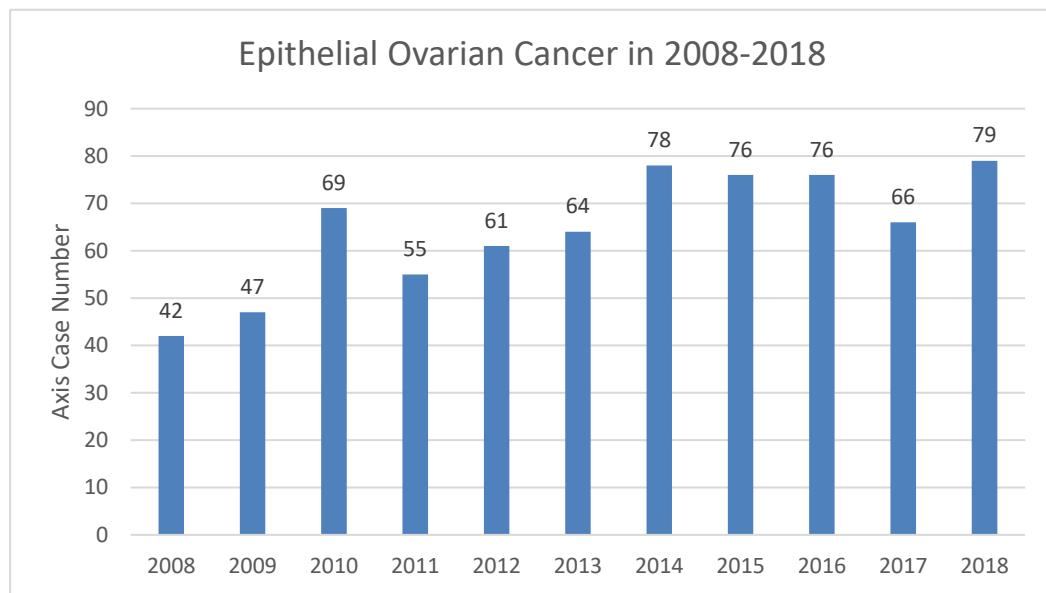
Other Uterine Malignancies

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|--|------|------|------|------|-------------|
| Endometrial stromal sarcoma | 3 | 3 | 5 | 3 | 8 |
| Leiomyosarcoma | 6 | 6 | 5 | 14 | 7 |
| Malignant mixed mullerian tumor (MMMT) | 14 | 5 | 8 | 11 | 8 |
| Adenosarcoma | 2 | 0 | 0 | 1 | 0 |
| Chondrosarcoma | 0 | 0 | 0 | 1 | 0 |
| Rabdomysarcoma | 0 | 0 | 0 | 1 | 0 |
| Smooth muscle tumour of undetermined malignant potential (STUMP) | 1 | 1 | 3 | 0 | 1 |
| Dedifferentiated endometrial carcinoma | 0 | 0 | 0 | 1 | 0 |
| Undifferentiated endometrial sarcoma | 0 | 2 | 0 | 0 | 0 |
| Uterine tumour resembling ovarian sex cord tumour | 0 | 0 | 0 | 1 | 0 |
| Uterine small cell carcinoma | 0 | 0 | 1 | 0 | 1 |
| Undifferentiated carcinoma | 0 | 0 | 1 | 1 | 4 |

Ovarian Malignancies

Epithelial Ovarian Cancer

| Year | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------|------|------|------|------|------|------|------|------|------|------|-------------|
| Number of New cases | 42 | 47 | 69 | 55 | 61 | 64 | 78 | 76 | 76 | 66 | 79 |
| Stage I | 12 | 21 | 21 | 22 | 26 | 30 | 25 | 22 | 32 | 14 | 27 |
| Stage II | 5 | 3 | 4 | 6 | 9 | 7 | 7 | 5 | 4 | 11 | 2 |
| Stage III | 9 | 11 | 13 | 21 | 16 | 16 | 32 | 33 | 16 | 22 | 14 |
| Stage IV | 8 | 4 | 15 | 6 | 4 | 10 | 9 | 10 | 13 | 12 | 14 |
| Unstaged | 1 | 0 | 7 | 0 | 2 | 1 | 1 | 1 | 2 | 1 | 1 |
| Recurrence | 7 | 8 | 9 | 0 | 4 | 0 | 4 | 5 | 9 | 6 | 21 |



2018 New Case

| Stage | | Age | |
|------------|----|-----------|----|
| Stage I | 27 | ≤ 30 | 2 |
| Stage II | 2 | 31-40 | 7 |
| Stage III | 14 | 41-50 | 31 |
| Stage IV | 14 | 51-60 | 24 |
| Unstage | 1 | 61-70 | 14 |
| Recurrence | 21 | 71-80 | 1 |
| Total | 79 | > 80 | 0 |
| Stage I | 27 | Total | 79 |

Ovarian Tumour of Low Malignant Potential

| Year | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------|------|------|------|------|------|------|------|------|------|------|-------------|
| Number of new cases | 21 | 15 | 13 | 8 | 19 | 19 | 19 | 18 | 13 | 22 | 12 |
| Stage I | 18 | 12 | 11 | 7 | 15 | 14 | 15 | 16 | 6 | 19 | 10 |
| Stage II | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 2 | 0 |
| Stage III | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 2 | 1 | 0 | 1 |
| Unstaged | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Recurrence | 1 | 1 | 1 | 1 | 2 | 0 | 1 | 0 | 4 | 1 | 0 |

Germ Cell Tumour

1 patient had stage 1a immature teratoma

Sex Cord-Stromal Tumour

2 patients had stage Ia granulosa cell tumour

1 patient had stage 1c granulosa cell tumour

1 patient had stage 1a Sertoli-Leydig cell tumour

Other Ovarian Malignancies

1 patient had stage 2b carcinosarcoma of ovary

1 patient had stage 3a carcinosarcoma of ovary

1 patient had stage 3c undifferentiated adenocarcinoma or carcinosarcoma of ovary

1 patient had stage 4 poorly differentiated adenocarcinoma of ovary

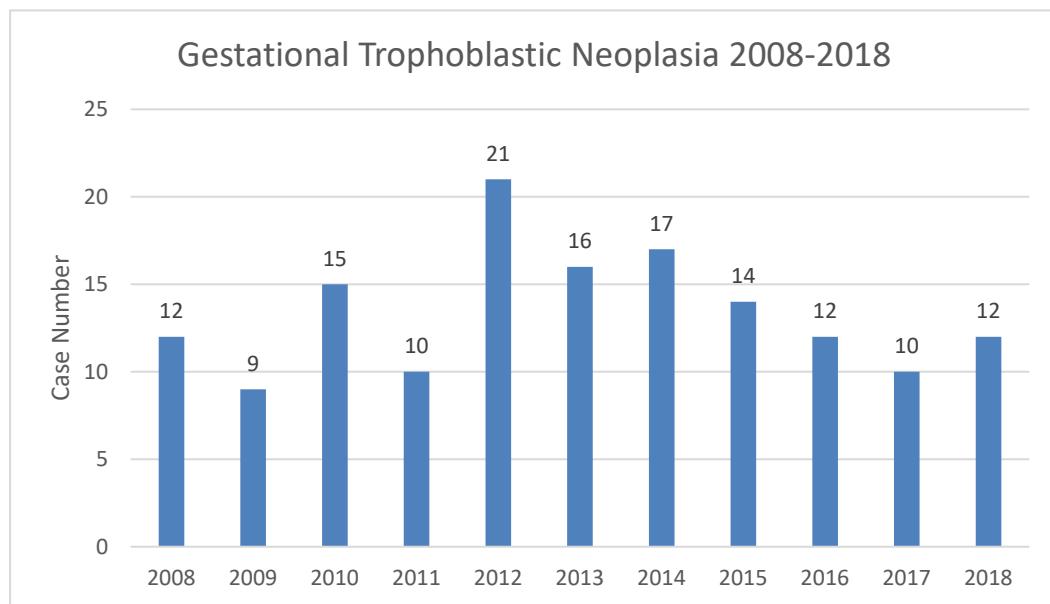
1 patient had low grade sarcoma of ovary

Primary Peritoneal Carcinoma

| Year | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------|------|------|------|------|------|------|------|------|------|------|-------------|
| Total | 8 | 10 | 19 | 3 | 13 | 10 | 10 | 9 | 15 | 9 | 11 |
| Stage II | | | | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| Stage III | | | | 1 | 5 | 7 | 4 | 7 | 9 | 1 | 6 |
| Stage IV | | | | 2 | 5 | 3 | 4 | 1 | 4 | 3 | 4 |
| Unstaged | | | | 0 | 1 | 0 | 1 | 0 | 1 | 4 | 1 |
| Recurrence | | | | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |

Gestational Trophoblastic Neoplasia

| Year | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------|------|------|------|------|------|------|------|------|------|------|-------------|
| Number of New cases | 12 | 9 | 15 | 10 | 21 | 16 | 17 | 14 | 12 | 10 | 12 |
| Stage I | 9 | 6 | 10 | 9 | 18 | 12 | 10 | 8 | 8 | 8 | 9 |
| Stage II | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Stage III | 3 | 2 | 1 | 0 | 2 | 2 | 5 | 2 | 2 | 2 | 2 |
| Stage IV | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 1 | 1 | 0 | 0 |
| Unstaged | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Recurrence | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |



2018 New case

| Stage | | Age | |
|------------|----|-----------|----|
| Stage I | 9 | ≤ 30 | 3 |
| Stage II | 1 | 31-40 | 6 |
| Stage III | 2 | 41-50 | 2 |
| Stage IV | 0 | > 50 | 1 |
| recurrence | 0 | Total | 12 |
| Total | 12 | | |

Vulval, Vaginal and Fallopian Tube Cancers

Vulval Cancer

| Year | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------------|------|------|------|------|------|------|------|------|------|------|-------------|
| Number of | | | | | | | | | | | |
| New cases | 8 | 8 | 11 | 5 | 8 | 7 | 9 | 6 | 6 | 9 | 12 |
| Stage I | 3 | 1 | 5 | 0 | 2 | 4 | 4 | 0 | 3 | 6 | 2 |
| Stage II | 3 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 4 |
| Stage III | 2 | 2 | 2 | 2 | 1 | 1 | 3 | 1 | 1 | 3 | 1 |
| Stage IV | 0 | 2 | 1 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 1 |
| Unstaged | 0 | 1 | 2 | 2 | 1 | 0 | 1 | 1 | 1 | 0 | 2 |
| Recurrence | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 2 |

Vaginal Cancer

| Year | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------------|------|------|------|------|------|------|------|------|------|------|-------------|
| Number of | | | | | | | | | | | |
| New cases | 4 | 4 | 0 | 5 | 8 | 3 | 3 | 5 | 7 | 5 | 5 |
| Stage I | 1 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| Stage II | 1 | 2 | 0 | 4 | 1 | 1 | 1 | 4 | 5 | 1 | 3 |
| Stage III | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 2 |
| Stage IV | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 2 | 0 |
| Unstaged | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Recurrence | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |

Fallopian Tube Cancer

| Year | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|------------|------|------|------|------|------|------|------|------|------|------|-------------|
| New Cases | 0 | 3 | 0 | 0 | 1 | 0 | 3 | 2 | 5 | 4 | 2 |
| Stage I | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| Stage II | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 |
| Stage III | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 1 |
| Stage IV | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 0 |
| Unstaged | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Recurrence | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

Multiple Primary Malignancies

Number
2018 **24**

| Primary | Stage | Primary | Stage | Number |
|----------------|--------------|--|--------------|---------------|
| Corpus | I | Ovarian Epithelial | I | 5 |
| | I | Ovarian Epithelial | II | 4 |
| | I | Ovarian Epithelial | III | 2 |
| | I | Cervix | I | 2 |
| | I | Fallopian tube | I | 1 |
| | I | Uterine STUMP | | 1 |
| | I | Carcinoma of lung | | 1 |
| | II | Ovarian Epithelial | I | 1 |
| | II | Ovarian Epithelial | II | 1 |
| | II | Ovarian Epithelial | IV | 1 |
| Cervix | I | Ovarian Epithelial | I | 1 |
| | II | Rectum | III | 1 |
| | III | Bladder | IV | 1 |
| Ovary | I | Ovarian Epithelial (Different histology on contralateral side) | II | 1 |
| | I | Fallopian tube | I | 1 |

Triple primary case - Nil

Operation for Malignant/Pre-malignant Diseases

| | Number of procedures |
|--|----------------------|
| Laparotomy (all cases with open abdominal surgery) | 91 |
| Radical hysterectomy +/- unilateral / bilateral salpingo-ophorectomy (U/BSO) | 3 |
| Laparoscopic radical hysterectomy +/- U/BSO | 2 |
| Laparoscopic radical hysterectomy +/- U/BSO (Da Vinci) | 13 |
| Modified radical hysterectomy +/- U/BSO | 8 |
| Laparoscopic modified radical hysterectomy +/- U/BSO (Da Vinci) | 3 |
| Total abdominal hysterectomy +/- U/BSO | 65 |
| Total laparoscopic hysterectomy +/- U/BSO | 52 |
| Total laparoscopic hysterectomy +/- U/BSO (Da Vinci) | 26 |
| Laparoscopic radical trachelectomy (Da Vinci) | 0 |
| Pelvic lymphadenectomy (one side) | 73 |
| Laparoscopic pelvic lymphadenectomy (one side) | 28 |
| Laparoscopic pelvic lymphadenectomy (one side) (Da Vinci) | 74 |
| Paraaortic lymphadenectomy | 33 |
| Laparoscopic paraaortic lymphadenectomy | 3 |
| Laparoscopic paraaortic lymphadenectomy (one side) (Da Vinci) | 28 |
| Omentectomy | 47 |
| Laparoscopic omentectomy | 10 |
| Laparoscopic omentectomy (Da Vinci) | 11 |
| Adhesiolysis | 23 |
| Laparoscopic adhesiolysis | 5 |
| Laparoscopic adhesiolysis (Da Vinci) | 5 |
| BSO / USO / ovarian cystectomy | 15 |
| Laparoscopic BSO / USO / ovarian cystectomy | 4 |

| | |
|--|----|
| Appendicectomy | 8 |
| Laparoscopic appendicectomy | 3 |
| Laparoscopic appendicectomy (Da Vinci) | 0 |
| Debulking surgery | 28 |
| Bowel resection and re-anastomosis | 10 |
| Colostomy / ileostomy | 6 |
| Closure of stoma | 5 |
| Repair of bowel | 2 |
| Repair of bladder | 0 |
| Repair of vessels | 1 |
| Repair of vagina / perineum | 2 |
| Vault stripping / vaginectomy | 7 |
| Wide local excision | 7 |
| Radical vulvectomy | 7 |
| Groin node dissection (one side) | 8 |
| Cone biopsy | 2 |
| Large loop excision of transformation zone | 3 |
| Brachytherapy | 43 |
| Removal or insertion of central line insertion | 3 |
| Diagnostic hysteroscopy | 14 |
| Hysteroscopic polypectomy | 2 |
| Suction evacuation | 0 |
| Laparoscopic myomectomy | 1 |
| Excision of vaginal lesion | 1 |
| Laparoscopic biopsy | 6 |
| Diagnostic laparoscopy | 6 |
| Examination under anaesthesia | 2 |
| Cystoscopy | 0 |

Chemotherapy

Total number of patients receiving in-patient chemotherapy: 222

Total number of patients receiving out-patient chemotherapy: 237

Total number of patients receiving oral chemotherapy: 7

Total number of patients receiving PARP inhibitors: 12

| Chemotherapy Regimen | Number of courses | |
|--|--------------------------|------------|
| | In patient | Outpatient |
| Adriamycin | 8 | 12 |
| Adriamycin/Cisplatin | 4 | 6 |
| Adriamycin/Ifosfamide | 14 | 0 |
| *Avelumab | 3 | 27 |
| BEP (bleomycin, etoposide, cisplatin) | 7 | 3 |
| Bevacizumab | 26 | 53 |
| Carboplatin | 2 | 18 |
| Carboplatin/Etoposide | 2 | 4 |
| Carboplatin/Gemcitabine | 46 | 63 |
| Carboplatin/Gemcitabine/Bevacizumab | 2 | 1 |
| Carboplatin/Liposomal doxorubicin | 2 | 8 |
| Carboplatin/Paclitaxel | 240 | 519 |
| *Carboplatin/Paclitaxel/Avelumab | 21 | 0 |
| Carboplatin/Paclitaxel/Bevacizumab | 17 | 23 |
| Cisplatin | 62 | 63 |
| Cisplatin/Gemcitabine | 5 | 15 |
| Cisplatin/Gemcitabine/Bevacizumab | 2 | 3 |
| Cisplatin/Paclitaxel | 10 | 0 |
| Cisplatin/Paclitaxel/Bevacizumab | 8 | 0 |
| Cyclophosphamide (oral) | 0 | 0 |
| EMA-CO (etoposide, methotrexate and actinomycin D/ cyclophosphamide and vincristine) | 23 | 0 |
| EP-EMA (etoposide and cisplatin / etoposide, methotrexate, and actinomycin-D) | 0 | 0 |
| Etoposide (oral) | 1 | 2 |
| Gemcitabine | 23 | 62 |

| | | |
|--|------------|-------------|
| Gemcitabine/Taxotere | 3 | 17 |
| Ifosfamide | 0 | 0 |
| Ifosfamide/Paclitaxel | 9 | 0 |
| Liposomal doxorubicin | 24 | 52 |
| Liposomal doxorubicin/Bevacizumab | 4 | 6 |
| Melphalan | 0 | 13 |
| Methotrexate (intravenous) | 30 | 0 |
| Methotrexate/Actinomycin D | 11 | 0 |
| Olaparib | 0 | 96 |
| Pemetrexed | 2 | 6 |
| Paclitaxel | 8 | 1 |
| Paclitaxel/Bevacizumab | 0 | 1 |
| Taxotere | 0 | 3 |
| Topotecan | 47 | 44 |
| XELOX (capecitabine and oxaliplatin) | 0 | 3 |
| Total number of courses of chemotherapy | 666 | 1124 |

* Clinical trial

Publications

Scholarly books, monographs and chapters

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Abstracts

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Editorship, Invited Lectures and Keynote Speeches

Chan D.W., The tumor microenvironment on ovarian cancer progression and the potential target-based therapy, In: University Grants Committee, Hong Kong, RGC Public Lectures: Cancer Therapy: Immunotherapy and Medicine. 2018.

Chan K.K.L., Case Sharing- use of PARP-I for Ovarian Cancer, International Society of Precision Cancer Medicine (ISPCM) conference 2018 Busan, Korea 3/2018.

Chan K.K.L., Fertility Sparing Treatment in Gynaecological Malignancies, FOCUS in O&G 2018 Congress. 2018.

Chan K.K.L., Robotic Surgery In Gynaecological Cancer, Hong Kong College of Obstetrics and Gynaecology 30th anniversary symposium. 2018. (Publication No. : 292401; Weighting : 1.0000)Ngan H.Y.S., " Cervical Cancer and HPV Disease" and presented 2 topics on Tips and Tricks on "High risk HPV positive –cytology negative-what to do?" and "Abnormal glandular cell at Pap Smear", Meet the Expert Session, Malaysian International Scientific Congress of O&G 2018, Kuala Lumpur, Malaysia, July 26-29. 2018.

Ngan H.Y.S., "Prognostic and predicting factors including HPV" at the Multidisciplinary Tumour Board on "Recurrent cervical cancer", European Society of Medical Oncology (ESMO) Asia Congress, Singapore, November 23-25, 2018.

Ngan H.Y.S., 17th Biennial Meeting of the International Gynecologic Cancer Society (IGCS), Kyoto, Japan, September 13-16, "Surgical management of GTD" at the Young Doctors' forum and to deliver a talk at the main conference on "How

can we improve FIGO staging". 2018.

Ngan H.Y.S., Advances in Cervical Cancer Screening Beyond the Pap Smear, RCOG World Congress 2018, Singapore, March 21-24. 2018.

Ngan H.Y.S., Cervical Cancer Prevention and Control, 2018 New Advances in Management of Cervical Diseases Workshop, Wenzhou, China, April 21. 2018.

Ngan H.Y.S., Cervical Cancer Prevention and Control, The 2nd HN -SCCP cervical cancer precancerous lesion and cervical cancer hotspot conference, Xiangya Hospital, Central South University, Hunan, China, May 5-6. 2018.

Ngan H.Y.S., Choice of Treatment Modalities in Cervical Cancer, The 3rd Oriental Congress of Obstetrics and Gynecology, Shanghai, China, July 13-15. 2018.

Ngan H.Y.S., Current Advancements of PARP inhibitor in Europe/HK, Ovarian & Breast Cancer – Advancements in Diagnostic & Therapeutic Landscape Exchange Meeting, Hong Kong, 27 January. 2018.

Ngan H.Y.S., Endometrial Cancer – Current Management, Malaysian International Scientific Congress of O&G: Where Advanced Technology, Scientific Evidence & Clinical Skills Meet, Penang, Malaysia, March 25. 2018.

Ngan H.Y.S., Fertility Sparing Options in the Management of Gynaecological Cancers, The ASGO symposium, Malaysian International Scientific Congress of O&G 2018, Kuala Lumpur, Malaysia, July 26-29. 2018.

Ngan H.Y.S., How to decide which treatment is appropriate in cervical cancer, The 4th Chinese Society of Colposcopy and Cervical Pathology (CSCCP) conference, Shenzhen China, May 24-27. 2018.

Ngan H.Y.S., Maintenance Therapy in Ovarian Cancer, The First Ovarian Cancer Sumit 2018, Beijing, China, June 30. 2018.

Ngan H.Y.S., Minimally invasive surgery for early stage Cervical Cancer, 20th Seminar of Standardized Treatment and Progress of Gynecologic Cancers, Symposium of Precision Medicine in Gynecological Oncology, Shanghai, China, November 9-11. 2018.

Ngan H.Y.S., Screening and management of pre-invasive disease in AOGIN countries, The Asia Oceania Research Organization on Genital Infection and Neoplasia (AOGIN) conference and the 32th International Papillomavirus Conference (IPVC), Sydney, Australia, October 2-6. 2018.

Ngan H.Y.S., The training of a gynaecological oncologist, Chongqing, China, March 30. 《第十五届妇科肿瘤学 术大会暨中国妇科肿 瘤青年医师高峰论坛》, 2018.

Ngan H.Y.S., Trophoblastic disease – current management, Pre-congress workshop, Malaysian International Scientific Congress of O&G 2018, Kuala Lumpur, Malaysia, July 26-29. 2018.

Ngan H.Y.S., Updates on Management Options for Gestational Trophoblastic Disease, RCOG World Congress 2018, Singapore, March 21-24. 2018.

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Ngan H.Y.S., “Cancer cervix – When to use adjuvant treatment and managing advanced disease”, Pre-congress workshop, Malaysian International Scientific Congress of O&G 2018, Kuala Lumpur, Malaysia, July 26-29. 2018.

Ngu S.F., Diagnosis & Management Of Abnormal Ps & Cin In Adolescent, Hospital Authority Obstetrics and Gynaecology Commissioned Training on 2017/18. 2018.

Ngu S.F., HPV test vs PAP for Cervical Screening, Hong Kong Sanatorium & Hospital CME in Obstetrics & Gynaecology. 2018.

Ngu S.F., HPV test vs PAP for Cervical Screening, Update on Management of Gynaecological Cancer, Postgraduate Study Day, Department of Obstetrics & Gynaecology, The University of Hong Kong. 2018.

Ngu S.F., Self-sampling cervical cancer screening, 33rd The Royal Thai College of

Obstetricians and Gynaecologists Annual Meeting, Dusit Thani, Pattaya City, Thailand. 2018.

Tse K.Y., Multi-disciplinary team practice for ovarian cancer in Hong Kong, Macau Association of Precision Medicine. 2018.

Tse K.Y., Vulval intraepithelial neoplasia, The XXII FIGO World Congress of Gynecology and Obstetrics. 2018.

Prizes and Awards

Ngan H.Y.S., Chan K.K.L., Tse K.Y., Chu M.Y.M., Ngu S.F. and Hui S., QMH/TYH Outstanding Teams (Walk Together with One Heart), HKWC cum QMH/TYH Outstanding Staff & Teams Award and Young Achiever Award for 2018.

Ngan H.Y.S., Recognition of Women Obstetricians/Gynaecologists at the General Assembly, XXII World Congress of Gynecology and Obstetrics, 13-19 October, 2018 Rio de Janeiro, Brazil. 2018.

Ngu S.F., Travel Grant for Young Oncologists for ESMO Asia 2018, European Society for Medical Oncology (ESMO) / Hong Kong Cancer Therapy Society. 2018.

