

長庚大學醫學系六年級
九十七學年第二學期
課程大綱

上課日期(起)	上課日期(迄)	課程名稱
2009-01-05 (一)	2009-01-06 (二)	麻醉科學 (Anesthesiology)
2009-01-05 (一)	2009-01-20 (二)	婦產科學(Obstetrics and Gynecology)
2009-01-07 (一)	2009-02-21 (一)	外科學(Surgery)
2009-01-07 (三)	2009-05-13 (三)	醫學倫理學(Medical Ethics)
2009-01-10 (六)	2009-03-21 (六)	放射治療學(Radiation Therapy)
2009-01-21 (三)	2009-01-23 (五)	眼科學(Ophthalmology)
2009-02-02 (一)	2009-02-04 (三)	皮膚科學(Dermatology)
2009-02-04 (三)	2008-02-06 (五)	耳鼻喉科學 (Otorhinolaryngology)

課程名稱：外科學(Surgery)

學年：97

學期：2

年級：6

課程大綱

教科書：

1. Hans Troidl, Walter O. Spitzer, Bucknam McPeck, David S. Mulder, Martin F. McKneally. Principles and Practice of Research – Strategies for Surgical Investigators. Springer-Verlag New York Inc., 2nd Edition, 1990.
2. Bernard R. Glick, Jack J. Pasternak. Molecular Biotechnology- Principles and Applications of Recombinant DNA. American Society for Microbiology, 3rd Edition, 2003.

1. 林天佑等中華現代外科學全書,台灣商務印書館
2. Sabiston Textbook of Surgery By saunders 17th Edition, 2004.
3. 外科學原理手冊 作者:孫長怡 合記出版社 1997 1e
4. 基礎外科學問題診斷與處理 作者:曾昱綸等編譯合記出版社 89/6 初版二刷
5. Principles of Surgery, Schwartz's 8th Edition, 2004.

參考書：

1. Reconstructive Plastic Surgery Volume 1: General Principles By Converse
2. Surgery of the Chest 2 Vols By Sabiston
3. .419-4350 Essential Neurosurgery By Kaye Churchill-Livingstone
4. Surgery of the Anus Rectum and Colon 2Vols By Keighley
5. 451-7499 Textbook of Musculoskeletal Disease By Salter Lippincott
6. Fundamental of Orthopedics By Gartland
7. Essentials of Neurosurgery By Spencer & Smith
8. Pediatric Surgery By ashcraft

整體教學目標：

教導外科疾病的診斷、治療及預防。

教學方法：

以上課為基礎，做系統性的講解及討論。重視雙向溝通，提昇學生的理解。

中文課程簡介：

包括外科的所有的次專科課程：一般外科、泌尿科、心臟外科、胸腔外科、神經外科、小兒外科、大腸直腸外科、整形外科、外傷科及骨科。

英文課程簡介：

Surgery is comprised of 9 divisions : General surgery 、Neurosurgery 、Urology 、Orthopedics 、Pediatrics 、Plastic surgery 、Proctology 、Thoracic and Cardiovascular surgery and Traumatic surgery

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成績考核：

期中考(50%)+期末考(50%)

教學進度

項次	上課日期/ 星期	開始/結束 時間	時 數	授課教 師	教學進度
1	2009-01-07 (三)	10:10-11:00	1	唐瑞平	<u>Cancer Genomics in Surgery</u>
2	2009-01-07 (三)	11:10-12:00	1	游耀東	<u>Clinic Evaluation and Treatment of Idiopathic Constipation</u>
3	2009-01-07 (三)	13:10-14:00	1	張慧朗	<u>Clinical Bioinformatics</u>
4	2009-01-07 (三)	14:10-15:00	1	林志鴻	<u>Reconstruction for trauma disorder</u>
5	2009-01-07 (三)	15:10-16:00	1	劉會平	<u>Lung, VATS</u>
6	2009-01-07 (三)	16:10-17:00	1	李威震	<u>Transplantation immunology</u>
7	2009-01-08 (四)	11:10-12:00	1	陳晃洋	<u>Varicose vein</u>
8	2009-01-08 (四)	13:10-14:00	1	謝宏昌	<u>Vascular Surgery</u>
9	2009-01-08 (四)	14:10-15:00	1	林炳川	<u>An integrated approach to trauma and resuscitation</u>
10	2009-01-08 (四)	15:10-16:00	1	葉俊男	<u>The pancreas and spleen</u>
11	2009-01-08 (四)	16:10-17:00	1	陳力輝	<u>Degenerative disc disease of lumbar spine</u>
12	2009-01-09 (五)	9:10-10:00	1	李石增	<u>Functional neurosurgery</u>
13	2009-01-09 (五)	10:10-11:00	1	詹益銀	<u>The biliary system</u>
14	2009-01-09 (五)	11:10-12:00	1	沈陳石銘	<u>Surgical complications ,including infection and sepsis</u>
15	2009-01-09 (五)	13:10-14:00	1	江支銘	<u>Disease of anus and perineum</u>
16	2009-01-09 (五)	14:10-15:00	1	王正儀	<u>Principles of preoperative preparation of the surgery patient</u>
17	2009-01-09 (五)	15:10-16:00	1	周逢復	<u>Malabsorption syndrome, short bowel syndrome</u>
18	2009-01-09 (五)	16:10-17:00	1	李威震	<u>liver transplantation</u>
19	2009-01-12	9:10-10:00	1	王植熙	<u>Hemostasis and disorders in surgical bleeding</u>

	(一)				
20	2009-01-12 (一)	10:10-11:00	1	賴勁堯	<u>Common surgical diseases in the pediatric age</u>
21	2009-01-12 (一)	11:10-12:00	1	張北葉	<u>Paediatric surgery and anorectal malformation</u>
22	2009-01-12 (一)	13:10-14:00	1	駱至誠	<u>Introduction to pediatric surgery – care for the surgical neonates</u>
23	2009-01-12 (一)	14:10-15:00	1	趙子傑	<u>Endocrine disease</u>
24	2009-01-12 (一)	15:10-16:00	1	謝敏璋	<u>Chest Wall, Mediastinum, Trachea</u>
25	2009-01-12 (一)	16:10-17:00	1	蔡峰鈞	<u>Adult Cardiac Surgery</u>
26	2009-01-12 (一)	17:10-18:00	1	詹益聖	<u>Bone and Joint Infection / Hyperbaric Oxygen Therapy</u>
27	2009-01-13 (二)	9:10-10:00	1	張仁平	<u>Aortic Surgery and CABG</u>
28	2009-01-13 (二)	10:10-11:00	1	黃燦龍	<u>Fluid and electrolyte management of the surgical patient</u>
29	2009-01-13 (二)	11:10-12:00	1	黃燦龍	<u>Surgical nutrition and morbid obesity</u>
30	2009-01-13 (二)	14:10-15:00	1	張毓翰	<u>Tissue engineering and stem cell</u>
31	2009-01-13 (二)	15:10-16:00	1	莊錦豪	<u>Surgical diseases of newborns</u>
32	2009-01-13 (二)	16:10-17:00	1	朱肇基	<u>Congenital Cardiac Surgery</u>
33	2009-01-14 (三)	10:10-11:00	1	陳敏夫	<u>Ethics in surgical practice</u>
34	2009-01-14 (三)	11:00-12:00	1	陳敏夫	<u>The liver</u>
35	2009-01-14 (三)	13:10-14:00	1	陳進勛	<u>Diverticular diseases and chronic ulcerative colitis</u>
36	2009-01-14 (三)	14:10-15:00	1	何治軍	<u>Cervical spine degenerative</u>
37	2009-01-14 (三)	15:10-16:00	1	林萍章	<u>Legal Aspects in Surgical Practice</u>
38	2009-01-15 (四)	16:10-17:00	1	陳文哲	<u>Spinal deformity</u>
39	2009-01-15 (四)	10:10-11:00	1	張簡俊榮	<u>Heritable colorectal cancer</u>
40	2009-01-15	11:10-12:00	1	葉大森	<u>Endoscopic surgery</u>

	(四)				
41	2009-01-15 (四)	13:10-14:00	1	雷大雅	<u>Paediatric neurosurgery</u>
42	2009-01-15 (四)	15:10-16:00	1	張承能	<u>Neurosurgical oncology</u>
43	2009-01-15 (四)	16:10-17:00	1	陳志豐	<u>Thoraco-Lumbar degenerative disease</u>
44	2009-01-16 (五)	10:10-11:00	1	許文蔚	<u>Sports injury</u>
45	2009-01-16 (五)	11:10-12:00	1	楊仁宗	<u>Neurosurgical emergency and infectious diseases in neurosurgery</u>
46	2009-01-19 (一)	14:10-15:00	1	陳訓徹	<u>The breast</u>
47	2009-01-16 (五)	15:10-16:00	1	林子淦	<u>Neurosurgical vascular disorder</u>
48	2009-01-19 (一)	16:10-17:00	1	王嘉修	<u>Surgery for the common diseases of the stomach and duodenum</u>
49	2009-01-19 (一)	10:10-11:00	1	王俊聞	<u>Surgery for arthritis</u>
50	2009-01-19 (一)	11:10-12:00	1	吳怡成	<u>Esophagus, Pleura, Diaphragm</u>
51	2009-01-19 (一)	13:10-14:00	1	吳基銓	<u>Principles in the management of fractures and dislocations</u>
52	2009-01-19 (一)	14:10-15:00	1	陳孝文	<u>Pediatric urology, endourology, and laparoscopic surgery</u>
53	2009-01-19 (一)	15:10-16:00	1	李宗料	<u>Congenital deformities in orthopedic practice</u>
54	2009-01-19 (一)	16:10-17:00	1	陳永仁	<u>Bone metabolism and metabolic bone disease</u>
55	2009-01-20 (二)	9:10-10:00	1	王清貞	<u>Recent Advance in Orthopedic Surgery</u>
56	2009-01-20 (二)	10:10-11:00	1	施信農	<u>Neoplasms of musculoskeletal system</u>
57	2009-01-20 (二)	12:10-13:00	1	張承仁	<u>Cosmetic surgery</u>
58	2009-01-20 (二)	13:10-14:00	1	徐榆堡	<u>Response to injury</u>
59	2009-01-20 (二)	14:10-15:00	1	陳國鼎	<u>Maxillofacial surgery, congenital or acquired</u>
60	2009-01-20 (二)	15:10-16:00	1	莊垂慶	<u>Introduction of plastic surgery</u>
61	2009-01-20	16:10-17:00	1	鄭明輝	<u>Principles of Microsurgery</u>

	(二)				
62	2009-01-21 (三)	10:10-11:00	1	林有德	<u>Hand surgery</u>
63	2009-01-21 (三)	11:10-12:00	1	楊瑞永	<u>Burn Wound healing</u>
64	2009-01-21 (三)	13:10-14:00	1	朱聖賢	<u>Kidney disease and Renal transplantation</u>
65	2009-01-21 (三)	14:10-15:00	1	魏福全	<u>New trends and technologies in reconstructive surgery</u>
66	2009-01-21 (三)	15:10-16:00	1	崔克宏	<u>Geriatric Urology</u>
67	2009-01-21 (三)	16:10-17:00	1	陳昱瑞	<u>Craniofacial surgery, philosophy and art</u>
68	2009-01-21 (三)	10:10-11:00	1	謝明里	<u>Disorders of Prostate and Andrology</u>
69	2009-01-22 (四)	11:10-12:00	1	莊正鏗	<u>Urological Oncology</u>
70	2009-01-22 (四)	13:10-14:00	1	陳文祥	<u>Urolithiasis, Urinary obstruction</u>
71	2009-01-22 (四)	14:10-15:00	1	陳志碩	<u>Female urology and sexual dysfunction</u>
72	2009-01-22 (四)	10:10-11:00	1	唐瑞平	<u>Cancer Genomics in Surgery</u>

課程名稱：外科學(Surgery)

第 1 單元

授課主題：Cancer Genomics in Surgery

教師：唐瑞平

授課時間：50 分鐘

PowerPoint：40 張

學習目標：Basics knowledge in Genomics especially focusing on surgery-related cancer genomics

大綱：

A. Introduction

B. What is cDNA microarrays and molecular state of cancer?

C. Schema of cDNA microarrays

D. Experimental considerations of cDNA microarray

1. Biological sample
2. Tissue handling
3. Tissue sampling
4. Variability
5. Data analysis

- E. Clinical uses of Genetic expression
 - 1. Cancer diagnosis
 - 2. Prognosis and prediction of outcome
 - 3. Treatment and response
- F. Metastasis and Genetic expression
- G. Conclusion and Future of personalized medicine

第 2 單元

授課主題：Clinic Evaluation and Treatment of Idiopathic Constipation

教師：游耀東

授課時間：50 分鐘

學習目標：學習慢性便秘的臨床診斷、大腸橫越時間的檢測、及大腸無力症的治療

大綱：

- A. Definition of constipation
- B. Pathophysiological Classification of constipation
 - 1. Obvious causes for constipation
 - 2. Colonic dysmotility
 - 3. Abnormal defecation
- C. Series of tests
 - 1. Colon transit time
 - 2. Balloon expulsion test
 - 3. Anal sphincter resting and squeeze pressures
 - 4. Rectal sensitivity
 - 5. Defecography
- D. Management of idiopathic constipation
 - 1. pure colon dysmotility → colectomy
 - 2. pure pelvic outlet obstruction (anismus) → biofeedback anal training
 - 3. colon dysmotility combined with pelvic → outlet obstruction (anismus)
biofeedback anal training ± colectomy

第 3 單元

授課主題：Clinical Bioinformatics

教師：張慧朗

授課時間：50 分鐘

PowerPoint：50 張

學習目標：生物資訊的來源與用處、生物資訊的資料庫與工具、生物資訊在臨床上的應用

大綱：

- A. Definition of clinical bioinformatics
- B. Aims of clinical bioinformatics
 - 1. Building bioinformatics databases
 - 2. Developing tools and resources for analysis of biological data
 - 3. Using tools to interpret the clinical results
- C. Bioinformatics databases

1. Bioinformatics: CBC、NCBI、EMBL-EBI、CGAP、DDBJ
2. Genes: GeneCards、Gene Ontology、Ensembl Mouse
3. Proteins: RCSB、UniProt、ExpASY
4. SNPs: SNP-RFLPing、V-MitoSNP、seeSNP
5. Antibodies: Invitrogen、Abcam、BIOMOL
6. Pathways: KEGG
7. References: PubMed
8. Clinical Trials: ClinicalTrials

D. Developing databases and tools

E. Tools for analysis and interpretation of biological data

1. BLAST (Basic Local Alignment Search Tool)
2. Cluster and Tree View for microarray data analysis
3. Discovery Studio for protein analysis

F. Clinical applications of clinical bioinformatics

G. Personalized Medicine

第 4 單元

授課主題：Reconstruction for trauma disorder

教師：林志鴻

授課時間：50 分鐘

學習目標：手的解剖、功能及重建

大綱：

A. Hand anatomy

B. Thumb functional anatomy

1. Thenar muscle
2. 60-80° to metacarpal arch
3. Unique motion of circumduction

C. Basic hand definition

1. Radial component
2. Ulnar component
3. Opposition

第 5 單元

授課主題：VATS and lung disease

教師：劉會平

授課時間：50 分鐘

PowerPoint：50 張

學習目標：

- A. 學習肺腫瘤及相關肺外科疾病、症狀、診斷、手術適應症及手術方法
- B. 學習微創胸腔鏡手術臨床應用。

大綱：

A. Benign Lung tumor:

1. Symptom / Sign

2. Dx & surgical indications.
 3. Postoperative care
- B. Lung cancer:
1. Clinical staging
 2. Surgical indications.
 3. Postoperative care
 4. Survival
 5. Adjuvant therapy
- C. Surgical lung diseases
1. Bronchiectasis: Surgical indications and postoperative care
 2. Lung abscess: Surgical indications and postoperative care
- D. Video-assisted thoracic surgery (VATS) : Clinical applications.

第 6 單元

授課主題：Transplantation immunology

教師：李威震

授課時間：50 分鐘

學習目標：

- A. understand immunological reaction in organ transplantation.
- B. understand acute rejection in transplantation
- C. understand how to treat acute rejection

大綱：

- A. Purpose of organ or tissue transplantation
- B. MHC molecules in transplantation
- C. Classification of alloantigen presentation in transplantation
 1. Direct pathway
 2. Indirect pathway
- D. Classification of rejection
 1. Hyperacute rejection
 2. Acute rejection
 3. Chronic rejection
- E. Immunological reaction in Transplantation
 1. Antigen presenting cells
 2. T lymphocytes reaction
- F. Treatment of rejection
 1. Immunosuppressants
 2. Mechanisms of immunosuppressive agents
- G. Major topics in transplantation research

第 7 單元

授課主題：Varicose vein

教師：陳晃洋

授課時間：50 分鐘

PowerPoint：40 張

學習目標：

學習靜脈曲張症狀、診斷、手術適應症及手術方法

大綱：

- A. Varicose vein
- B. Chronic venous insufficiency
- C. Diagnosis
- D. Treatment

第 8 單元

授課主題：vascular emergency

教師：謝宏昌

授課時間：50 分鐘

PowerPoint：45 張

學習目標：學習血管外科急症的臨床表徵、診斷、處置及預後

大綱：

- A. Acute venous problems
- B. Acute problems with vascular dialysis access
- C. Acute upper extremity ischemia
- D. Acute leg ischemia
- E. Abdominal aortic aneurysms
- F. Vascular injuries to the neck
- G. Vascular injuries to the thoracic outlet area
- H. Vascular injuries in the arm
- I. Vascular injuries in the leg
- J. Abdominal vascular injuries

第 9 單元

授課主題：An integrated approach to trauma and resuscitation

教師：林炳川

授課時間：50 分鐘

PowerPoint：50 張

學習目標：了解外傷機轉、診斷、判斷多重外傷嚴重度、復甦原則

大綱：

- A. Trauma mechanism
- B. Primary, secondary and tertiary survey
- C. Management of multiple injury
- D. Priority of multiple injury
- E. Damage control resuscitation
- F. Damage control laparotomy

第 10 單元

授課主題：The Pancreas and spleen

教師：葉俊男

授課時間：50 分鐘

PowerPoint：48 張

學習目標：了解胰臟及脾臟正常生理解剖及疾病的處置。

大綱：

- A. 胰臟正常生理解剖
- B. 胰臟：急性胰臟炎、慢性胰臟炎、胰臟癌
- C. 脾臟正常生理解剖

第 11 單元

授課主題：Degenerative disc disease of lumbar spine

教師：陳力輝

時間：50 分鐘

PowerPoint：48 張

學習目標：學習腰椎退化性椎間盤病變的臨床病因、種類、診斷、治療原則

大綱：

- A. pathophysiology of degenerative disc of lumbar spine
- B. Herniation of lumbar disc
 - 1. symptoms and signs
 - 2. clinical diagnosis
 - 3. treatment principle
 - 4. surgical indications
- C. Lumbar spine stenosis
 - 1. pathophysiology of sss
 - 2. clinical presentations
 - 3. general management
- D. Spondylolisthesis
 - 1. classifications
 - 2. clinical diagnosis
 - 3. surgical indications and prognosis

第 12 單元

授課主題：Functional Neurosurgery

教師：李石增

授課時間：50 分鐘

PowerPoint：86 張

學習目標：學習功能性神經外科之演變範圍及手術方法。

大綱：

- A. History of functional neurosurgery
- B. Method of stereotactic surgery
 - 1. Frame system
 - 2. Frameless system
- C. Target for functional Radiosurgery

1. Thalamus
2. Subthalamic ne
3. Globus pallidus

D. Functional development of functional Neurosurgery

第 13 單元

授課主題：The biliary system

教師：詹益銀

授課時間：50 分鐘

PowerPoint：36 張

學習目標：學習膽道系統之解剖、膽囊及膽道疾病之診斷，膽石症之自然史，膽道疾病之治療及手術適應症

大綱：

- A. Diagnosis of Hepatobiliary system
- B. Anatomy and physiology of biliary tract
- C. Natural history of gall stone disease
- D. Treatment of gall bladder stone, bile duct and intrahepatic stones
- E. Pre-operative evaluation of obstructive jaundice

第 14 單元

授課主題：Surgical Complication

教師：沈陳石銘

授課時間：50 分鐘

PowerPoint：43 張

學習目標：外科併發症的壞處、原因、分類、預防及處理

大綱：

- A. Disadvantage of Surgical Complication
- B. Cause of Surgical Complication
- C. How to prevent and minimise Surgical Complication
- D. Principal Categories of Surgical Complication
- E. Complication of any Surgical Complication

第 15 單元

授課主題：Disease of anus and perineum

教師：江支銘

授課時間：50 分鐘

學習目標：To learn common anal and perineal diseases

大綱：

- A. Review of anus and perineum anatomy
- B. Inflammatory:
 1. Hemorrhoid
 2. Pruritus ani
 3. Hypertrophy anal papilla

4. Coccyxdynia

C. Infections disease:

1. Perianal / ischiorectal abscess
2. Anal fistula
3. Fournier's gangrene
4. AIDS
5. Anal condyloma

D. Malignancies:

1. Squamous cell carcinoma
2. Paget's disease
3. Melanoma

E. Functional disease

1. Anismus
2. Paradoxical puborectalis contraction
3. Levator ani syndrome
4. Anal incontinence
5. Perineal descent syndrome

第 16 單元

授課主題：Principles of preoperative preparation of the surgery patient

教師：王正儀

授課時間：50 分鐘

PowerPoint：28 張

學習目標：如何做病人手術前的評估及準備工作，如考試前的準備愈周詳，病人手術的成功機率增加，減少合併症，同時恢復也會加速。

大綱：

Operation is the central action of surgical cares Surgical cares have three different stages

A. Pre-operative assessments

1. History
2. The diagnosis is established from
3. Surgery or not depends on
4. Personal relationship

B. Psychologic preparation

1. Anxiety
2. Fantasy
3. Rumor
4. Hearsay
5. Physician-patient relationship
6. Operative consent

C. Physiologic preparation

1. Blood volume (anemia) and fluid
2. Nutrition

3. Infection

D. Specific organs

1. Heart
2. Lung
3. Liver
4. Kidney
5. Specific systems
6. Other considerations
7. A sample preoperative checklist

第 17 單元

授課主題：Malabsorption syndrome, short bowel syndrome

教師：周逢復

授課時間：50 分鐘

PowerPoint：30 張

學習目標：認識小腸之先天、手術感染引發之疾病及良性、惡性腫瘤。營養吸收及小腸切除引發之症候群。

大綱：

- A. Crohn's disease
- B. Tuberculosis enteritis
- C. Typhoid enteritis
- D. Benign lesions
- E. Peutz-Jegher's syndrome
- F. Malignant lesions
- G. Diverticular disease
- H. Small bowel fistula
- I. Blind loop syndrome
- J. Short bowel syndrome

第 18 單元

授課主題：Liver transplantation

教師：李威震

授課時間：50 分鐘

學習目標：

- A. Understand liver transplantation.
- B. Understand the indications of liver transplantation
- C. Understand prognosis and complication of liver transplantation

大綱：

- A. Purpose of Liver transplantation
- B. Indications and contra-indications of liver transplantation
- C. Organ donors and Organ allocation
- D. Classification of liver transplantation
 1. Decreased liver transplantation

- 2. live donor liver transplantation
- E. Liver transplantation technique
 - 1. Whole liver transplantation
 - 2. Split liver transplantation
 - 3. live donor liver transplantation
- F. Treatment of rejection
- G. Complications of liver transplantation
 - 1. Immunosuppressive adverse effects
 - 2. Infection
 - 3. Vascular complications
- H. Special topics in Liver transplantation
 - 1. Hepatitis B
 - 2. Hepatitis C
 - 3. Hepatocellular carcinoma

第 19 單元

授課主題：Hemostasis and disorders in surgical bleeding

教師：王植熙

授課時間：50 分鐘

PowerPoint：30 張

學習目標及大綱：

- A. Introduction- Biology of hemostasis
 - nEvaluation of the surgical patients as a hemostatic disorders
 - nCongenital Hemostatic disorders
 - nAcquired hemostatic disorders
 - nBlood transfusion
- B. Hemostasis
 - Primary vs. Secondary vs. Tertiary
 - Primary Hemostasis
 - Platelet Plug Formation
 - Dependent on normal platelet number & function
 - Initial Manifestation of Clot Formation
 - Secondary Hemostasis
 - Activation of Clotting Cascade, Deposition & Stabilization of Fibrin
 - Tertiary Hemostasis
 - Dissolution of Fibrin Clot
 - Dependent on Plasminogen Activation
- C. Primary Hemostasis
 - An immediate (seconds to minutes) but temporary response to vessel injury.
 - Platelets and von Willebrand factor (vWF) interact to form a primary plug, after which platelet activation occurs and blood vessels constrict, limiting flow.
- D. Secondary Hemostasis
 - A slower process (minutes to hours) that results in the formation of a fibrin clot.

Coagulation is initiated when vascular damage exposes extravascular tissue factor to factor VII, with subsequent activation of factors V, VIII, and XI, leading to accelerated and sustained generation of thrombin, conversion of fibrinogen to fibrin, and formation of a durable clot

E. Severe infections (e.g. septicemia)

Malignant disease (metastatic carcinoma, leukemia)

Shock

Severe burns

ABO incompatibility

Obstetric disorders

Eclampsia

Abruptio placentae

Amniotic fluid embolism

Retained dead fetus

Intravascular hemolysis (infusion of hypotonic saline, systemic absorption of hypotonic fluid after prostatectomy)

F. Volume replacement-Management

n \leq 20%: crystalloid solution

n20~50%: crystalloid solution + PRBC

n>50%: crystalloid solution + PRBC + plasma

n>50%, continued: plus FFP for citrate

nElectrolytes: 3-4x lost volume

nDiffusion into interstitial space

G. Risks of transfusion

Potentially dangerous drug

Transfusion reaction

Hemolytic (incompatible) transfusion

Non-hemolytic (febrile and allergic) reaction

antibody to WBC or plasma protein

Transmission of disease

Virus (HBV, HCV, HIV) and bacteria

immunosuppression

Embolism

Over-transfusion and pulmonary edema

第 20 單元

授課主題：Common surgical diseases in the pediatric age

教師：賴勁堯

授課時間：50 分鐘

PowerPoint：30 張

學習目標：學習兒童外科常見疾病的診斷、治療及預後。本部分不包含新生兒，新生兒外科有專門一堂課。

大綱：

- A. 兒童外科的特性
- B. 兒童外科常見的門診手術 (minor operations)
 - 1. Inguinal hernia
 - 2. Undescended testis
 - 3. Phimosi
 - 4. Congenital neck cyst and fistula
- C. 兒童外科常見的急診手術 (emergent operations)
 - 1. Acute appendicitis
 - 2. Intussusception
 - 3. Hollow organ perforation
- D. 兒童外科常見的住院手術 (major operations)
 - 1. GI system
 - (1). Gastroesophageal reflux
 - (2). Meckel's diverticulum
 - 2. Hepatobiliary system
 - (1). Choledochal cyst
 - (2). Biliary atresia
 - 3. Chest
 - (1). Pectus excavatum
 - (2). Empyema
 - (3). Pneumothorax
 - 4. Oncology
 - (1). Neuroblastoma
 - (2). Wilms' tumor
 - (3). Hepatoblastoma
 - (4). Rhabdomyosarcoma
 - (5). Germ cell tumor

第 21 單元

授課主題：Padiatric surgery and anorectal malformation

教師：張北葉

授課時間：50 分鐘

PowerPoint：37 張

學習目標：先天畸形手術的演變；如何發現異常與嬰兒發展正常現象的區別。

大綱：

- A. Normal development of prepuce
- B. Pros and cons of neonatal and children circumcision
- C. Spectrum of imperforate anus
- D. Development and concept of posterior-sagittal anorectal plasty

第 22 單元

授課主題：Introduction to pediatric surgery – care for the surgical neonates

教師：駱至誠

授課時間：50 分鐘

PowerPoint：28 張

學習目標：認識小兒外科和成人外科的差異,並學習如何在小兒在手術前後照護的知識
大綱：

- A. Difference between pediatric and adult surgery
- B. The importance of prenatal diagnosis, transportation of surgical newborn
- C. Temperature maintains (neutral thermal zone)—various kind of warmer equipment
- D. Intravenous fluid
 - 1. 各個種類 IV fluid 使用的時機
 - 2. 正確的使用量極其評估
- E. Respiration monitor and respirator
- F. Nutrition amount and monitor, TPN

第 23 單元

授課主題：Endocrine diseases

教師：趙子傑

授課時間：50 分鐘

PowerPoint：45 張

學習目標：學習內分泌疾病的診斷、外科治療及預後。

大綱：

- A. Thyroid diseases
 - 1. Anatomy of thyroid gland
 - 2. Classification of thyroid diseases
 - 3. Diagnosis of benign and malignant thyroid diseases
 - 4. Surgical treatment of thyrotoxicosis
 - 5. Surgical treatment of benign nontoxic goiters
 - 6. Surgical treatment of malignant thyroid tumors
- B. Parathyroid diseases
 - 1. Anatomy of parathyroid gland
 - 2. Classification of parathyroid diseases
 - 3. Diagnosis of parathyroid diseases
 - 4. Surgical treatment of parathyroid diseases
- C. Insulinoma
 - 1. Diagnosis of insulinoma
 - 2. Surgical treatment of insulinoma

第 24 單元

授課主題：Chest Wall, Mediastinum, Trachea

教師：謝敏璋

授課時間：50 分鐘

學習目標：學習氣管、縱膈腔、肋膜之外科解剖，疾病之種類，臨床病程及診斷，以及外科治療之術式、結果及預後。

大綱：

- A. Trachea anatomy tumor, stricture, post-trachea complication and surgical management including stenting.
- B. Mediastinum anatomy.
 - 1. tumor origin from different anatomic site has its identity.
 - 2. myasthenia gravis classification, nature course, surgical indication and surgical approach (including Thoracoscopic, (VATS) method), result & prognosis.
- C. Pleura disease
 - 1. Pleural effusion & empyema – pathogenesis, staging and treatment, timing of Thoracoscopic surgery.
 - 2. Pneumothorax, Bullous disease – indication of surgery and thoracoscopic procedures.
 - 3. Chest trauma – Blunt & sharp trauma.
 - (1) first aid management
 - (2) pneumothorax. Hemothorax. Hemopneumothorax. Ribs Fracture.
 - (3) Flail chest
 - (4) Traumatic Asphyxia
 - (5) Diaphragmatic injury
 - (6) Esophageal injury
 - (7) Great vessels injury
 - (8) Cardiac injury
- D. Each immediate diagnosis method, management for life saving, prevent further complication.
- E. Indication & timing of surgery, (Thoracotomy or Mediastrotomy).

第 25 單元

授課主題：I. How to perform open heart surgery; II. Valvular heart surgery

教師：蔡峰鈞

授課時間：50 分鐘

PowerPoint：19 張

學習目標：I. 了解開心手術如何進行。II. 瓣膜手術的選擇與術後注意事項。

大綱：

- A. History of open heart surgery
- B. How to perform open heart surgery:
 - 1. Cardiopulmonary bypass machine: basic equipment and function
 - 2. Step by step open heart procedures demonstration
- C. Valvular surgery
 - 1. Common pathologies in different valvular disease
 - 2. Choices of valvular prosthesis and their indications
 - 3. Prophylaxis of prosthetic valve endocarditis
 - 4. Food interactions with coumdin

第 26 單元

授課主題：I. Aortic Dissection ; II. Coronary Artery Bypass Grafting (CABG)

Surgery

教師：張仁平

授課時間：50 分鐘

PowerPoint：79 張

學習目標：I. 學習主動脈剝離之機轉、診斷，臨床意涵、治療及預後；II. 學習冠狀動脈繞道之演進，臨床意涵、未來發展。

大綱：

I.

A. Images of Aortic Dissection:

1. Type A: Intraoperative, Figure, CT, Operative movie
2. Type B: Intraoperative, Figure, CT

B. Variation of Aortic Dissection related aortopathy and the evolving strategy:

1. Marfan syndrome with Annuloaortic Ectasia (AAE).
2. Historical views of surgery for AAE.
 - (1). Separated valve and aortic replacement
 - (2). Bentall operation
 - (3). Root remodeling and reimplantation
 - (4). Stentless bioprosthesis full root replacement

C. State of the art: EndoVascular Aortic Repair and Thoracic EVAR (TEVAR)

D. Medical aspects:

1. Pathology
2. Incidence
3. Clinical pictures
4. Diagnosis
5. Managements: Medical and Surgical

II.

A. Anatomy of coronary arteries:

1. Gross figures
2. Coronary angiogram (CAG)

B. History of CABG and the impacts of Percutaneous Coronary Intervention (PCI):

1. History of CABG
2. PCI: Trends and impacts to CABG

C. Indications and Conduits for CABG

D. CABG, from classic to state of the art:

1. Arrested CABG with saphenous vein graft
2. Arrested CABG with arterial grafts
3. Classic CABG and Off-Pump CAB (OPCAB)

E. Coronary related diseases:

1. Postinfarct ventricular septal rupture
2. Ischemic mitral regurgitation

3. Left ventricular aneurysm

第 27 單元

授課主題：Bone and Joint Infection / Hyperbaric Oxygen Therapy

教師：詹益聖

授課時間：50 分鐘

PowerPoint：105 張

學習目標：學習骨骼關節系統感染之機轉、診斷，臨床及預後，與高壓氧治療之機轉與適應症。

大綱：

A. Bone Infection : Osteomyelitis

1. Classification

2. Clinical Features

3. Radiology

4. Differential Diagnosis:

Trauma/ Nonspecific synovitis / Rheumatoid arthritis

Osteoarthritis / Gouty arthritis / Rheumatic fever

5. Treatment method

6. Surgical indication

7. Staging system and host B definition

8. Role of antibiotic beads in chronic osteomyelitis

9. Management of soft tissue and bone defects in chronic osteomyelitis

10. Management of joint infection

Antibiotics / Aspiration / Arthrotomy/ arthroscopy / Synovectomy

Excisional arthroplasty / Arthrodesis

11. Total knee replacement

B. Hyperbaric oxygen therapy (HBO)

1. Mechanism of HBO Action

2. Potential Mechanisms of Action of HBO in Musculoskeletal Disorders

3. Indications of Adjunctive HBO Therapy for Musculoskeletal Disorders

4. The role of HBO in the treatment of Refractory Osteomyelitis

第 28 單元

授課主題：Fluid and electrolyte management of the surgical patient

教師：黃燦龍

授課時間：50 分鐘

學習目標：了解 Fluid and electrolyte 的重點及六例實例的計算

大綱：

A. Fluid balance

B. Dehydration

C. Electrolytes imbalance

D. Case 1: Surgery after laparoscopic cholecystectomy

E. Case 2: Surgery after subtotal gastrectomy

- F. Case 3: Water Dehydration
- G. Case 4: Fluid and water dehydration
- H. Case 5: Surgery after bowel resection in a ESRD patient
- I. Case 6: Surgery after Whipple operation

第 29 單元

授課主題：Surgical nutrition and morbid obesity

教師：黃燦龍

授課時間：50 分鐘

學習目標：了解病態性肥胖症的定義及治療

大綱：

- A. Definition of morbid obesity
- B. Medical treatment and excise
- C. Program of weight reduction
- D. Liposuction
- E. Intestinal bypass and its side effects
- F. Gastric partition
- G. Gastric bypass

第 30 單元

授課主題：Tissue engineering and stem cell

教師：張毓翰

授課時間：50 分鐘

PowerPoint：45 張

學習目標：瞭解組織工程與幹細胞，目前的研究成果與未來臨床應用的可能。

大綱：

- A. Definition of Tissue Engineering
- B. Aims of Tissue Engineering
 - 1. What is Scaffold?
 - 2. What is growth factor?
 - 3. What is stem cells?
- C. Cloning
 - 1. History
 - 2. Regulation
 - 3. Current Research
- D. Mesenchymal stem cell
 - 1. Past, now and future
 - 2. Pre-clinical study
 - 3. Clinical application
- E. Future development of Tissue Engineering
- F. Discussion

第 31 單元

授課主題：Surgical diseases of newborns

教師：莊錦豪

授課時間：50 分鐘

PowerPoint：48 張

學習目標：學習新生兒常見先天性胸、腹腔疾病之診斷、治療與預後。

大綱：

- A. Two common neonatal disorders manifested with respiratory distress: esophageal atresia with distal tracheoesophageal fistula and diaphragmatic hernia.
- B. Newborn infants with gastrointestinal obstruction:
 - 1. Upper GI tract: Idiopathic hypertrophic pyloric stenosis, duodenal atresia, jejunoileal atresia and malrotation.
 - 2. Lower GI tract: Hirschsprung's disease and anorectal malformation.
- C. Newborn infants with abdominal wall defect: Gastroschisis and omphalocele.
- D. Special emphasis is on the clinical manifestations, associated anomalies, prompt diagnosis and appropriate surgical management that may change the survival rate of the patients from extremely low in the past to acceptable levels at present.

第 32 單元

授課主題：Congenital Cardiac Surgery

教師：朱肇基

授課時間：50 分鐘

PowerPoint：50 張

學習目標：先天性心臟病之分配

大綱：

- A. Cyanotic Heart Diseases
- B. Non-Cyanotic Heart Disease
- C. ASD (Atrial Septal Defect)
- D. VSD (Ventricular Septal Defect)
- E. T/F (Tetralogy of Fallot)
- F. ECD (Endocardial Cushion Defect)
- G. TAPVR (Total Anomalous Pulmonary Venous Return)
- H. TGA (Transposition of the Great Arteries)
- I. Truncus Arteriosus
- J. PDA (Patent Ductus Arteriosus)
- K. Coarctation of Aorta

第 33 單元

授課主題：Ethics in surgical practice

教師：陳敏夫

授課時間：50 分鐘

PowerPoint：42 張

學習目標：醫事倫理的回顧,現況與展望、新藥倫理、緩和醫療、動物實驗倫理、消費者保護法、器官移植倫理、醫療隱私權。

大綱：

A. 變遷中的醫療環境

B. 醫學倫理--過去與當今的情勢

1. 規範↔ 評估
2. 個人主義（以病人的利益為考慮的依據）↔ 社會責任，醫藥資源與經濟效益。
3. 父親與子女↔知的權利，自主權，醫療不當訴訟。
4. 個人良知，判斷↔學會，委員會，或非醫事專業人員。

C. 醫學倫理--將來的問題

1. 電腦科技的迅速發展，非人化，教學模擬機訓練住院醫師，電腦操作員。
2. 後天免疫缺乏症候群，醫師，病人的角色。
3. 基因治療，植入物誘發突變。
4. 老年人口及老年病人術逐年增加，醫療適應性，社會成本，活的遺囑。

D. 醫學倫理--醫病關係

1. 病患的健康將是我的首要顧念。
2. 愛滋病患者需要受到稱職而具同理心的對待。
3. 即使拒絕治療會導致殘障或死亡，有自主能力的病患還是有拒絕治療的權利。
4. 醫師沒有義務提供病患無效或無益的治療。
5. 病患是否有權使用醫師不建議的醫療服務？
6. 必需盡量讓病患在其能力範圍內參與決定過程。
7. 醫師對其病患的一切所知，都應絕對保密，即使在病患過世之後也不例外。
8. 對於任何需要透露病患隱私的法律要求，醫師們皆應嚴格加以檢視，並在遵守之前，確認遵守的理由是正當的。
9. 最重要的是，醫師絕不能放棄臨終的病患，即使他們不可能痊癒，仍應繼續提供富有同理心的照護。

E. 臨床試驗新藥及人體試驗→倫理常規

F. 面對死亡的反應：庫不勒--蘿絲 1969

G. 安寧緩和醫療之原則

H. 外科研究使用動物之倫理考量

1. 公平對待原則：人類與動物
2. 互蒙其利
3. 考慮其他取代方式
4. 接受實驗時，動物之意識狀態，及痛苦之處理
5. 實驗動物數目
6. 動物實驗之必需性

第 34 單元

授課主題：The liver

教師：陳敏夫

授課時間：50 分鐘

PowerPoint：47 張

學習目標：學習肝臟解剖、肝臟外科相關影像學、肝癌治療現況及處理原則、肝臟切除併發症、肝硬化肝切除之問題、肝膿瘍及門靜脈高壓之處理原則。

大綱：

A. Diagnostic Imaging in Liver Surgery

- B. Surgeon's Role in Hepato-biliary Disease
- C. Current Treatment Modalities for HCC
- D. Ablation of Liver Tumors
- E. Complications of Hepatic Resection
- F. Challenges in Management of HCC
- G. Risks and Complications of Liver Resection in Cirrhosis
- H. 肝癌肝切除今昔不同

第 35 單元

授課主題：Diverticular diseases and chronic ulcerative colitis

教師：陳進勛

授課時間：50 分鐘

學習目標：三種疾病之形成原因，臨床表癥、診斷、藥物治療及外科治療之角色
大綱：

A. Diverticular disease

1. Etiology
2. Symptom and sign
3. Diagnostic tool
4. Different diagnosis
5. Medical treatment
6. Surgical options
7. Operative options

B. Inflammatory Bowel disease

1. CUC (chronic ulcerative colitis)
 - (1). Etiology
 - (2). Symptom and sign
 - (3). How to make diagnosis
 - (4). Extra colic manifestation
 - (5). Surgical indication
 - (6). Surgical evolution in CUC
2. Crohn's disease
 - (1). Disease pattern
 - (2). Microscopic picture
 - (3). Gross pathology
 - (4). Anatomic location
 - (5). Risk of cancer
 - (6). Differences between Crohn's and CUC
 - (7). Treatment

第 36 單元

授課主題：Cervical spine degenerative

教師：何治軍

授課時間：50 分鐘

PowerPoint：90 張

學習目標：學習正常頸椎的解剖及生理、頸椎退化性病變的原因和致病機轉，產生的神經功能變化、診斷、治療和預後。

大綱：

- A. Normal anatomy and physiology of cervical spine and cord.
- B. Etiology and epidemiology of degenerative cervical spine.
- C. Pathophysiology of degeneration.
- D. Diagnosis.
- E. Treatment.
- F. Prognosis.
- G. Prevention and education.

第 37 單元

授課主題：外科醫師的法律責任

教師：林萍章

授課時間：50 分鐘

PowerPoint：45 張

學習目標：本節主要討論台灣外科醫師所面對的醫療過失的刑事、民事、與行政責任

大綱：

- A. 案例
- B. 基礎法規
- C. 外科醫師的注意義務
- D. 臺灣地區醫療過失的法律責任
- E. 臺灣地區醫療過失案例的實證分析
- F. 案例分析

第 38 單元

授課主題：Spinal Deformity

教師：陳文哲

授課時間：50 分鐘

PowerPoint：50 張

學習目標：了解脊椎側彎的原因，學習脊椎側彎的診斷，背架治療，手術治療及其預後。

大綱：

- A. Normal coronal and sagittal curvature and balance
- B. Etiology of scoliosis
- C. Diagnosis of scoliosis: physical and radiographic examination
- D. Treatment
 - 1. Observation
 - 2. Bracing
 - 3. Surgical treatment
- E. Goals of surgical treatment
- F. Complications of surgical treatment
- G. Prognosis of bracing and surgical treatment

第 39 單元

授課主題：Heritable colorectal cancer

教師：張簡俊榮

授課時間：50 分鐘

PowerPoint：44 張

學習目標：由遺傳性大腸直腸癌的認識，知道對它的預防、治療以及親屬的篩檢。

大綱：

- A. 大腸直腸癌的發生率、機轉及重要性。
- B. 各種不同遺傳性大腸直腸癌的介紹：
 - 1. FAP
 - 2. HNPCC
 - 3. Familial colorectal cancer
 - 4. Rare colon cancer syndromes：PJ-syndrome, juvenial polyposis, Turcot's syndrome.
- C. 大腸直腸癌的預防。

第 40 單元

授課主題：Endoscopic surgery

教師：葉大森

授課時間：50 分鐘

PowerPoint：

學習目標：使學生了解內視鏡/腹腔鏡手術之歷史沿革、優劣點、潛在之併發症及風險及未來發展方向。

大綱：

- A. 過去、現在、未來內視鏡/腹腔鏡手術之概況。
- B. 內視鏡/腹腔鏡手術之空間、設備、軟硬體。
- C. 上述手術適應症之擴展。
- D. 實例演出。

第 41 單元

授課主題：Pediatric Neurosurgery

教師：雷大雅

授課時間：50 分鐘

PowerPoint：61 張

學習目標：學習各種小兒神經外科病的發生原因、病理變化、診斷方法、X 光片之判讀

大綱：

- A. Myelomenigocele
- B. Meningocele
- C. Encephalocele
- D. Chiari I, II
- E. Tethered Cord syndrome
- F. Hydrocephalus

G. Moyamoya Disease

第 42 單元

授課主題：Neurosurgical Oncology

教師：張承能

授課時間：50 分鐘

投影片：45 張

學習目標：腦瘤的分類、成因、臨床症狀、以及各種腦瘤的臨床特色，以及各種治療方法。

大綱：

總論

A. Etiology

B. Classification :

1. Pathological
2. anatomical

C. Incidence

D. Clinical symptoms

1. Focal sign
2. Generalized IICP sign, headache, blurred vision, nausea/vomiting
3. Hormone: eg. Pituitary
4. Non-specific
5. Pathophysiology of IICP

E. Diagnosis

1. History taking
2. Images : Skull, C-T, MRI, Angio
3. Functional Image : PET, SPECT, MRS, fMRI
4. Hormone study

F. Treatment

1. Medical : Steroid, hypertonic solu, anti-epileptic drug, hormone
2. Surgical
3. Radiosurgery
4. Radiotherapy
5. Chemotherapy
6. Gene therapy?
7. Immunotherapy!
8. Stem cell therapy? & future!

分論：各種腦瘤的 Clinical s/s, image and treatment

A. Glioma

B. Meningioma

C. Pituitary tumor

D. Acoustic neuroma

E. Others

第 43 單元

授課主題：Thoracolumbar degenerative disease

教師：陳志豐

授課時間：50 分鐘

PowerPoint：48 張

學習目標：學習胸腰椎退化性疾病的發生原因、病理變化、診斷方法、治療目的及預後。

大綱：

- A. 背部解剖構造:
- B. 椎體基本解剖構造:
- C. 退化原因
- D. 椎體構造上的變化
- E. 流行病學
- F. 臨床上的表現
- G. 診斷的方法
- H. 病例分析
- I. 手術目的
- J. 術後照顧方法
- K. 預後

第 44 單元

授課主題：Sports injury

教師：許文蔚

授課時間：50 分鐘

PowerPoint：100 張

學習目標：讓學生瞭解運動外傷之發生或然率原因分類、臨床診斷、治療及健康原則

大綱：

- A. Incidence and cause, mechanism
- B. Classification, diagnosis
- C. Management and prevention

第 45 單元

授課主題：Neurosurgical emergency and infectious diseases neurosurgery

教師：楊仁宗

授課時間：50 分鐘

PowerPoint：49 張

學習目標：學習腦部急症的診斷及處置

大綱：

- A. Normal brain
- B. Increased intracranial pressure (reversible)
 - 1. signs and symptoms
 - 2. brain CT
 - 3. ICU monitor
- C. Brain herniation and brain death (irreversible)
- D. Head injury: recent past, present, and future

E. Guideline of hemorrhagic stroke

F. Status epilepticus

第 46 單元

授課主題：The Breast

教師：陳訓徹

授課時間：50 分鐘

PowerPoint：50 張

學習目標：乳房疾病大綱，乳癌診治原則，國內現況分析
大綱：

- A. 乳癌發生機轉
- B. 高危險群篩檢等略
- C. 國內外乳癌異同
- D. 乳癌治療大綱，NCCN 及本院治療準則
- E. 乳癌外科治療(保留手術、前哨淋巴、腫瘤整形手術)
- F. 乳癌輔助療法(化學治療、荷爾蒙及標靶治療)
- G. 乳癌的預防策略
- H. 乳癌特殊狀況：原位癌處理、局部嚴重型乳癌

第 47 單元

授課主題：Neurosurgical vascular disorder

教師：林子滄

授課時間：50 分鐘

PowerPoint：50 張

學習目標：了解常見及重要的神經系統血管病變，及其臨床表現和外科治療。
大綱：

- A. Concise cerebrovascular anatomy & physiology
- B. Spontaneous subarachnoid hemorrhage:
 - 1. Clinical presentation, classification, and diagnosis
 - 2. Common complications and their treatments
- C. Intracranial arteriovenous malformation: Clinical presentation and treatment
- D. Dural arteriovenous fistula: Clinical presentation, classification, and treatment
- E. Carotid endarterectomy for stenosis: Diagnosis and treatment
- F. Supratentorial large infarction: Clinical presentation and surgical indication
- G. Spontaneous intracerebral hematoma: Common location, hematoma measurement, and treatment strategy

第 48 單元

授課主題：Surgery for the common diseases of the stomach and duodenum

教師：王嘉修

授課時間：50 分鐘

PowerPoint：

學習目標：認識胃和十二指腸有外科手術適應症的重要疾病。幽門螺旋桿菌致病的機轉。術

前的評估，手術治療的策略，介紹各種手術的病態生理基礎，和手術方法的選擇和術後照顧。
大綱：上半堂講授良性疾病的手術主要以消化性潰瘍為主，下半堂課講授惡性疾病以胃癌為主。

A. 消化性潰瘍手術

1. Surgical indication
2. Preoperative assessment
3. Choice of operative procedures for peptic ulcer perforation
4. Simple procedures or local treatment in peptic ulcer surgery
5. Definite procedures of peptic ulcer surgery
6. Postoperative care

B. 胃癌

1. Classifications of gastric neoplasm
2. Workup studies for gastric cancer
3. Surgical treatment of gastric cancer
4. Detail of surgical treatment
5. Treatment of early gastric cancer

第 49 單元

授課主題：Surgery for Arthritis

教師：王俊聞

授課時間：50 分鐘

PowerPoint：50 張

學習目標：學習膝關節炎致病原因、機轉、臨床檢查、放射線診斷、實驗室診斷及骨科治療方法。

大綱：

- A. Clinical diagnosis of knee arthritis
- B. Radiological and laboratory diagnosis of knee arthritis
- C. Mechanism and biomechanics of knee arthritis
- D. Osteoarthritis, rheumatoid arthritis, crystal-induced arthritis, pyogenic arthritis and posttraumatic arthritis
- E. Surgery of knee arthritis including corrective osteotomy, joint debridement, arthrodesis and arthroplasty.

第 50 單元

授課主題：Esophagus, pleura diseases

教師：吳怡成

授課時間：50 分鐘

PowerPoint：50 張

學習目標：學習食道癌、氣胸及膿胸的診斷，臨床意涵、治療及預後。

大綱：

- A. Definition of pneumothorax & empyema thoracis
- B. Classification and causes of pneumothorax
 1. primary spontaneous pneumothorax

- 2. secondary spontaneous pneumothorax
- C. Surgical indication of spontaneous pneumothorax
 - 1. recurrence
 - 2. prolong air leak
 - 3. association with complication
 - 4. large bullae
 - 5. lung collapse
- D. Pathophysiology of empyema thoracis
 - 1. exudate phase
 - 2. fibrinopurulent phase
 - 3. chronic organized phase
- E. Symptoms and signs of empyema thoracis
- F. Surgical indication of sponta empyema thoracis
- G. Epidemiology of esophageal cancer
- H. Treatment choice of esophageal cancer
- I. Surgical resection of esophageal cancer & reconstruction of esophagus
- J. Prognosis factors in esophageal cancer

第 51 單元

授課主題：Principles in the management of fractures and dislocations

教師：吳基銓

授課時間：50 分鐘

PowerPoint：34 張

學習目標：骨折與脫臼發生之原因及機轉，診斷，分類，治療原則及方法。

大綱：

- A. Mechanism of fractures or dislocations:
- B. Diagnosis of fractures or dislocations:
 - 1. symptoms and signs
 - 2. radiograph
 - 3. bone scan or CT
- C. Initial management of fractures or dislocations:
- D. Complications associated with fractures or dislocations:
 - 1. neurovascular injury
 - 2. fat embolism
 - 3. compartment syndrome
- E. Classification of fractures:
- F. Principles of treatment of fractures or dislocations:
 - 1. factors favoring fracture healing
 - 2. definite management of fractures or dislocations
 - 3. methods for enforcing fracture healing
- G. Complications related to fracture treatment:

第 52 單元

授課主題: Pediatric Urology

教師: 陳孝文

授課時間: 50 分鐘

PowerPoint: 45 張

學習目標: 了解小兒泌尿異常之特徵, 與遺傳學之關係及臨床診斷之依據。

大綱:

- A. Urinary tract infection in children
- B. Congenital abnormalities of urinary tract
 - 1. Vesicoureteral reflux
 - 2. Duplex collecting system
 - 3. Urethral valve syndrome
 - 4. Ureteropelvic obstruction
 - 5. Voiding dysfunction
- C. Congenital abnormalities of genital tract
 - 1. Undescended testis or nonpalpable tests
 - 2. Inguinal hernia and acute scrotum
 - 3. Hypospadias
 - 4. Intersex

第 53 單元

授課主題: Congenital deformities in orthopedic practice

教師: 李宗料

授課時間: 50 分鐘

PowerPoint: 65 張

學習目標: 骨骼先天性疾病臨床評估的重點、要項及主要常見的疾病。

大綱:

- A. 骨骼肌肉系統在胚胎發育的回顧
- B. 先天性骨骼肌肉功能的問題:
 - 1. 何謂先天性的骨骼肌肉疾病
 - 2. 臨床評估的重點: 外觀性問題、功能性問題、發育性問題、退化性問題
- C. 先天性骨骼肌肉疾病上肢功能的臨床評估要點
- D. 先天性骨骼肌肉疾病下肢功能的臨床評估要點
- E. 先天性脊椎疾病功能的評估要點及例項
- F. 上肢先天性骨骼肌肉疾病臨床分項及例項
- G. 下肢先天性骨骼肌肉疾病臨床分項及例項

第 54 單元

授課主題: Bone metabolism and metabolic bone disease

教師: 陳永仁

授課時間: 50 分鐘

PowerPoint: 60 張

學習目標: metabolic bone disease: Etiology, Pathomechanism, Treatment, Prognosis。

大綱：

- A. Normal physiology in bone metabolism
- B. Hormonal regulation of cell differentiation
- C. The role of vitamin D in calcium regulation
- D. Sex steroid / estrogen in bone density
- E. Osteoporosis: etiology, clinical symptom, treatment
- F. Ricket, and vitamin deficiency
- G. Renal osteodystrophy, chronic renal failure, with multiple disorders of bone metabolism
- H. Paget's disease: familial pattern of aggregation, increasing bone resorption, abnormal osteoclast

第 55 單元

授課主題：Recent advance in orthopedic surgery

教師：王清貞

授課時間：50 分鐘

PowerPoint：40 張

學習目標：學習最新骨科知識，包括人工關節置換，微創運動外傷手術，脊椎內固定新知，基因治療和體外震波等，以全人工關節置換的最新演變為主題。

大綱：

- A. Overview 最新骨科新知的發展。
- B. 全人工膝關節置換的演變。
 - 手術技術的細節與術後結果的關聯性。
 - 強調 alignment, stability 及 range of motion 等正確手術技巧對術後預期後果有直接關係。
- C. 全人工膝關節設計及材質的演變，從 fixed bearing 到 mobile bearing, Uni-TKA 到 TKA, high flex TKA 等。傳統的 polyethylene 到 high cross-linked insert 等等。抗生素及血栓預防措施及使用。
- D. 失敗原因：
 1. 感染—急性與慢性，治療方式不同，大多的慢性感染都用 two-stage reimplantation, 早期診斷早期治療為妙。
 2. 鬆動 (aseptic loosening), 主因 polyethylene wear 而產生 debris 而造成 osteolysis 及 prosthesis loosening 等, Revision TKA 既複雜又困難。
 3. 其他原因包括 periprosthetic fracture, arthrofibrosis 等, 要個案處理。
- E. Minimal invasive endoscopic ligament reconstruction provides faster recovery and less postoperative complications.

第 56 單元

授課主題：Neoplasms of musculoskeletal system

教師：施信農

授課時間：50 分鐘

學習目標及大綱：

- A. 認識各類骨腫瘤及軟組織肉瘤

- B. 性骨腫瘤之分期
- C. 治療骨腫瘤的目的
- D. 各類骨腫瘤的重建手術法
- E. 惡性骨腫瘤之治療療程
- F. 軟組織肉瘤之治療原則

第 57 單元

授課主題：Cosmetic surgery

教師：張承仁

授課時間：50 分鐘

PowerPoint：45 張

學習目標：解剖美學、整形美容手術。

大綱：

A. Anatomy

B. Face

1. Hair transplants
2. Brow lift for ptosis of eyebrows or excessive forehead wrinkles
3. Blepharoplasty for excessive eyelid skin and/or periorbital fat
4. Rhinoplasty for nasal deformity (broad tip, dorsal hump, etc.)
5. Facelift for facial and neck sagging
6. Otoplasty for prominent ears
7. Lasers for facial wrinkles

C. Breast

1. augmentation
2. Mastopexy to reposition ptotic breasts

D. Trunk and Extremities

1. Liposuction
2. Abdominoplasty

E. Discussion

第 58 單元

授課主題：Response to Injury

教師：徐榆堡

授課時間：50 分鐘

PowerPoint：45 張

學習目標：學習外傷初始評估及處置，胸腹部挫傷及穿刺傷處置原則，腹部挫傷非手術治療原則，肢端外傷處置原則。

大綱：

A. ATLS guideline

1. Primary survey
2. Secondary survey

B. Chest Injury

1. Blunt trauma

- 2. Penetrating trauma
- C. Abdominal Injury
 - 1. Blunt trauma
 - 2. Non-operative management and pitfalls
 - 3. Penetrating trauma
- D. Musculo-skeletal Injury
 - 1. General principle of management
 - 2. Compartment syndrome

第 59 單元

授課主題：Maxillofacial surgery, comgenital or acquired

教師：陳國鼎

授課時間：50 分鐘

學習目標&大綱：

- A. What are "Craniomaxillofacial surgery" dealing with?
 - 1. Congenital craniofacial anomalies
 - Cleft lip/palate, hemifacial microsomia, craniosynostosis, craniofacial dysostosis, rare facial clefts, benign tumors(hemangioma, lymphangioma, neurofibroma...).
 - 2. Acquired craniofacial anomalies
 - Facial trauma, dentofacial anomalies, Contour problems
- B. What is the etiology of congenital craniofacial anomalies?
 - Genetic factors, environmental factors
- C. The related problems of craniofacial anomalies
 - 1. Cleft lip/palate
 - 2. Craniosynostosis
- D. Team approach to craniofacial anomalies
- E. Timing of treatment
 - 1. Principles of soft tissue management
 - 2. Principles of bony surgery
- F. Timing of bony surgery in different parts of the craniofacial skeleton

第 60 單元

授課主題：Introduction of Plastic Surgery

教師：莊垂慶

授課時間：50 分鐘

PowerPoint：50 張

學習目標：

- A. the brief history of Plastic Surgery;
 - B. wound approach and management from the plastic surgeon's point of view;
 - C. categories of plastic surgery
- 大綱：
- A. history of Plastic Surgery, what plastic surgeons are; meanings of plastic

surgery

- B. skin surgery, techniques of wound incision and closure, knowing different skin lines, rest-tension skin line, scars concern, Z-plasty, V-Y plasty, W-plasty
- C. skin graft for wound coverage
- D. concept of skin flap: including axial flap vs. randomized flap, local flap vs. distant flap, pedicled flap vs. free flap; advanced flap, rotation flap, transposition flap, transposed flap, jumping flap et cetera concept of muscle flap, musculocutaneous flap, osseous flap, osseocutaneous flap, osseomyocutaneous flap, functioning free muscle transplantation, and other composite flap
- E. replantation, transplantation, vascular surgery, lymphatic surgery, nerve transfer, nerve graft et cetera
- F. categories: craniofacial, micro-, burn, general plastic surgery, traumatic plastic surgery, cosmetic surgery

第 61 單元

授課主題：Principles of Microsurgery

教師：鄭明輝

授課時間：50 分鐘

PowerPoint：30 張

學習目標：Knowing the history, definition, and operative principles of microsurgery and its application.

大綱：

A. Introduction

Microsurgery uses the operating room microscope or high-powered loupe magnification to aid in the techniques of microvascular surgery to anastomose small vessels and nerves.

B. History of the procedures

1. The term of microvascular surgery: described by vascular surgeon, Jules Jacobson, of the University of Vermont in 1960
2. Rabbit ear replantation: Buncke in 1966
3. Great toe to hand transfer: Buncke in 1966

C. Indication:

Reconstruction ladder: depending on the type of tissue required and the size and location of the defect.

D. Free tissue transfer

1. First done in the early 1970s and has become a popular "one-stage" (single operation) procedure for many surgical reconstructive applications.
2. Common flaps:
 - Myocutaneous flap
 - Axial flap
 - Perforator flap

E. Replantation: Restoring blood flow through arteries and veins

F. Transplantation: Allowing reconstruction of small arteries in clinical organ transplantation

G. Preoperative details

1. History: past medical history, past surgical history, previous history with anesthesia, and current medications.
2. Social history: substance or tobacco use
3. Physical examination: assessment of general condition and to identifying the current defect.

H. Intraoperative details

1. Outline the plan
2. Prepare the proper equipment
3. Position the patient properly
4. Microsurgical anastomosis

I. Postoperative details

1. Pain control
2. Adequate fluid hydration and body temperature maintain
3. Flap monitoring

J. Complications:

1. Circulation compromised due to vein or artery thrombosis
2. Hematoma with pedicle compromise and need for transfusion
3. Infection
4. Wound dehiscence
5. Donor side wound complication
6. Systemic complications or associated with anesthesia
7. Deep vein thrombosis and pulmonary emboli

K. Conclusion:

Reconstructive microsurgery is now in a new stage

Basic principles of microsurgery

1. Select patients carefully.
2. Develop a careful preoperative plan.
3. Obtain full patient consent.
4. Pay attention to intraoperative details.
5. Perform meticulous microsurgical technique.

第 62 單元

授課主題：Hand surgery

教師：林有德

授課時間：50 分鐘

PowerPoint：61 張

學習目標：了解手外科之基本概念

大綱：

A. Congenital Hand

Radial deficiency

Syndactyly

Polydactyly

B. Traumatic Hand

1. Fractures

2. Dislocation and ligament injury

3. Tendon rupture

C. Open injuries

第 63 單元

授課主題：Burns

教師：楊瑞永

授課時間：25 分鐘

Power Point：46 張

學習目標：學習燒燙傷深度及面積的判斷，水份流失的機轉，輸液治療的方法，特殊傷害，如吸入性灼傷、電傷、化學性灼傷、幼兒及老人燙傷的處置。

大綱：

A. Burn Depth

B. Total Burn Surface Area (TBSA)

C. Inhalation injury

1. CO intoxication

2. Bronchoscope findings in parenchyma injury

D. Fluid Resuscitation

1. Mechanism

2. Fluid therapy

E. Burn wound treatment

1. Topic agents

2. Wound closure

F. Electrical injury

1. Mechanism

2. Complications

3. Managements

G. Chemical burn

1. Initial treatment

2. Antidote

H. Burn Complication

Burn wound sepsis

第 64 單元

授課主題：Wound Healing

教師：楊瑞永

授課時間：25 分鐘

Power Point：43 張

學習目標：瞭解傷口癒合機轉，病態癒合的原因，疤痕形成的原因及處置，慢性傷口的處理，

傷口癒合的將來。

大綱：

- A. Definition of wound healing
- B. The role of various cells in wound healing
 - 1. Platelet
 - 2. WBC
 - 3. Lymphocyte
 - 4. Macrophage
 - 5. Mast cell
 - 6. Fibroblast
- C. Collagen and other matrix
- D. Hypertrophic scar and keloid
- E. Chronic wound
- F. Wound dressing
- G. Fetal wound healing
- H. Aftercare after wound healing

第 65 單元

授課主題：Renal Transplantation

教師：朱聖賢

授課時間：50 分鐘

PowerPoint：34 張

學習目標：學習腎移植與血液透析治療末期腎衰竭的優、缺點。腎臟捐贈與腎移植的適應條件，及臨床的問題。

大綱：

- A. Brief history of organ transplantation
- B. Advantage and disadvantage of renal transplantation and hemodialysis.
- C. Indication and contraindication to cadaveric donation
- D. Indication and contraindication to cadaveric and living relative renal transplantation.
- E. The surgical procedures of cadaveric donor and renal transplantation
- F. The complication of renal transplantation

第 66 單元

授課主題：New trends and technologies in reconstructive surgery

教師：魏福全

授課時間：50 分鐘

學習目標：了解目前在國際整形外科界的新技術、新趨式

大綱：

認識自體移植與異體移植

世界上自體與異體組織移植之現況

自體與異體組織移植之發展

異體組織移植之問題及瓶頸

異體組織移植之未來

第 67 單元

授課主題：Geriatric Urology

教師：崔克宏

授課時間：50 分鐘

PowerPoint：30 張

學習目標：高齡泌尿疾病，良性攝護腺肥大症之發生率，診斷及治療。

大綱：

- A. Definition of geriatric urology
- B. Aims of Geriatric incontinence
 - 1. How to definition
 - 2. How to diagnosis
 - 3. Treatment guideline
- C. Aims of Benign Prostate Hyperplasia
 - 1. How to definition
 - 2. How to diagnosis
 - 3. Flow chart of diagnosis
 - 4. Treatment guideline
 - 5. Future study for BPH research
- D. Developing flow chart of geriatric disease
- E. Developing clinical guideline for geriatric urology
- F. Research for BPH and incontinence
- G. Personalized Medicine

第 68 單元

授課主題：Craniofacial surgery, philosophy and art

教師：陳昱瑞

授課時間：50 分鐘

PowerPoint：80 張

學習目標：the principles, applications, effectiveness and psychosocial influence of craniofacial surgery and craniofacial anomalies

大綱：

- A. Definition and principles of craniofacial surgery and craniofacial anomalies
- B. Applications or scope of craniofacial surgery
 - 1. Congenital anomalies
 - 2. Traumatic deformities
 - 3. Benign tumors: craniofacial fibrous dysplasia, neurofibromatosis
 - 4. Developmental maxillofacial anomalies
- C. Facial evaluation and facial aesthetics
 - 1. Facial midline
 - 2. Facial symmetry
 - 3. Facial proportion

4. Facial function
- D. Congenital craniofacial anomalies
1. Craniofacial synostosis, non-syndromatic
 2. Syndromes : Crouzon, Apert
 3. Rare Facial Clefts (other than common cleft lip/palate and hemifacial microsomia)
- E. Developmental maxillofacial (dentofacial) anomalies
1. Mandible prognathism (Class III malocclusion)
 2. Mandible retrognathism (Class II malocclusion)
 3. Maxillary protrusion (excess), Bimaxillary protrusion
 4. Maxillary retrusion (deficiency)
 5. Facial asymmetry
- F. Psychosocial effect of craniofacial anomalies

第 69 單元

授課主題：Disorders of prostate and Andrology

教師：謝明里

授課時間：50 分鐘

PowerPoint：50 張

學習目標：了解前列腺常見的疾病，包括 BPH, prostatic Ca 及前列腺炎的診斷及治療，另外能對男性生殖系統疾病有進一步了解。

大綱：

A. What is Andrology

B. Benign prostatic disorders:

1. Anatomy and function of prostate gland
2. The etiology and management of prostatitis
3. BPH : prevalence, diagnosis and treatment options

C. Malignant prostatic diseases:

1. Prostatic cancer diagnosis and staging
2. Prostatic Ca treatment guideline
3. prognostic factors and evaluation

D. Male infertility:

1. Definition
2. Etiology and Classification
3. Clinical evaluation and Treatment modality

第 70 單元

授課主題：Urological Oncology

教師：莊正鏗

授課時間：50 分鐘

PowerPoint：60 張

學習目標：認識腫瘤之生成、致病因子、預後因素以及泌尿腫瘤(包括攝護腺癌、膀胱癌、腎細胞癌、上泌尿道泌尿上皮細胞癌)之診斷、分期、治療。

大綱：

- A. The development of the cancer
- B. Classification, staging of renal cell carcinoma
- C. Current treatment of renal tumor...radical nephrectomy, nephron-sparing surgery, cryoablation and targeted therapy
- D. Diagnosis of prostate cancer
- E. Treatment of prostate cancer.. radical prostatectomy, high dose rate brachytherapy, IMRT, hormone therapy and management of castration-resistant prostate cancer
- F. Urothelial carcinoma: diagnosis and management of bladder tumor
- G. Urine-based molecular markers

第 71 單元

授課主題：Urolithiasis

教師：陳文祥

時間：50 分

PowerPoint：25 張

學習目標：了解尿路結石成因及治療

大綱：

- A. Pathophysiology of urolithiasis
- B. Stone analysis
- C. Evaluation of stone former
- D. Clinical symptoms of urolithiasis
- E. Management of Urolithiasis
- F. Stone prevention

第 72 單元

授課主題：Female urology and sexual dysfunction

教師：陳志碩

時間：50 分

PowerPoint：

學習目標：學習膀胱過動症、婦女尿失禁與骨盆脫垂的機轉、臨床症狀與治療。
學習男性性功能障礙與早洩的機轉、診斷、與治療方法。

大綱：

- A. Pelvic floor anatomy
- B. Classification of incontinence and pelvic organ prolapse
- C. Clinical presentation and differentiation of urine incontinence
- D. Conservative and surgical treatment of urine incontinence
- E. Mechanism of penile erection and premature ejaculation
- F. Diagnosis of erectile dysfunction
- G. Medical and surgical treatment for erectile dysfunction

課程名稱：皮膚科學(Dermatology)

學年：97

學期：2

年級：6

課程大綱

教科書：1. Color Atlas & Synopsis of Clinical Dermatology (2005): Common & Serious Diseases, Fitzpatrick, McGraw-Hill.

2. Rouburgh's Common Skin Diseases (1996), r. Marks, Champion & Hall Medical.

參考書：

1. Clinical Dermatology (2002), Hunter/Savin/Dabl, Blackwell Science.

2. Dermatology in Practice, 1990, Anthony du vivier, Mosby-Wolf.

整體教學目標：

1. 認識基礎皮膚解剖學、皮膚生理學、皮膚病理學

2. 熟悉常見皮膚疾病

3. 了解不同內科疾病在皮膚上的表現

4. 認識各種皮膚疾病的治療方法

教學方法：

1. 以系統性的幻燈片及講義教學建立學生對皮膚科學的概念

2. 輔佐以實際教案讓學生加深印象及學習臨床鑑別診斷的能力

3. 病理切片配合臨床表現，讓學習更加具體化

4. 經由門診教學，培養學生思考、推理並做鑑別診斷能力

5. 床邊教學的參與，搭配學生以書寫病例報告的方式，來深入瞭解病程變化及治療過程，及醫病互動關係之培養

中文課程簡介：

課程內容除涵蓋有一般皮膚生理學、成人皮膚疾病、兒童皮膚病外，也包括了皮膚外科、皮膚美容、職業性皮膚病、指甲毛髮疾病、白斑及色素異常、女性外陰皮膚疾病等特殊領域。醫學生以分組方式參與與一般門診、臨床治療來學習常見皮膚疾病，至於每日住院病人的床邊教學，則著重在慢性皮膚病及嚴重疾病，如乾癬、水皰病、藥物疹等，而學生在見習期間也將由指導老師指定參與一至兩位病患照顧與病例寫作，實地體驗皮膚科全貌。另外，課堂教學的部份，則是以系統性的幻燈片及講義教學建立學生對皮膚科學的整體概念。至於每週舉辦皮膚臨床病理研討會，則是將課堂教學與臨床病例做一完整的介紹

英文課程簡介：

The course of dermatology, including dermatological surgery, cosmetic dermatology, occupational dermatology, nail and hair disorder, vitiligo/pigmentation disorder, and vulvar skin diseases in addition to general skin physiology, and adult and pediatric dermatology. Each medical student is given the learning opportunity in the outpatient clinic and the treatment room for a better understanding of common dermatologic diseases. During bed side teaching in in-patient ward rounds, student acquires knowledge of chronic and critical dermatological illnesses, such as psoriasis, bullous diseases, and drug eruptions. Under the supervision of senior residents, medical clerks are responsible for the care and chart writing of 1 to 2 patients and thus gain a more

comprehensive knowledge in the care of dermatology patients. Clinical pathology conferences, which bring classroom lecture and clinical dermatopathology together, are held twice weekly to provide a complete clinical course of dermatological diseases. Through the various teaching courses provided by the attending physicians, most of whom are further trained in dermatology subspecialties, the curriculum tailors to give medical students an optimal learning environment in the field of dermatology.

成績考核：

1. 課堂教學：由學期考試來評核學生學習成果
2. 床邊教學 (bed side teaching)：繳交案例報告
3. Chart round：針對每位學生每週所分配照顧到的唯一病例進行小組討論
4. 導師時間：每週由導師評核估該週之學習成效

教學進度

項次	上課日期/ 星期	開始/結 束 節次	時 數	授課教 師	教學進度
1	2009-02-02 (一)	1 - 2	2	官裕宗	1. <u>Introduction, eruption basic examination & diagnosis</u> 2. <u>Disease of the skin appendages</u>
2	2009-02-02 (一)	3 - 3	1	張雅菁	<u>Eczema, Pruritus, Erythema & Urticaria</u>
3	2009-02-02 (一)	4 - 4	1	李士虹	1. <u>Psoriasis & other papulosquamous diseases</u> 2. <u>Syphilis & fungal diseases</u>
4	2009-02-02 (一)	5 - 5	1	陳建勳	<u>Skin tumors, Benign and malignant</u>
5	2009-02-02 (一)	6 - 7	1	洪宏翔	1. <u>Connective tissue disease</u> 2. <u>Bullous diseases</u>
6	2009-02-03 (二)	1 - 1	1	許仲瑤	<u>Metabolic skin disease & Genodermatoses</u>
7	2009-02-03 (二)	2 - 2	1	翁雯柔	<u>Pigmented disorders & Disease of mucous membranes</u>
8	2009-02-03 (二)	3 - 3	1	林靜怡	<u>Endocrine disease, Hypertrophies, Atrophies and Dermal Elastoses</u>
9	2009-02-03 (二)	4 - 4	1	楊志勳	<u>Cutaneous vascular disease</u>
10	2009-02-03 (二)	5 - 5	1	施一新	<u>Pediatric dermatosis</u>
11	2009-02-03 (二)	6 - 7	2	陳明君	1. <u>Bacterial infections & Mycobacterial disease</u> 2. <u>Dermatoses due to physical factor</u>

12	2009-02-03 (二)	8 - 8	1	何宜承	1. <u>Viral dermatoses</u> 2. <u>Cutaneous disease caused by arthropods</u>
13	2009-02-04 (三)	1 - 2	2	莊雅慧	1. <u>Dermatological therapeutics</u> 2. <u>Hair disorders</u>
14	2009-02-04 (三)	3 - 3	1	胡倩婷	<u>Drug eruption</u>

課程名稱：皮膚科學(Dermatology)

第 1 單元

授課主題：Introduction and examination of dermatology

教師：官裕宗

授課時間：50 分鐘

學習目標：認識皮膚科、皮膚病的診斷，與系統性疾病的關係。

大綱：

A. Introduction of Dermatology

B. Examination

1. Primary lesion, secondary lesion

2. Arrangement

3. Distribution

第 2 單元

授課主題：Disease of pila-sebaceous unit & Sweat gland; Disease of nail

教師：官裕宗

授課時間：50 分鐘

學習目標：認識毛囊皮脂腺、汗腺、指甲疾病。

大綱：

A. 介紹毛囊、皮脂腺、汗腺構造及常見疾病。

B. 介紹指甲構造及常見疾病。

第 3 單元

授課主題：Eczema, pruritus, urticaria and angioedema, figurate erythema

教師：張雅菁

授課時間：50 分鐘

Eczema

學習目標：學習濕疹的定義、臨床表現、診斷及治療；貼膚試驗用於診斷過敏性接觸性濕疹、常見的接觸性過敏原。

大綱：

A. Definition of eczema

B. Classification of eczema

Morphology

Acute eczema , subacute eczema , chronic eczema

Location

Etiology

Endogenous vs. exogenous

Irritant contact dermatitis vs. allergic contact dermatitis

Characteristic eczema

Keratoderma tyloides palmaris progressive (KTPP)

Keratolysis exfoliativa

Pompholyx (dyshidrosis)

Asteatotic eczema (eczema craquele)

Nummular eczema

Juvenile plantar dermatosis

Lichen simplex chronicus

Prurigo nodularis

Stasis dermatitis

C. Patch test for diagnosis of allergic contact dermatitis

Pruritus

學習目標：瞭解全身性搔癢可能的相關疾病、如何評估及治療全身性搔癢。

大綱：

A. Classification and types of itch

B. Etiology of generalized pruritus

C. Investigation of generalized pruritus

D. Treatment of generalized pruritus

Urticaria and Angioedema

學習目標：瞭解蕁麻疹/血管性水腫之臨床表現、致病機轉、可能的原因及治療。

大綱：

A. Clinical manifestations of urticaria and angioedema

B. Pathogenesis of urticaria and angioedema

C. Causes of urticaria and angioedema

D. Investigation and treatment of urticaria and angioedema

Figurate erythema

學習目標：瞭解什麼是圖案狀紅斑、特殊的圖案狀紅斑之臨床表現及相關疾病。

大綱：

A. Definition of figurate erythema

B. Specific types of figurate erythema

Erythema annulare centrifugum

Erythema gyratum repens

Erythema migrans

Annular lupus erythematosus

Erythema marginatum

Necrolytic migratory erythema

第 4 單元

授課主題：A. Psoriasis & other papulosquamous dermatosis

B. Syphilis & fungal diseases

教師：李士虹

授課時間：50 分鐘

PowerPoint：74 張

學習目標：學習乾癬、梅毒、皮膚黴菌感染的診斷、治療及預後。

大綱：

A.

1. 乾癬的臨床分類
2. 乾癬的致病機轉
3. 乾癬的誘發因子
4. 乾癬的治療
5. 其他 papulosquamous dermatosis

B.

1. 梅毒的歷史
2. 梅毒的致病原和臨床分期
3. 梅毒的臨床表現和診斷
4. 梅毒的治療
5. 常見皮膚黴菌感染的診斷和治療

第 5 單元

授課主題：skin tumor

教師：陳建勳

授課時間：50 分鐘

PowerPoint：70 張

學習目標：學習常見惡性及良性皮膚腫瘤之臨床表現及診斷,了解每一種皮膚腫瘤的臨床典型表現,好發部位以及惡性腫瘤的行爲(轉移性或復發性的發生機率高低)及適當的臨床處置。

大綱：

A. Malignant skin tumor

1. Basal cell carcinoma
2. Actinic keratosis
3. Bowen's disease
4. Squamous cell carcinoma
5. Malignant melanoma
6. Extramammary Paget's disease

B. Benign skin tumor:

1. Epidermal inclusion cyst
2. Pilar cyst
3. Steatocystoma multiplex
4. Seborrheic keratosis
5. Soft fibroma
6. Cutaneous horn
7. Syringomatosis
8. Glomus tumor
9. Pilomatricoma

10. Keratoacanthoma

第 6 單元

授課主題：Connective tissue disease

教師：洪宏翔

授課時間：50 分鐘

PowerPoint：56 張

學習目標：學習結締組織疾病的診斷，臨床意涵、治療及預後，強調其臨床膚表徵。

大綱：

- A. Definition and diagnosis of Connective tissue disease
- B. Gilliam Classification of Skin Lesions Associated with LE
- C. Dermatomyositis & Polymyositis
- D. Dermatologic Features
- E. Scleroderma
- F. Classification of Scleroderma
- G. CREST Syndrome
- H. Other CTDsMixed connective tissue disease (MCTD)
 - 1. Sjogren's syndrome
 - 2. Rheumatoid arthritis
 - 3. Relapsing polychondritis

第 7 單元

授課主題：Bullous Diseases

教師：洪宏翔

授課時間：50 分鐘

PowerPoint：60 張

學習目標：學習水皰病之原因、機轉、臨床病程、診斷、治療及預後。

大綱：

- A. Definition and diagnosis of bullous diseases
- B. Primary Bullous Dermatoses
 - 1. Pemphigus group
 - 2. Bullous pemphigoid group
 - 3. Dermatitis herpetiformis
 - 4. Linear IgA dermatosis
 - 5. Chronic bullous dermatoses of childhood
 - 6. Epidermolysis bullosa acquisita
- C. Classification of Pemphigus
 - 1. Pemphigus vulgarisPemphigus foliaceus
- D. Paraneoplastic pemphigus
 - IgA PemphigusPemphigoid Group of Diseases
- E. Dermatitis herpetiformis (DH) is a rare, chronic, intensely burning and pruritic vesicular skin disease.
- F. Linear IgA Dermatitis

G. Chronic Bullous Dermatosis of Childhood

1. A variant of linear IgA dermatoses
2. Most in children younger than 5 y/o
3. Tense bullae on inflammatory bases (strings of jewels), frequently in perineum and perioral regions.
4. Immunopathology: same as linear IgA dermatoses
5. Treatment: Dapsone; Sulfapyridine; Low-dose prednisolone

第 8 單元

授課主題：Metabolic skin disease & Genodermatoses

教師：許仲瑤

授課時間：50 分鐘

PowerPoint：100 張

學習目標：學習代謝性疾病及遺傳性疾病的皮膚表現及機轉，以協助診斷及治療。

大綱：

A. Key cutaneous components to examine in Metabolic disease and Genodermatoses

B. Skin manifestation of common Metabolic diseases

1. Nutritional disease
2. Errors in amino acid metabolism
3. Porphyria
4. Amyloidosis
5. Gout and pseudogout
6. Xanthomatoses and lipoprotein disorders
7. Cutaneous mineralization and ossification
8. Diabetes – (to be learned in Endocrine disease)

C. Skin manifestation of common Heritable Disease

1. Tuberous sclerosis complex (AD): TSC1/TSC2
2. Neurofibromatosis (AD): NF1/ NF2
3. Connective tissue disease: e.g. Ehler-Danlos syndrome (AD/AR) COL5A1-2
4. Genome instability and DNA repair : e.g. Xeroderma pigmentosa (AR) XPA-G
5. Incontinentia pigmenti (Xq28): NEMO
6. Hereditary bullous dermatoses: inherited epidermolysis bullosa, Hailey-Hailey, Darier Disease
7. Hereditary disorders of keratinization: e.g. Ichthyosis
8. Ectodermal dysplasias
9. Genetic immunodeficiency diseases

第 9 單元

授課主題：皮膚色素異常

教師：翁雯柔

授課時間：50 分鐘

PowerPoint：30 張

學習目標：學習皮膚色素異常的分類、診斷，伴隨疾病、治療及預後。

大綱：

Hypomelanosis

A. Congenital:

1. Melanocyte abnormality: Piebaldism, Waardenburg syndrome, oculocutaneous albinism
2. Melanosome abnormality: Griscelli syndrome, Elejalde syndrome, Chediak-Higashi syndrome, Hermansky-Pudlak syndrome

B. Acquired:

1. Localized: tinea versicolor, pityriasis alba, lichen sclerosis, vitiligo, chemical agents
2. Generalized: nutrition, endocrine, idiopathic guttate hypomelanosis, progressive macular hypomelanosis, confetti spots, nevus anemicus

Hypermelanosis:

A. Congenital:

1. Circumscribed: lentigo, ephelides, nevus of Hori, post-inflammatory hyperpigmentation, fixed drug eruption, Rhiel's melanosis, erythema dyschromicum perstans, Becker's nevus, lentigo
2. Generalized: nutrition, metabolic, endocrine, medication, POEMS syndrome, systemic sclerosis

B. Acquired:

1. Circumscribed: nevus of Ota, nevus of Ito, Mongolian spot, Peutz-Jeghers syndrome, LEOPARD syndrome, neurofibromatosis type I, Carney complex
2. Generalized: dyskeratosis congenital, X-linked reticular pigmentary disorder, Naegeli-Franceschetti-Jadassohn syndrome, dermatopathia pigmentosa reticularis, Dowling-Degos disease, Kitamura reticular acropigmentation, dyschromatosis hereditaria universalis

第 10 單元

授課主題：Endocrine disease, hypertrophies, atrophies and dermal elastoses

教師：林靜怡

授課時間：50 分鐘

PowerPoint：59 張

學習目標：

- A. to understand the cutaneous manifestations of diabetes mellitus
- B. to understand the cutaneous manifestations due to disorders of thyroids, parathyroids, adrenal glands, sex hormones or growth hormones

大綱：

- A. Cutaneous disorders of diabetes mellitus associated with metabolic, vascular, neurologic, or immunologic abnormalities.
- B. Disorders associated with diabetes mellitus but of unknown pathogenesis.
- C. Cutaneous manifestations of hyperthyroidism, hypothyroidism.

- D. Cutaneous manifestations of parathyroid disease.
- E. Cutaneous manifestations of disorders of the adrenal gland.
- F. Cutaneous manifestations of estrogen excess and deficiency.
- G. Cutaneous manifestations of androgen excess.
- H. Cutaneous manifestations of disorders of growth hormone.

第 11 單元

授課主題：Cutaneous Vasculitis disease

教師：楊志勛

授課時間：50 分鐘

PowerPoint：76 張

學習目標：學習血管炎之原因、機轉、臨床病程、診斷、治療及預後。

大綱：

- A. Common Etiologies of Cutaneous Vasculitis
- B. Pathology
- C. Classification
- D. Predominantly Medium-sized Vessels Vasculitis
 - Polyarteritis nodosa
- E. Predominantly Small and Medium-sized Vessels Vasculitis
 - Wegener's Granulomatosis
 - Churg-Strauss syndrome
 - Microscopic polyangiitis
- F. Small-sized Vessels Vasculitis
 - Henoch-Schonlein purpura
 - Urticarial Vasculitis
 - Cutaneous Small-Vessel Vasculitis
- G. Vasculitis secondary to connective tissue disease
- H. Management of vasculitis

第 12 單元

授課主題：Pediatric dermatology

教師：施一新

授課時間：100 分鐘

PowerPoint：100 張

學習目標：認識兒童皮膚科學及常見兒童皮膚病。

大綱：

- A. Introduction to pediatric dermatology
- B. Birthmarks and genodermatosis:
 - 1. Birthmarks
 - 2. Nevi and hemangiomas
 - 3. Genodermatosis and associated syndromes
- C. Atopic and seborrheic dermatitis
- D. Infectious diseases:

1. Viral infections
 2. Bacterial infections
 3. Fungal infections
- E. Autoimmune skin diseases
F. Allergy and urticaria
G. Hair and nail diseases
H. Parasites and infestations
I. Miscellaneous

第 13 單元

授課主題：Bacterial infections of the skin

教師：陳明君

授課時間：50 分鐘

PowerPoint：66 張

學習目標：學習各種皮膚細菌感染疾病的診斷，臨床意涵、治療及預後。

大綱：Cutaneous bacterial infections may be divided into primary and secondary types. Primary infections tend to have a characteristic morphology and course, are incited initially by a single organism, and arise in normal skin. Secondary infections originate in diseased skin as a superimposed condition, and this results in an acute or chronic intermingling of the underlying skin disease and the infection.

A. Primary skin infections:

1. Impetigo
2. Ecthyma
3. Bacterial folliculitis
4. Furuncles and Carbuncles
5. Paronychia
6. Erysipelas
7. Cellulitis and abscess
8. H. Lymphangitis
9. Necrotizing Fasciitis

B. Secondary bacterial infections:

C. Cutaneous involvement in systemic bacterial infections:

D. Mycobacterial diseases

1. Tuberculosis of the skin

2. Leprosy

3. Atypical mycobacteria

第 14 單元

授課主題：Dermatoses due to physical factors

教師：陳明君

授課時間：50 分鐘

PowerPoint：70 張

學習目標：學習因為物理性因素引起的皮膚病變之機轉及診斷，和臨床意涵、治療及預後。

大綱：

A. HEAT INJURIES

1. Burns:
2. Miliaria:
3. Erythema Ab Igne:

B. COLD INJURIES

1. Chilblain (pernio)
2. Frostbite (congelatio)
3. Immersion foot (trench foot)

C. ACTINIC INJURY:

1. Sunburn
2. Chronic actinic dermatitis (solar dermatitis)
3. Photodermatoses
4. Radiodermatitis

D. MECHANICAL INJURIES:

1. Callus
2. Clavus (Corn)
3. Friction blisters
4. Black heel
5. Decubitus ulcer
6. Foreign body reactions

第 15 單元

授課主題：Viral dermatoses

教師：何宜承

授課時間：40 分鐘

PowerPoint：100 張

學習目標：皮膚病毒感染症是常見皮膚疾病。簡介病毒學分類、臨床表現、治療及預後。特別強調傳染途徑及疫苗防治成效。

大綱：

A. Classification of herpes virus:

1. ALPHA---Herpes simplex virus type I & II, Varicella-zoster virus (HHV-3).
2. BETA---Cytomegalovirus (CMV), Human herpes virus-6, HHV-7.
3. GAMMA---Kaposi sarcoma-associated herpesvirus (KSHV, HHV-8), Epstein-Barr virus (EBV).

B. Complication and treatment of chicken pox.

C. Complication and treatment of herpes zoster: Ramsay-Hunt syndrome, post-herpetic neuralgia.

D. Complication and treatment of herpes simplex: Erythema multiforme.

E. Classification of pox virus:

1. Milker's nodules or Orf.
2. Molluscum contagiosum

- F. Classification of human papilloma virus (HPV)
- G. Clinical presentation and treatment of human papilloma virus (HPV)
- H. HPV vaccine for cervical cancer and condyloma acuminata currently.
- I. Viral dermatoses presented as fever and rash.

第 16 單元

授課主題：Cutaneous disease caused by arthropods

教師：何宜承

授課時間：20 分鐘

PowerPoint：24 張

學習目標：疥瘡是常見皮膚疾病。簡介疥瘡臨床表現、治療及預後，特別強調傳染途徑及院內感染防治。

大綱：

- A. Definition of arthropoda phylum
- B. Mechanisms of skin injury by arthropods.
 - 1. Mechanical trauma, secondary infections.
 - 2. Injection of injurious substance.
 - 3. Transmission of contagious diseases.
 - 4. Contact or foreign body reaction.
 - 5. Hypersensitivity reactions.
- C. Clinical classification of scabies
- D. Characteristic presentation of scabies.
- E. Treatment of scabies.

第 17 單元

授課主題：Dermatological Therapeutics

教師：莊雅慧

授課時間：70 分鐘

PowerPoint：100 張

學習目標：

- A. 學習皮膚科治療學的觀念、原則及常見的治療方法
- B. 了解不同治療方法之適應症及副作用
- C. 在縱的方面，能夠系統性的整合皮膚病之治療
例如: Systemic glucocorticoids 可以應用在那些皮膚病的治療?
- D. 學習相關的國考/高考試題

大綱：

- A. Topical therapy
 - 1. Topical glucocorticoids
 - 2. Topical antifungal agents
 - 3. Topical antibiotics
 - 4. Topical antiviral agents
 - 5. Topical retinoids
 - 6. Keratolytic agents

- 7. Sunscreens
- B. Systemic therapy
 - 1. Antihistamines
 - 2. Antibiotics
 - 3. Antifungal agents
 - 4. Antiviral drugs
 - 5. Retinoids
 - 6. Systemic glucocorticoids
 - 7. Phototherapy
- C. Surgical therapy
 - 1. Intralesional therapy
 - 2. Cryosurgery
 - 3. Wound dressings
 - 4. Lasers in Dermatology

第 18 單元

授課主題：Hair Disorders

教師：莊雅慧

授課時間：30 分鐘

PowerPoint：47 張

學習目標：

- A. 瞭解基本的毛囊生物學
- B. 學習毛髮脫落的評估及診斷：包括病史詢問、理學檢查及實驗室檢查
- C. 學習毛髮疾病之分類及導致掉髮之原因
- D. 學習常見毛髮疾病之診斷及治療
- E. 學習相關的國考/高考試題

大綱：

- A. Biology of hair follicles
 - 1. Types of hair
 - 2. Transformation of hair
 - 3. Hair growth cycle
- B. Diagnosis & assessment of hair loss
 - 1. General hair history
 - 2. Scalp examination
 - 3. Investigations
- C. Outline of hair disorders
 - Causes of hair loss (alopecia)
- D. Common hair disorders
 - 1. Androgenetic alopecia (雄性基因禿)
 - 2. Alopecia areata (圓禿)
 - 3. Telogen effluvium (休止期落髮)
 - 4. Trichotillomania (拔毛癖)

第 19 單元

授課主題：Drug eruption

教師：胡倩婷

授課時間：50 分鐘

PowerPoint：60 張

學習目標：Types of drug eruption, management and prevention of drug eruption

A. How to make a diagnosis of drug eruption, and how to differentiate the offending drugs

1. Clinical manifestation: (EM, urticaria)
2. Biopsy (lichenoid dermatitis, eosinophils, urticaria vasculitis, epidermal dyskeratosis/necrosis; DIF: DDx. bullous disease)
3. Genetic study

B. Pathogenesis of Drug Eruption

C. Types of Drug Eruption

1. Erythema Multiforme
2. Stevens-Johnson syndrome/TEN
3. Morbilliform drug eruption
4. Hypersensitivity syndrome reaction
5. Urticaria
6. Urticarial vasculitis
7. Drug induced vasculitis
8. Fixed drug eruption
9. Acute generalized exanthematous pustulosis (AGEP)
10. Contact dermatitis

D. Diagnosis & Management

1. Clinical features of potential severe drug reaction
2. Unfavorable prognostic signs
3. Differential diagnosis

課程名稱：耳鼻喉科學(Otorhinolaryngology)

學年：97

學期：2

年級：6

課程大綱

教科書：

1. Otolaryngology: Head and Neck Surgery:
2. Clinical Reference Guide
3. DeWeese and Saunders' Otolaryngology-Head and Neck Surgery (8th ed.)
David E. Schuller, Alexander J. Schleuning Mosby 1993
4. Otolaryngology: Head and Neck Surgery (15th ed.) J. Ballenger, J.B. Snow, Jr
Williams & Wilkins 1996
5. Boies Fundamentals of Otolaryngology (6th ed.) Adams - Boies - Hilger
Saunders 1989
6. Ear, Nose, and Throat Diseases A Pocket Reference (2nd ed.) Becker,
Naumann, Pfaltz Thieme 1994

參考書：

1. Essential Otolaryngology:
Head & Neck Surgery 8/e;
2. Otolaryngology: The Essentials
3. 耳鼻喉科醫典

整體教學目標：

徹底了解耳鼻喉科學及其臨床運用。

1. 配合耳鼻喉科學授課內容輔以臨床教學。
2. 實地見習耳鼻喉科學，包括門診、開刀、病房處置及追縱。

教學方法：

每一見習醫師由一專任教學主治醫師負責，由主治醫師分配 1-2 名病患由見習醫師負責照顧，從中學習各種 ENT 疾病之診斷、治療、追蹤及預後，教學地點包括 ENT 門診（含聽語治療室）、開刀房、病房及實驗室，教學的實務包括晨會(病例討論、論文研讀、topic review、surgical morbidity and mortality、tumor board (pathology、radiology combined meeting))，每日主治醫師查房，teaching round，CR bedside teaching，開刀房內實際參予手術進行，術後的照護，追蹤，病患基本資料的建檔及分析，預後的評估.....等。

中文課程簡介：

在耳鼻喉科見習課程中，在資深主治大夫的指導下，學生將藉著參加長庚醫院耳鼻喉科之每日作習—包括晨會、查房、門診（包括聽語治療、鼻阻力檢查）、開刀房及住院病人照護來充份學習耳鼻喉科學。

在資深主治大夫的帶領及指導下，學生將有機會親自詢問病人的病史，檢查及照護病人，並有機會協助手術進行，並充分參予病人治療計劃的制定，並實際在病床邊照護病人。並在病人離院之後，探討其併發症，並研究如何避免或預防。在課程結束後，學生將要繳交見習報告，並和指導的資深主治醫師 1 對 1 討論。

英文課程簡介：

The aim of otolaryngology observe is to fully understand the practise of

otolaryngology and its allied science by attending the daily schedule of Department Otolaryngology in CGMH such as morning meeting, ward round, outpatient clinics (including speech-swallow lab, rhinology lab), operation room, and in patient care etc. The students will have the chance to take history, examine, and care patients under senior VS guide and also to participate the treatment plan, assist surgery, practice ward care and review the morbidity and mortality.

成績考核：

晨會問答：10%

門診實際操作：30%

手術過程：30%

見習報告：30%

教學進度

項次	上課日期/ 星期	開始/結 束 節次	時 數	授課教 師	教學進度
1	2009-02-04 (三)	5 - 6	2	李學禹	<u>Diseases of Larynx, Bronchoesophagology</u>
2	2009-02-04 (三)	7 - 8	2	陳盈霖	<u>Tumor of the Nose and Paranasal sinuses</u>
3	2009-02-05 (四)	1 - 2	2	陳一豪	<u>Diseases of Salivary Glands & Facial nerve</u>
4	2009-02-05 (四)	3 - 4	2	侯勝博	<u>NPC & Skull Base Surgery</u>
5	2009-02-05 (四)	5 - 6	2	吳哲民	<u>Diseases of External Ear and Middle Ear</u>
6	2009-02-05 (四)	7 - 8	2	黃俊生	<u>Diseases of Inner Ear and Clinical Audiology, including otoneurology</u>
7	2009-02-06 (五)	1 - 2	2	葉瑞銘	<u>Pediatric Otolaryngology</u>
8	2009-02-06 (五)	3 - 4	2	蘇志英	<u>Head & Neck Cancer</u>
9	2009-02-06 (五)	5 - 6	2	李達人	<u>Diseases of the Nose and Paranasal Sinuses</u>

課程名稱：耳鼻喉科學(Otorhinolaryngology)

第 1 單元

授課主題：Laryngology, Laser in Otolaryngology, Snoring and obstructive sleep apnea

教師：李學禹

授課時間：100 分鐘

學習目標：喉部相關之解剖、生理、音聲機轉、常見疾病及治療方式。
雷射在耳鼻喉科之應用。
睡眠呼吸障礙之診斷與治療。

大綱：

A.

1. Anatomy of the larynx
2. Microhistology of the vocal fold
3. Physiology of the larynx
4. Mechanism of phonation
5. Voice examination
6. Common laryngeal disorders
7. Treatment of Voice disorders
 - (1) Medication
 - (2) Voice therapy
 - (3) Phonosurgery

B. Laser in otolaryngology

C. Snoring and obstructive sleep apnea (OSA)

1. Evaluation of sleep-disordered breathing
2. Treatment modality for sleep-disordered breathing
3. Indication of sleep surgery
4. Surgical treatment for OSA

第 2 單元

授課主題：Tumor of the Nose and Paranasal sinuses

教師：陳盈霖

授課時間：100 分鐘

大綱：

- A. Symptom of tumor of the nose and paranasal sinuses
- B. Inverted papilloma
- C. Osteoma
- D. Fibrous dysplasia
- E. Ossifying fibroma
- F. Olfactory neuroblastoma
- G. Squamous cell carcinoma
- H. Adenocarcinoma
- I. Adenoid cystic carcinoma
- J. Maxillary sinus tumor staging
- K. Operation methods of sinus tumor
- L. Endoscopy in the management of nasal tumor

第 3 單元

授課主題：Salivary Gland and Facial Nerve Disorder

教師：陳一豪

授課時間：100 分鐘

PowerPoint：79 張

學習目標：學習唾液腺之解剖生理及常見疾病的病因、診斷、治療和預後；
學習顏面神經麻痺之原因、機轉、臨床病程、診斷、治療及預後。

大綱：

A. Physiology and Anatomy of salivary glands

1. Main role of salivary glands
2. Anatomy of major salivary glands: parotid submandibular and sublingual.
3. Salivary Flow Rate

B. Non-neoplastic Disease of the Salivary Gland

1. Acute Inflammatory Disease
2. Granulomatous Disease – TB , Sjogren Syndrome
3. Sialolithiasis
4. Cystic lesions
5. Sialadenosis

C. Salivary Gland Neoplasm

1. Introduction
2. Benign Neoplasm
Pleomorphic adenoma, Warthin's tumor , Monomorphic Adenoma
Oncocytoma
3. Malignant Neoplasm
Mucoepidermoid carcinoma, Adenoid cystic carcinoma, Acinic cell carcinoma,
Carcinoma Ex- pleomorphic Adenoma
4. Frey's syndrome

D. Acute paralysis of the facial nerve

1. Classification
2. Symptoms and Sign
3. Bell's Palsy
4. Herpes Zoster Oticus (Ramsay-Hunt Syndrome)
5. Trauma
6. Otitis Media, mastoiditis, cholesteatoma

第 4 單元

授課主題：NPC & Skull Base Surgery

教師：侯勝博

授課時間：100 分鐘

Powerpoint：127 張

學習目標：學習 NPC 的病因、診斷、治療及併發症處理。學習顱底手術的適應症、手術原則及方式。

大綱：

NPC

- A. Etiology (EBV & others)
- B. Epidemiology
- C. Diagnosis & Pathology, including molecular diagnosis
- D. Treatment
- E. Complications, esp RT related
- F. Prognosis

Skull Base Surgery

- A. Indications
- B. Surgical principles
- C. Surgical procedures
 - Craniofacial resection
 - Transcranial
 - Facial translocation
 - Endoscopic

第 5 單元

授課主題：Diseases of External Ear and Middle Ear

教師：吳哲民

授課時間：100 分鐘

學習目標：學習外耳、中耳構造，病因，各項耳疾的臨床診斷治療及預後。

大綱：

A. External and Middle ear Anatomy and Physiology

B. Diseases of External Ear

1. Infection

External Otitis ("Swimmer's Ear")

Necrotizing External Otitis (Malignant External Otitis)

Perichondritis

Otomycosis

Bullous Myringitis

Herpes Zoster Oticus (Ramsey Hunt Syndrome)

2. Allergy

Contact Dermatitis

Eczema

3. Trauma

Hematoma of Auricle

Laceration of Auricle

Burns

Lacerations of External Canal

Foreign Bodies of EAC

4. Cysts and tumors

Cysts

Benign Lesions

-Keloids

-Exostosis

Malignant Lesions

-Precancerous: Actinic Keratosis

-Basal Cell Epithelioma

-Squamous Cell Carcinoma

C. Diseases of Middle Ear

1. Inflammation and Infection (COM)

2. Cholesteatoma

3. Trauma

4. Tumors

5. Congenital Disorders

第 6 單元

授課主題： Diseases of the Inner Ears & Related Disorders (Neuro-Otology)

教師：黃俊生

授課時間：100 分鐘

學習目標： 學習認識內耳或中樞神經所引發之昏眩及眩暈之機轉、症狀及治療方法。

大綱：

- A. 呈現有平衡障礙(眩暈或昏眩)及聽覺障礙(耳鳴、聽力)諸症狀之內耳疾病(inner ear diseases & related disorders) 之 physiology, pathology 及 diagnosis。
- B. 周邊性眩暈(peripheral vertigo)及中樞性昏眩(central dizziness or vertigo) 之 differential diagnosis。
- C. 周邊性眩暈之內耳各種疾病之特殊症狀, 診斷方法及治療(symptomatology, diagnosis & treatment of various inner ear diseases)。特別注重於最常見之梅尼爾病(Meniere's disease)之診斷及治療。
- D. 中樞性昏眩如聽神經瘤(acoustic neuroma)及腦底動脈循環障礙(vertebrovascular insufficiency 或 VBI)之診斷及治療。特別注重 acoustic neuroma 之聽覺檢查及平衡機能診斷及耳科開刀治療方法。

第 7 單元

授課主題：Pediatric Otolaryngology

教師：葉瑞銘

授課時間：100 分鐘

學習目標：小兒耳鼻喉科重要疾病之表徵, 形成之機轉及治療原則

大綱：

- A. Difference between Pediatric and Adult patients
- B. Otology
 1. embryology of ear
 2. the proper use of otoscope
 3. MEE
 4. preauricular fistula
 5. microtia
 6. pathophysiology of cholesteatoma

7. dysarticulation

C. Rhinology: nose, periorbit and Ant. skull base

1. sinusitis—

2. Juvenile Angiofibroma

3. meningocele, encephalocele etc.

4. AR

5. Choana atresia

D. Laryngology, bronchoesophagology

1. RRP

2. airway FB

3. laryngomalacia

4. childhood hoarseness

5. Pediatric tracheostomy

6. vocal palsy

7. laryngeal web, SGS, tracheostenosis

8. Hemangioma, lymphangioma

9. laryngeal cleft

10. decanulation

11. OSA, tonsil, adenoid

第 8 單元

授課主題: 1. Oral cavity cancer

2. Conservation surgery of laryngopharyngeal cancer

3. Recent advances in phonosurgery

教師: 蘇志英

授課時間: 100 分鐘

Powerpoint: 70 張及 video

學習目標:

A. 口腔癌的診斷與治療

B. 早期、晚期咽喉癌之治療原則

C. 保存性手術法之重要性

D. 困難的嗓音異常病例

E. 如何治療單側聲帶麻痺、聲帶萎縮與女性男聲等等

大綱:

A. Oral cavity cancer

B. Conservation surgery of laryngopharyngeal cancer

C. Recent advances in phonosurgery

第 9 單元

授課主題: Diseases of Nose and Paranasal Sinuses

教師: 李達人

授課時間: 100 分鐘

PowerPoint: 約 50 張

學習目標： 學習鼻部疾病之種類、診斷、治療及預後

大綱：

- A. External nose: vestibulitis(folliculitis), nasal bone fracture
- B. Nasal cavity: nasal bleeding, septal deviation, acute rhinitis, rhinolith, inverted papilloma, rhinogenic headache, nasolabial cyst,
- C. Allergic rhinitis: PE, pathophysiology, medical treatment, surgical treatment
- D. Vasomotor rhinitis
- E. Atrophic rhinitis
- F. Rhinitis medicamentosa
- G. Chronic hypertrophic rhinitis
- H. Sinusitis: pathophysiology, fungal sinusitis, pediatric sinusitis, complication of sinusitis, functional endoscopic sinus surgery (FESS), Caldwell-Luc operation, complications of FESS, nasal polyp
- I. Sinus mucocele and post-op cheek cyst
- J. Sinus malignancy
- K. CSF rhinorrhea, encephalocele

課程名稱：放射治療學(Radiation Therapy)

學年：97

學期：2

年級：6

課程大綱

教科書：

Perez and Brady's Principles and Practice of Radiation Oncology

Lippincott Williams & Wilkins; 5 edition, 2007

參考書：

1. Steven A. Leibel, Theodore L. Phillips

Textbook of Radiation Oncology

2nd ed., W. B. Saunders Company, 2004

2. V. T. Devita, S. Hellman, S. A. Rosenberg

Cancer: Principles and Practices of Oncology

7th ed. Lippincott-Raven Company. 2005

整體教學目標：

本課程之目標在於使學生：

1. 建立對於腫瘤治療整體性的概念。
2. 了解各部位腫瘤的特異性及適當之治療方式。
3. 認識放射治療的原理、運用及最新發展。
4. 了解放射治療在各個腫瘤治療中所扮演的角色。

教學方法：

以課堂上使用電腦及 LCD 講授課程為主。在傳授學生基本放射生物學及放射物理學觀念後，將針對身體不同部位的腫瘤，由專精此領域的臨床醫師，介紹其疾病概念及治療方法。

中文課程簡介：

本課程將由臨床放射物理、放射生物及醫學的專家，依通論及各個部位兩方面傳授最新的腫瘤及放射治療資訊。其中基礎課程(物理、生物)皆為具博士學位之老師授課。而臨床課程老師，授課主題即為其臨床次專科，為其專精主題。授課內容將以基本概念輔以最新文獻結果。學生修習本課程後，應能建立腫瘤治療整體概念，達成上述擬定目標。此對其將來臨床醫師生涯處理癌症病患，將有極大助益。

英文課程簡介：

This class is divided into two parts: (1): General introduction of radiotherapy, including radiation biology and physics. (2): The malignancies of specific sites such as head and neck region, chest region, G-I, G-U and others. In general introduction, we teach the basic concepts for cancer and basic principles of radiation biology and radiation physics. In specific disease sites, we teach the epidemiology, natural course, treatment and radiotherapy for each specific malignancy. The knowledge from this class will help students understand the appropriate cancer management.

成績考核：以期中、期末測試為主

教學進度

項次	上課日期/ 星期	開始/結 束 節次	時 數	授課教 師	教學進度
1	2009-01-10 (六)	1 - 2	2	醫放系 洪志宏	<u>Introduction, Clinical Radiobiology (I)</u> <u>Clinical Radiobiology (II)</u>
2	2009-01-17 (六)	1 - 2	2	醫放系 李宗其	<u>Clinical radiation physics (I)</u> <u>Clinical radiation physics (II)</u>
3	2009-02-07 (六)	1 - 1	1	醫學系 林倩予	<u>Palliative, emergent and supportive treatment</u>
4	2009-02-07 (六)	2 - 2	1	醫放系 洪志宏	<u>G - U tumor</u>
5	2009-02-14 (六)	1 - 1	1	醫學系 內科 白冰清	<u>H & N cancer</u>
6	2009-02-14 (六)	2 - 2	1	醫學系 張東杰	<u>NPC</u>
7	2009-02-21 (六)	1 - 1	1	中醫系 曾雁明	<u>G - I cancer</u>
8	2009-02-21 (六)	2 - 2	1	醫放系 王俊傑	<u>Thoracic tumor</u>
9	2009-02-28 (六)	1 - 1	1	醫學系 梁為民	<u>Breast cancer</u>
10	2009-02-28 (六)	2 - 2	1	醫學系 蔡介生	<u>Gynecological cancer</u>
11	2009-03-07 (六)	1 - 2	2	醫學系 放射治 療科 曾振淦	<u>Pediatric tumor</u> <u>CNS tumor</u>
12	2009-03-14 (六)	1 - 2	2	醫放系 林信吟	<u>Leukemia and Lymphoma</u> <u>Colon - rectal cancer</u>
13	2009-03-21 (六)	1 - 2	2	醫放系 洪志宏	Final examination

課程名稱：放射治療學(Radiation Therapy)

第 1 單元

授課主題：Introduction, Clinical Radiobiology (I)

教師：洪志宏

授課時間：50 分鐘

Powerpoint：35 張

學習目標：台灣癌症統計資料、游離輻射介紹、放射生物效應。

大綱：

A. Cancer statistics and characteristics in Taiwan.

1. Incidence
 2. Trend
 3. Characteristics
- B. Introduction to ionizing radiation
1. Physics
 2. Chemistry
 3. Biology
- C. Definition of cell death after irradiation

第 2 單元

授課主題：Clinical Radiobiology (II)

教師：洪志宏

授課時間：50 分鐘

Powerpoint：34 張

學習目標：放射生物效應、正常組織反應、臨床放射治療介紹

大綱：

- A. Radiation biology
- B. Normal tissue responses
- C. Basic principles of radiotherapy (RT)
 1. The aim of RT.
 2. Tumor control probability and normal tissue complication probability
 3. Fractionation in RT.
 4. Fractionation schedule in RT.

第 3 單元

授課主題：Clinical radiation physics I-II

教師：李宗其

授課時間：100 分鐘

Powerpoint：53 張

學習目標：基礎放射物理、放射治療常用儀器及物理量、一般放射治療物理知識。

大綱：

- A. Atomic and Nuclear Structure
- B. Radiation units
- C. Production of Ionizing Radiation
 1. Radioactivity
 2. Production of X-rays
- D. Interactions of Radiation with Matter
 1. Interaction of photons with matter
 2. Interaction of charged particles with matter
- E. Clinical Radiation Generators
- F. Treatment Planning
 1. Dosimetry parameters
 2. Isodose distribution

3. Plan evaluation tools

G. Introduction to Special Treatment Modalities

H. Quality Assurance

第 4 單元

授課主題：Palliative, emergent and supportive treatment

教師：林倩仔

授課時間：50 分鐘

Powerpoint：63 張

學習目標：了解癌症末期症狀、緩解性及緊急放射線治療的給予及病患治療預後。

大綱：

A. Aim of RT and its definition

1. Curative

2. Palliative

B. Palliative RT concept and treatment schedule:

1. Consideration of patients' requirement and radiobiology effect

2. Short term palliative RT

3. Long term palliative RT

C. Indications of palliation: clinical presentation、tumor survey、treatment and complications

2. Brain metastasis

3. Skeletal metastasis

4. Spinal cord compression

5. Superior vena cava syndrome

第 5 單元

授課主題：G - U tumor

教師：洪志宏

授課時間：50 分鐘

Powerpoint：50 張

學習目標：攝護腺癌之治療

大綱：

A. Anatomy of prostate

B. Incidence of prostate cancer

C. Risk factors for prostate cancer

D. Management of prostate cancer

E. Radiotherapy for prostate cancer

1. External beam

2. Interstitial implantation.

第 6 單元

授課主題：Head and Neck Cancer

教師：白冰清

授課時間：50 分鐘

Powerpoint：68 張

學習目標：頭頸部腫瘤好發的部位，臨床表現，腫瘤診斷，病理種類，治療方式，以及治療的預後。

大綱：

- A. Definition of head and neck cancer
- B. Incidence and Epidemiology.
- C. Etiology.
- D. Pathology: SCC, lymphoma, small cell ca...
- E. Symptoms and Signs
- F. Neck Lymphadenopathy: level I ~ IV. Ipsilateral & contralateral site.
- G. Staging: TNM AJCC staging system
- H. Natural History and Patterns of Spread of H&N cancer
- I. Treatment - general rule:
 - 1. Operation,
 - 2. radiotherapy,
 - 3. chemotherapy,
 - 4. target therapy
- J. Radiation dose, complication

第 7 單元

授課主題：Nasopharyngeal Cancer (NPC)

教師：張東杰

授課時間：50 分鐘

Powerpoint：65 張

學習目標：Understand the epidemiology, staging method, treatment modality, prognosis and outcome of nasopharyngeal cancer。

大綱：

- A. Anatomy of nasopharynx and epidemiology of NPC
- B. Staging and metastasis pathway of NPC
- C. Radiotherapy treatment methods
 - 1. conventional radiotherapy
 - 2. 3D conformal radiotherapy
 - 3. Intensity modulation radiotherapy
 - 4. Image guided radiotherapy
 - 5. Proton therapy
- D. Chemotherapy
- E. Treatment result by different modalities
- F. F-18 FDG PET in NPC
 - 1. staging
 - 2. treatment result outcome
 - 3. image fusion
- G. F. Patient centered outcome

第 8 單元

授課主題：GI cancer

教師：曾雁明

授課時間：50 分鐘

PowerPoint：15 張

學習目標：簡單介紹放射治療對 GI cancer 所扮演的角色、及放射治療所引起的副作用。

大綱：

- A. Esophageal cancer
- B. Gastric cancer
- C. Pancreatic Cancer
- D. Adult primary liver cancer
- E. Extrahepatic bile duct cancer
- F. Gallbladder cancer
- G. Small intestine cancer
- H. Gastrointestinal stromal tumor
- I. Colon cancer
- J. Rectal cancer
- K. Anal cancer
- L. Intraoperative radiotherapy

第 9 單元

授課主題：Lung cancer

教師：王俊傑

授課時間：50 分鐘

Powerpoint：40 張

學習目標：肺癌的流行病學、癌症分期、放射治療的使用及預後。

大綱：

- A. Epidemiology of lung cancer in Taiwan and the world.
- B. Lung cancer: AJCC staging
- C. General treatment guidelines for lung cancer
- D. Radiation therapy for lung cancer
 - 1. NCCN guidelines
 - 2. PET application
 - 3. 4-D CT and respiratory gating for lung irradiation

第 10 單元

授課主題：Radiotherapy in Breast Cancer

教師：梁為民

授課時間：50 分鐘

Powerpoint：45 張

學習目標：放射治療該如何應用在乳癌病患

大綱：

- A. Introduction
- B. Definitions
- C. Anatomy
- D. Staging
- E. The Role of Radiotherapy in the Treatment of Breast Cancer
- F. Radiotherapy after Mastectomy
- G. Breast Conservation Therapy
- H. Radiation and Chemotherapy Sequence

第 11 單元

授課主題：Radiotherapy for gynecologic cancer

教師：蔡介生

授課時間：50 分鐘

Powerpoint：30 張

學習目標：放射線治療在婦癌的臨床應用、治療方式及成果。

大綱：

A. Cervical cancer

1. anatomy and lymphatic drainage of cervical cancer
2. treatment methods: external beam and brachytherapy
3. prognostic factors for cervical cancer
4. prophylactic extended field radiotherapy
5. concurrent chemoradiation
6. indication of post-operative adjuvant radiotherapy

B. Endometrial cancer

1. staging and risk factors of endometrial cancer
2. indication of post-operative adjuvant radiotherapy

C. Ovarian Cancer

1. adjuvant radiotherapy

D. Vaginal and vulvar cancer

第 12 單元

授課主題：Radiation therapy for CNS tumors

教師：曾振淦

授課時間：100 分鐘

Powerpoint：59 張

學習目標：學習常見的中樞神經系統腫瘤，以及放射線治療的使用時機和可能發生的副作用。

大綱：

A. Brain tumors

B. Brain tumor classification and RT indication

1. Glioma (high and low grade)
2. Primitive neuroectodermal tumor
3. Benign brain tumors
4. Metastatic brain tumor

- C. The RT techniques used in the CNS tumor treatment
- D. Tolerance of normal brain tissue to radiation
- E. Complications of radiation therapy

第 13 單元

授課主題：Lymphoma and Leukemia

教師：林信吟

授課時間：50 分鐘

Powerpoint：50 張

學習目標：The role of RT in this disease entity. The importance of combined modality therapy. The concepts of contiguous spread and RT field arrangement. Prognostic factors. The comparison and distinctions between HL and NHL.

大綱：

- A. Indications for prophylactic cranial irradiation in the treatment of leukemia
- B. The evolution of pathological classification, with emphasis on the development of WHO classification
- C. Prognostic factors in Hodgkin's lymphoma (HL)
- D. The concept of Contiguity (contiguous spread), the risk for subclinical disease
- E. The role of radiotherapy (RT) in HL
- F. RT field arrangements in HL
- G. Introduction of non-Hodgkin's lymphoma (NHL), with emphasis on the comparison between HL and NHL
- H. Prognostic features of non-Hodgkin's lymphoma
- I. The role and indication of RT in NHL

第 14 單元

授課主題：Colorectal Cancer

教師：林信吟

授課時間：50 分鐘

Powerpoint：40 張

學習目標：相關解剖學、流行病學、致病危險因子、預後因子、分期系統、放射治療技術面及副作用、治療建議。

大綱：

- A. Related Anatomy
- B. Epidemiology and Risk Factors for CRC
- C. Pathology and Prognostic Determinants of CRC
- D. Staging System and Other Prognostic Factors
- E. Toxicity of Pelvic RT
- F. Technical Aspects of Pelvic RT
- G. Treatment Options and Recommendations
 - 1. Surgical Management
 - 2. Neoadjuvant Chemoradiotherapy
 - 3. Adjuvant Therapy after Resection

H. Systemic Chemotherapy

課程名稱：婦產科學(Obstetrics and Gynecology)

學年：97

學期：2

年級：6

課程大綱

教科書：

1. F. G. Cunningham, P. C. MacDonald, N. F. Gant: Williams Obstetrics. 21th ed. McGraw-Hill U.S.A., 2001.
2. Arthur L. Herbst, Daniel R. Mishell, Morton A. Stenchever, William Droegemueller: Comprehensive Gynecology. 3rd ed. Mosby Year Book, U.S.A., 2000.
3. Jonathan S. Berek, Eli Y. Adashi, Paula A. Hillard: Novak's Gynecology. 13th ed. Williams & Wilkins, Baltimore, U.S.A., 2002.

參考書：

1. Leon Speroff, Robert H. Glass, Nathan G. Kase: Clinical Gynecologic Endocrinology and Infertility. 6th ed. Williams & Wilkins, Baltimore, U.S.A., 1999.
2. Samuel S. C. Yen, Robert B. Jaffe: Reproductive Endocrinology. 5th ed. W. B. Saunders company, Philadelphia, U.S.A., 2004
3. Berek JS, Hacker NF: Practical Gynecologic Oncology. 3rd ed. Lippincott Williams & Wilkins, 2000.
4. Donald R. Ostergard, Alfred E. Bent: Urogynecology and Urodynamics Theory and Practice. 4th ed. Williams & Wilkins, U.S.A., 2003.
5. Philip J. Disaia & William T. Creasman: Clinical Gynecologic Oncology. 5th ed. Mosby Year Book, U.S.A., 1997.
6. David H. Nichols Daniel L., Clarke-Pearson: Gynecologic, Obstetric, and Related Surgery. 2nd ed. Mosby, U.S.A., 2000.
7. Peter R. Brinsden & Paul A. Rainsbury: A Textbook of in Vitro Fertilization and Assisted Reproduction. 2nd ed. The Parthenon Publishing Group, U.S.A., 1999.
8. John D. Thompson, John A. Rock: Te Linde's Operative Gynecology. 9th ed. J. B. Lippincott Company, Philadelphia, U.S.A., 2003.
9. J. Thomas Benson: Female Pelvic Floor Disorders. Norton Medical Books, U.S.A., 2000.
10. J. Donnez, M. Nisolle: An Atlas of Laser Operative Laparoscopy and Hysteroscopy. The Parthenon Publishing Group, U.S.A., 1994.
11. Jacques Lorrain, L. Plouffe, V. Ravnkar, L. Speroff: Comprehensive Management of Menopause. Springer-Verlag, U.S.A., 1993.
12. C. Y. Liu: Laparoscopic Hysterectomy and Pelvic Floor Reconstruction. Blackwell Science, Inc. U.S.A., 1996.

整體教學目標：

1. 瞭解懷孕及生產過程。
2. 熟悉接生的方式。

3. 推行婦女癌症篩檢，如子宮頸抹片。
4. 知道懷孕、授乳期間內外科疾病的處理原則及用藥選擇。
5. 瞭解婦產科各項疾病及致病機轉，以作為以後鑑別診斷參考。
6. 因瞭解女性生理而以更人性化的態度關懷女性病患。

教學方法：

1. 以問題導向學習 (problem-based learning) PBL 的方式就實際的教案讓學生主動學習增進解決問題的能力，和同儕間良性互動的關係。
2. 經由參與教學門診和跟診，培養學生思考，推理並做鑑別診斷的能力。
3. 每週的查房，床邊教學後讓學生透過寫報告的方式，來深入瞭解病患的病情及治療，也增加了對病患人性化關懷 (humanistic)。
4. 利用各種特殊檢查的作法及結果、判讀的實際示範課程讓學生的推理更延伸,更準確。
5. 藉由觀察手術讓學生的學習更具體化。
6. 輔以系統性演講，以確保其知識深度。

中文課程簡介：

婦產科學自民國 89 年起全面翻新教學方法及內容，新課程把演講 (lecture) 和見習結合為一，在 9 週的時間內完成。新課程最重要的精神，在於使用"以問題為本學習" (PBL) 教學法，學生被分成 10 個人左右的小組相互合作學習，以練習人際關係及互動，而整個課程就設計成以臨床問題為導向，讓學生主動、積極去學習。在 9 週之中，每週設計一個中心主題，由最基本的懷孕、生產開始，到高危險妊娠、婦科疾病、腫瘤、婦科癌症、不孕症、尿失禁等婦女泌尿問題，由淺入深，讓學生學到整個婦產科學，學生每個禮拜一上午到教室就接觸到一個臨床問題，經過討論，而得到學習議題 (learning issue) 學生分別去找答案，就在找答案過程中主動學習，老師再輔以適切之系列演講。本課程另一特點就是臨床教學非常的實際，其中包括床邊教學 (bedside teaching)、手術觀察、特別專題、每月一次的值班，並讓學生直接參與照顧住院病患。在每週一例的程度下，學生主動診視病人，寫病程記錄 (progression note) 後再由專人進行病歷迴診 (chart sound)，確認學習成效。成績的評估則刻意降低過去被認為填壓式教育的系列性演講，所佔的比重，大幅提升學生在 PBL 課堂上討論及準備內容的比重，再配合臨床報告，讓學生們主動學習，代替罰則，一百多張幻燈片的填壓式教育，小組成員互動合作，代替斤斤計較分數的狹隘人際關係。

英文課程簡介：

Abstract of course of OB/GYN (6th grade of CGU)

The new course of obstetrics and gynecology started from July 2001, which includes lectures and clinical probation in a 9-week period. The main aim of this course is to teach student the knowledge about women's health as well as the attitude of initiative learning. The problem-based learning (PBL) method in small group is applied in the course. And the entire course is a PBL-based curriculum. The 9-week course was well designed to cover general obstetrics for 2 weeks, high-risk pregnancy for 1 week, general gynecology for 3 weeks, gynecologic oncology for 1 week, infertility for 1 week, female urology and laparoscopy for 1 week. Students start each week's learning from tutorial 1 of PBL in the Monday morning to encounter the clinical problem that is related to the central theme of the learning objective of that week. Learning issues are generated after the tutorial 1 and press students forward to find answers from the facilitators, and

then are presented and discussed in a student-organized conference. Tutorial 2 of the week will be given on Thursday morning to complete the PBL of that week. To ensure the efficacy of PBL and to pass rate of the national license test, background knowledge are given in organized lectures. Bedside teaching and observation of surgery are arranged in a basically one-on-one setting. Teaching clinics and care of admitted patient make students to approach patients realistically, and help students see their need and therefore learn more actively. For those subjects requiring actual practice, special issues bring students to the laboratories and units for hand-on.

成績考核：

1. PBL 課：指導老師評分數。
2. 系統性演講：學期考試。
3. 查房 (bedside teaching)：繳交案例報告。
4. 特別專題 (special issue)：繳交實際參與心得報告。
5. 手術觀察：課後討論，手術中的討論。
6. Chart round：針對每位學生每週所分配照顧到的唯一病例進行小組討論。
7. 導師時間：每週由週導師評估該週之學習成效。

教學進度

項次	上課日期/ 星期	開始/結束 時間	授課教 師	教學進度
1	2009-01-05 (一)	8:30-10:10	謝燦堂	<u>Physiology of pregnancy</u>
2	2009-01-05 (一)	13:10-14:50	徐振傑	<u>Management of normal pregnancy</u> <u>Prenatal care</u> <u>Techniques to evaluate fetal health</u> <u>Amniocentesis, CVS</u>
3	2009-01-05 (一)	15:00-16:50	鄭博仁	<u>Normal labor and delivery</u>
4	2009-01-06 (二)	8:30-10:10	邱宗鴻	<u>Obstetric ultrasound (level I, II)</u> (含fetal echocardiography)
5	2009-01-06 (二)	10:20-12:00	黃樹欽	<u>Analgesia & anesthesia in OBS</u>
6	2009-01-06 (二)	15:00-16:50	羅良明	I. <u>Operative obstetrics</u> II. <u>Abnormalities of the puerperium</u>
7	2009-01-07 (三)	10:20-12:00	張舜智	<u>Prenatal genetics</u>
8	2009-01-07 (三)	13:10-14:50	許德耀	<u>Fetal abnormalities: Inherited and acquired disorders</u> <u>Drugs and medications during</u>

				<u>pregnancy</u>
9	2009-01-07 (三)	15:00-16:50	洪泰和	<u>Obstetric hemorrhage</u>
10	2009-01-08 (四)	8:30-10:10	王子豪	<u>Medical complications in pregnancy</u>
11	2009-01-08 (四)	10:20-12:00	趙安祥	<u>Fetal therapy & MRI</u>
12	2009-01-08 (四)	15:00-16:50	黃富仁	<u>Oocyte donation、人工生殖之醫療法規及倫理、PGD</u>
13	2009-01-09 (五)	8:30-10:10	王馨世	<u>Amenorrhea endocrine disorders</u> <u>Normal menstrual and ovarian cycle & ovarian function (follicular growth and steroidogenesis)</u>
14	2009-01-09 (五)	10:20-12:00	張嘉琳	<u>Chronic pelvic pain</u>
15	2009-01-09 (五)	13:10-14:50	張明揚	<u>Reproductive endocrinology, puberty, hyperprolactinemia, sex differentiation</u>
16	2009-01-09 (五)	15:00-16:50	張廷彰	<u>Gestational trophoblastic disease (GTD)</u>
17	2009-01-12 (一)	8:30-10:10	龔福財	<u>Dysfunctional uterine bleeding (DUB), polycystic ovarian syndrome (PCO)</u>
18	2009-01-12 (一)	10:20-12:00	黃慧君	<u>Breast disease</u>
19	2009-01-13 (二)	8:30-10:10	郭東明	<u>Benign disease of the female reproductive tract</u>
20	2009-01-13 (二)	10:20-12:00	江其鑫	<u>Ectopic pregnancy, recurrent early preg loss, abortion, RU486</u>
21	2009-01-13 (二)	13:10-14:50	劉瑞德	<u>Intraepithelial disease of the cervix, vagina & vulva</u>
22	2009-01-13 (二)	15:00-16:50	陳芳萍	<u>Reproductive conservative surgery</u>
23	2009-01-14 (三)	10:20-12:00	黃寬慧	<u>Preventive health care and screening, family planning, contraception</u>
24	2009-01-14 (三)	13:10-14:50	宋永魁	<u>Doctor / patient relationship, malpractice</u>
25	2009-01-14 (三)	15:00-16:50	歐家佑	<u>Surgical complications in pregnancy</u>
26	2009-01-15	10:20-12:00	張簡展	<u>Tumors of the endometrium</u>

	(四)		照	<u>Uterine sarcoma, tumors of the fallopian tubes and peritoneum</u>
27	2009-01-15 (四)	13:10-14:50	周宏學	<u>Vulvar cancer and vaginal cancer</u>
28	2009-01-15 (四)	15:00-16:50	藍國忠	<u>Gynecologic ultrasound</u>
29	2009-01-16 (五)	8:30-10:10	賴瓊慧	<u>Management of Adnexal Mass and Ovarian cancer</u>
30	2009-01-16 (五)	13:10-14:50	宋永魁	<u>Infertility & ovulation induction with antiestrogens</u> <u>Assisted reproductive technology (controlled ovarian hyperstimulation [COH] in IVF)</u>
31	2009-01-16 (五)	15:00-16:50	陳光昭	<u>Pelvic inflammatory disease (PID) & STD</u>
32	2009-01-19 (一)	13:10-14:50	李奇龍	<u>Laparoscopic Surgery and Mullerian Anomalies</u>
33	2009-01-19 (一)	15:00-16:50	黃泓淵	<u>Intrauterine insemination [IUI], in vitro fertilization [IVF], intracytoplasmic sperm injection [ICSI], assisted hatching, embryo or blastocyst transfer</u>
34	2009-01-20 (二)	8:30-10:10	王錦榮	<u>Hysteroscopy</u>
35	2009-01-20 (二)	10:20-12:00	梁景忠	<u>Investigation of pelvic floor, overactive bladder</u>
36	2009-01-20 (二)	13:10-14:50	王 誠	<u>Disorders of the pelvic floor & their management (USI)</u>

課程名稱：婦產科學(Obstetrics and Gynecology)

第 1 單元

授課主題：Physiology of pregnancy

教師：謝燦堂

授課時間：100 分鐘

PowerPoint：55 張

學習目標：

- A. 胎膜的起源及發生
- B. 胎盤的起源及發育
- C. 胎盤主要製造的荷爾蒙及其功用
- D. 羊水的生成及功用
- E. 胎兒生理學
- F. 母體因應懷孕的生理變化

大綱：

- A. Implantation
- B. Embryogenesis and formation of fetal membranes
 - 1. Origins of amnion, chorion, yolk sac and allantois
 - 2. Functions of fetal membranes
- C. Placental development
 - 1. Origin, development and structure of placenta
 - 2. Placental hormones
- D. Fetal growth and development
 - 1. Fetal erythropoiesis
 - 2. Fetal circulation
- E. Maternal adaption to pregnancy

第 2 單元

授課主題：Management of normal pregnancy; Prenatal care; Techniques to evaluate fetal health; Prenatal Diagnostic Techniques: amniocentesis, CVS

教師：徐振傑

授課時間：100 分鐘

PowerPoint：47 張

學習目標：產前檢查意義、產前照護方法、胎兒健康評估技巧、產前診斷工具如羊膜穿刺術及絨毛膜取樣術。

大綱：

- A. Prenatal Care
 - 1. Diagnosis of pregnancy
 - i. Sign and symptoms
 - ii. Confirmation of gestational age
 - iii. Expected days of confinement
 - 1. Initial prenatal evaluation

- 甲、Prenatal record
- 乙、History of reproduction
- 丙、Physical examination of pregnancy
- 丁、Laboratory tests counseling

3. Subsequent prenatal visit

- (1). Prenatal surveillance
- (2). Assessment of gestational age
- (3). Subsequent laboratory tests counseling

4. Ancillary prenatal tests

- (1). Fetal Down syndrome screening
- (2). Gestational diabetes mellitus screening
- (3). Hepatitis B prevention strategy
- (4). Group B streptococcus screening
- (5). Special screening for genetic disease

5. Nutrition during pregnancy

- (1). Recommendation for weight gain
- (2). Recommendation dietary allowance

B. Techniques to Evaluate Fetal Health

- (1). Daily fetal movement record
- (2). Contraction stress testing
- (3). Nonstress tests
- (4). Biophysical profile
- (5). Umbilical artery Doppler velocimetry

C. Prenatal Diagnostic Techniques

- (1). Amniocentesis
- (2). Chronic villus sampling (CVS)
- (3). Percutaneous umbilical cord blood sampling (PUBS)

第 3 單元

授課主題：Normal labor and delivery

教師：鄭博仁

授課時間：100 分

PowerPoint：66 張

學習目標：學習正常婦女骨盆腔構造、胎兒與孕婦骨盆腔相對關係、生產機制及過程。

大綱：

A. The normal pelvis

- 1. Passage — The maternal pelvis
- 2. Passenger— The fetus

B. Attitude, lie, presentation, and position of the fetus

- 1. Fetal presentation
- 2. Relationship of presenting part and maternal pelvis

C. Parturition: biomolecular & physiological processes

- 1. Uterine contraction

2. Factors contributing to the labor process

D. Mechanisms of normal labor

1. First stage of labor
2. Second stage of labor
3. Mechanism of labor
4. Third stage of labor

第 4 單元

授課主題：Obstetric Ultrasound (Level I, II Ultrasound)

教師：邱宗鴻

授課時間：100 分鐘

PowerPoint：50 張

學習目標：學習產科初階及高層次超音波檢查之內容、產前胎兒異常之診斷 技巧、臨床相關問題之研判、諮詢及其處置。

大綱：

- A. Scope of OB ultrasound
- B. Clues leading to prenatal ultrasound diagnosis
- C. Craniofacial survey and anomaly detection
- D. Normal and abnormal cardiac 4-chamber views
- E. Landmarks on abdominal circumference
- F. GI tract assessment
- G. GU system evaluation
- H. Sonographic stigmata on chromosomal aberrations
- I. Associated sonographic findings in twins

第 5 單元

授課主題：Analgesia & anesthesia in OBS

教師：黃樹欽

授課時間：100 分鐘

PowerPoint：49 張

學習目標：常見剖腹生產之適應症、無痛生產、對產痛的認識；
剖腹生產之區域半身麻醉、全身麻醉、C/S 全麻之適應症。

大綱：

- A. Analgesia & Anesthesia in Labor
- B. Pharmacology related to pregnancy
 1. Physiological changes during pregnancy
 2. Anesthesia for Cesarean section
 3. Anesthesia for labor and vaginal delivery
 4. Anesthesia for parturient surgery
- C. Alterations in maternal physiology
- D. Anesthetic choices for labor analgesia
- E. Perioperative fluid management
- F. Complication after regional anesthesia

- G. Some immediate serious complications
- H. Spinal Versus Epidural Anesthesia for C/S
- I. Regional vs. General Anesthesia
- J. Indications for GA for C/S
- K. Difficult Airway Management for C/S
- L. Pre-anesthetic management of the obstetric patient
- M. Anesthesia in Parturients with Heart disease, Preeclampsia etc.
- N. Relief of Pain during Childbirth
- O. Different Factors Affecting Labor Pain
- P. Management of Anesthesia for the Pregnant Surgical Patient
- Q. Anesthesia in Pregnant Patients for Nonobstetric Surgery

第 6 單元

授課主題：Operative Obstetrics

教師：羅良明

授課時間：50 分鐘

Power Point：40 張

學習目標：學習產科手術，包括會陰切開，器械輔助式陰道分娩，剖腹生產及產後子宮切除，子宮頸環紮術及流產的適應症，手術方式，合併症及預後

大綱：

- A. Episiotomy: indications, types
- B. Instrumental delivery:
 - Forceps delivery
 - Vacuum extraction
- C. Cesarean section and postpartum hysterectomy
 1. Lower segment transverse, lower segment vertical, classical c/s
 2. Uterine rupture
 3. Vaginal birth after cesarean section
 4. Postpartum hysterectomy
- D. Cervical cerclage: shirodkar technique, McDonald technique, abdominal placement
- E. Abortion
 1. Spontaneous abortion: threatened abortion, inevitable abortion, incomplete abortion, missed abortion
 2. Induced abortion: surgical evacuation, induction of labor, progesterone antagonists

第 7 單元

授課主題：Abnormalities of the Puerperium

教師：羅良明

授課時間：50 分鐘

Power Point：26 張

學習目標：學習產褥期的各項合併症

大綱：

- A. Puerperium: physiology & family planning
- B. Postpartum hemorrhage : risk factors, diagnosis, clinical finding, management plan
- C. Puerperal infection : risk factors, diagnosis, treatment
- D. Episiotomy Complications
- E. Mastitis: congestive mastitis, infective mastitis, breast abscess
- F. Pubic symphysis separation
- G. Obstetrical paralysis
- H. Urinary retention
- I. Puerperal hematoma
- J. Postpartum emotional responses: postpartum blue, postpartum depression, postpartum psychosis

第 8 單元

授課主題：Prenatal Genetics

教師：張舜智

授課時間：100 分鐘

PowerPoint：60 張

學習目標：學習產前篩檢、染色體和基因異常診斷及產前遺傳諮詢。

大綱：

- A. Prenatal screening for Fetal Aneuploidies
 - 1. 1st trimester Combined test
 - 2. 2nd trimester Quad (quadruple test)
- B. Prenatal diagnosis techniques (invasive and noninvasive)
 - 1. Chorionic villous sampling (CVS)
 - 2. Second-trimester genetic amniocentesis (Amnios)
 - 3. Percutaneous umbilical cord blood sampling (PUBS, cordocentesis)
 - 4. Preimplantation genetic diagnosis (PGD)
 - 5. Fetal cells (or DNA) in maternal circulation
- C. Diagnosis of Chromosomal Abnormalities
 - 1. Standard Nomenclature of Chromosome
 - 2. Autosome and Sex Chromosome (Gonosome)
 - (1). Numerical anomalies (trisomy, monosomy, triploidy, tetraploidy, etc)
 - (2). Structural anomalies (balanced and unbalanced)
 - (3). Mosaicism
 - 3. Conventional cytogenetics
 - (1). Banding technique (G-banding, Q-banding, R-banding, NOR-banding, C-banding, DA/DAPI banding, etc)
 - (2). High resolution banding
 - 4. Molecular cytogenetics
 - (1). Fluorescence in situ hybridization (FISH): probes, metaphase and interphase

(2). Comparative genomic hybridization (CGH, array-CGH)

(3). Short tandem repeat (STR polymorphism markers)

D. Diagnosis of genetic disorders

1. Molecular techniques

2. Single gene: Autosomal and X-linked recessive or dominant inheritance

3. Epigenetics: imprinting disorder, uniparental disomy (UPD)

4. Mitochondrial inheritance

5. Polygenic and multifactorial inheritance

E. Prenatal genetic counseling

about diagnostic procedure and genetic test result

第 9 單元

授課主題：Fetal Abnormalities: Inherited and acquired disorders, Teratology, Drugs and Medications during pregnancy

教師：許德耀

授課時間：50 分鐘

PowerPoint：70 張

學習目標：學習胎兒畸形：包括遺傳性異常，畸胎學、藥物及醫療的影響。

大綱：

A. Birth Defect

B. Stages of Development of the embryo or fetus

C. Teratology: Evaluation of potential teratology, Food and drug administration classification

D. Genetic and physiological mechanisms of teratogenicity: Disruption of folic acid metabolism, Oxidative intermediates, Effects of maternal diseases, Fetal genetic composition, Homeobox genes, Paternal exposure.

E. Food and Drug Administration Categories for Drugs and Medications.

F. Drugs Commonly Used in Pregnancy:

1. Infections, Cardiovascular diseases, Seizure disorders, Psychiatric conditions, Analgetics, Local analgesia and anesthesia, antiemetics.

2. Immunosuppressive drugs, Hormones, Natural (herbal) remedies, Illicit drugs.

G. Counseling for Teratogen Exposure: Misconceptions, Underestimate the background risk, Amplified Women have 3 % chance of having a child with a birth defect, Risk versus benefit_ should be introduced.

第 10 單元

授課主題：Obstetric hemorrhage

教師：洪泰和

授課時間：100 分鐘

PowerPoint：65 張

學習目標：產前出血的主要原因及處理、產後出血的主要原因及處理。

大綱：

- A. Maternal mortality in Taiwan
- B. Causes of death due to hemorrhage
- C. Classification and definitions for obstetric hemorrhage
 - 1. Antepartum hemorrhage
 - 2. Postpartum hemorrhage
- D. Antepartum hemorrhage
 - 1. Placenta previa
 - 2. Placental abruption
- E. Postpartum hemorrhage
 - 1. Uterine atony
 - 2. Placenta accrete
 - 3. Uterine inversion
 - 4. Uterine rupture
- F. Sheehan's syndrome

第 11 單元

授課主題：Medical Complications during Pregnancy

教師：王子豪

授課時間：50 分鐘

PowerPoint：50 張

學習目標：學習懷孕期常見內科疾病之原因、機轉、臨床病程、診斷、治療及預後。

大綱：

- A. Chronic hypertension
- B. Acute pulmonary edema and ARDS
- C. Heart disease in pregnancy
- D. Asthma
- E. Antiphospholipid antibody syndrome
- F. Systemic lupus erythematosus
- G. Diabetes mellitus
- H. Thyroid diseases
- I. Epilepsy
- J. Viral infections

第 12 單元

授課主題：Fetal therapy; Magnetic resonance imaging for fetus

教師：趙安祥

授課時間：50 分鐘

PowerPoint：around 50 張

學習目標：1. prenatal management of the fetus with a correctable defect
2. The role of magnetic resonance imaging in obstetrics

大綱：

- A. Fetal therapy
 - 1. Risks and procedure:

- (1). Hysterotomy
- (2). Fetoscopy
- (3). Shunts and radiofrequency ablation

2. Disease entities

- (1). Monochorionic twin problems
- (2). Congenital diaphragmatic hernia
- (3). Congenital Cystic adenomatoid malformation
- (4). Sacrococcygeal teratoma
- (5). Myelomeningocele
- (6). Lower urinary tract obstruction
- (7). Pleural effusions
- (8). Fetal cardiac intervention

B. Magnetic resonance imaging for fetus

1. Safety issues

- (1). Safety of magnetic resonance imaging in pregnancy
 - a. Fast magnetic resonance imaging
 - b. T2-weighted imaging
 - c. T1-weighted imaging
 - d. Maternal imaging
 - e. Pelvimetry
 - f. Placental evaluation
- (2). Safety of computed tomography in pregnancy

2. Imaging beyond anatomy

- (1). Diffusion-weighted imaging
- (2). Magnetic resonance spectrometry
- (3). Oxygenation imaging
- (4). Magnetic resonance volumetry

第 13 單元

授課主題：Oocyte donation、人工生殖之醫療法規及倫理、PGD

教師：黃富仁

授課時間：50 分鐘

PowerPoint：40 張

學習目標：學習如何在人工生殖法的規定同時兼顧醫學倫理下，去實施人工生殖技術。

大綱：

- A. Assisted reproductive technology (ART) 的介紹
- B. 人工生殖法的介紹
- C. 實際個案討論與學習

第 14 單元

授課主題：Normal menstrual and ovarian cycle & ovarian function (follicular growth and steroidogenesis); Amenorrhea and endocrine disorders

教師：王馨世

授課時間：80 分鐘

PowerPoint：100 張

學習目標：學習女性生殖內分泌功能之機轉、無月經症的診斷，臨床表徵、治療及預後。

大綱：

A. Normal menstrual and ovarian cycle

3. Pattern of menstrual cycle
4. Mechanism of follicular growth
5. Steroidogenesis
6. Endocrine changes during menstrual cycle

B. Amenorrhea

1. Definition
2. Clinical presentation
3. Diagnosis
4. Treatment

第 15 單元

授課主題：Chronic Pelvic Pain

教師：張嘉琳

授課時間：50 分鐘

PowerPoint：38 張

學習目標：學習慢性骨盆腔疼痛之致病機轉、診斷，臨床意涵、治療及預後。

大綱：

- A. Definition of Chronic Pelvic Pain
- B. Impact of chronic pelvic pain on quality of life
- C. Causes of chronic pelvic pain
- D. Diagnosis and evaluation
- E. Management

第 16 單元

授課主題：Reproductive endocrinology, puberty, hyperprolactinemia, sex differentiation

教師：張明揚

授課時間：100 分鐘

PowerPoint：40 張

學習目標：學習生殖內分泌之機轉、青春期、泌乳素、性別發育之臨床意涵、治療及預後。

大綱：

- A. Normal reproductive system review
- B. Abnormal menstruation:
 1. Hypothalamic hypogonadism
 2. Polycystic ovarian syndrome
 3. Premature ovarian failure
- C. Pubertal abnormalities
 1. Delayed puberty and primary amenorrhea

- 2. Precocious puberty
- C. Hyperprolactinemia:
 - 6. Prolactin physiology
 - 7. Prolactinoma
- D. Abnormal sex development
 - i. Chromosome abnormalities
 - ii. Sex developmental abnormalities

第 17 單元

授課主題：Gestational Trophoblastic Neoplasia

教師：張廷彰

授課時間：100 分鐘

PowerPoint：67 張

學習目標：妊娠滋養細胞腫瘤介紹、診斷、分期及治療

大綱：

- A. General Information
- B. Epidemiology
- C. Hydatidiform mole
 - 1. Complete mole: Pathogenesis and chromosome pattern
 - 2. Partial mole: Pathogenesis
 - 3. Symptoms
 - 4. Diagnosis
 - 5. Management
 - 6. Pregnancy and risk of second mole after successful management
- D. Gestational trophoblastic neoplasia
 - 1. Histologic classification
 - (1).Choriocarcinoma
 - (2).Placental site trophoblastic tumor (PSTT)
 - 2. Diagnosis
 - 3. Staging and scoring system
 - 4. Treatment
- E. Extraordinary manifestation in gestational trophoblastic disease

第 18 單元

授課主題：Dysfunctional Uterine Bleeding (DUB)

教師：龔福財

授課時間：100 分鐘

大綱：

- A. Consensus in diagnosis of PCOS
- B. Clinical presentations
- C. Association of PCOS, metabolic syndrome and insulin resistance
- D. Management of PCOS
 - 1. Weight reduction, lifestyle change

2. For menstrual regulation: Oral contraceptive pill, progestin
 3. For ovulation induction (infertility):
 - (1). Use of Clomiphene citrate or gonadotropin, in vitro fertilization
 - (2). Ovarian wedge resection
 - (3). Laparoscopic ovarian electrocautery
 - (4). Additional use of insulin sensitizers (Metformin)
 4. For hirsutism (cosmetic): Oral contraceptive pill, ----, hair removal
- E. Throughout life in patients with PCOS

第 19 單元

授課主題：Breast Disease

教師：黃慧君

授課時間：100 分鐘

PowerPoint：96 張

學習目標：學習乳房的解剖、生理及病理學，瞭解乳癌的流行病學、症狀、診斷、治療預後及乳癌與荷爾蒙的關係。

大綱：

A. Anatomy of breast

B. Physiology of breast

1. breast change in puberty (Tanner stage)
2. menstrual cycle change of breast
3. breast change during pregnancy and lactation

C. Breast complaints – evaluation and treatment

1. mastalgia
2. palpable breast mass
3. nipple discharge

D. Benign breast disease

E. Breast cancer

1. epidemiology of breast cancer in Taiwan
2. symptoms and signs of breast cancer
3. predisposing factor of breast cancer
4. diagnosis of breast cancer
5. stage of breast cancer
6. treatment of breast cancer
7. histology of breast cancer
8. prognosis factor of breast cancer
9. hormone and breast cancer
10. breast cancer during pregnancy

第 20 單元

授課主題：Benign Disease of the Female Reproductive Tract

教師：郭東明

授課時間：100 分鐘

PowerPoint : 50 張

學習目標：女性生殖道良性疾病之症狀、外觀、診斷、治療以及預後。

大綱：

A. Abnormal Bleeding

1. Prepubertal Group

- (1). Vulvar and external
- (2). Vaginal
- (3). Uterine
- (4). Ovarine tumor
- (5). Exogenous estrogens

2. Adolescence---Normal menses

- (1). Anovulation
- (2). Pregnancy-related bleeding
- (3). Exogenous hormones
- (4). Hematologic abnormalities
- (5). Infections
- (6). Other endocrine or systemic problems
- (7). Anatomic causes

3. Reproductive Age Group

- (1). Normal menses
- (2). Dysfunctional uterine bleeding
- (3). Pregnancy-related bleeding
- (4). Exogenous hormones
- (5). Endocrine causes
- (6). Anatomic causes
- (7). Coagulopathies and other hematologic causes
- (8). Infectious causes
- (9). Neoplasia

4. Postmenopausal Women

- (1). Benign causes
- (2). Neoplasia

B. Pelvic Mass

1. Prepubertal Age Group

- (1). Ultrasound
- (2). Tumor marker
- (3). Karyotype
- (4). CT, MRI

2. Adolescent Age Group

- (1). Ovarine masses
- (2). Uterine masses
- (3). Inflammatory masses
- (4). Pregnancy

3. Reproductive Age Group

- (1). Uterine masses
- (2). Ovarine masses
- (3). Other benign masses
- (4). Neoplastic masses
- (5). Other adnexal masses

4. Postmenopausal Group

- (1). Ovarian masses
- (2). Uterine and other masses

C. Vulvar Conditions

1. Neonatal, Childhood and Adolescence---Labial fusion, chronic skin condition, sexual abuse
2. Reproductive Women---Bartholin cyst, vulvar ulcer, VIN
3. Postmenopausal Women---Squamous hyperplasia, lichen sclerosis, Mixed dystrophy, VIN

D. Vaginal Conditions---Sexual abuse, foreign body, toxic shock syndrome

第 21 單元

授課主題：Ectopic pregnancy, recurrent abortion, early pregnancy loss, Ru-486

教師：江其鑫

授課時間：100 分鐘

PowerPoint：72 張

學習目標：學習子宮外孕，重覆性流產，早期流產，藥物流產〈Ru-486〉之機轉、超音波的診斷，臨床意涵、治療及預後。

大綱：

- A. Ectopic pregnancy: risk factors, clinical symptoms and signs, beta HCG levels, ultrasound, surgical treatment, medical treatment, prognosis
- B. Spontaneous abortion:
 1. Miscarriage, Embryo, and Abortus
 2. Threatened abortion
 3. Inevitable abortion
 4. Complete and incomplete abortion
 5. Septic abortion
 6. Missed abortion or blighted ovum
- C. Recurrent pregnancy loss (RPL):
 1. Causes of RPL: genetic, endocrines, anatomic defect, autoimmune, infections, idiopathic category, multiple factors
 2. Anti-phospholipid syndrome and medical treatment
 3. Surgery treatment in anatomic defect
 4. Immunotherapy of RPL: maternal, paternal, third party, immunoglobulin
- D. RU-486 (Mifepristone):
 1. Mifepristone: progesterone antagonist
 2. Mechanism of RU-486 induced abortion
 3. RU-486 and misoprostol (cytotec)

4. Clinical application of RU-486 and cytotec
5. Side effect of RU-486
6. Contraindications of RU-486
7. Other application of RU-486

第 22 單元

授課主題：Intraepithelial Disease of the Cervix, vagina and vulva

教師：劉瑞德

授課時間：100 分鐘

PowerPoint：56 張

學習目標：學習子宮頸、陰道、外陰等上皮細胞贅瘤之病因、診斷及治療。

大綱：

A. Cervical intraepithelial neoplasia.

1. Cervical anatomy.
2. Human papilloma virus.
3. Pap test classification.
4. Colposcopy.
5. Evaluation of the abnormal pap smear.
6. Treatment of CIN.
7. Glandular cell abnormalities.

B. Vaginal intraepithelial neoplasia.

1. Signs.
2. Screening.
3. Diagnosis.
4. Treatment.

C. Vulva intraepithelial disease.

第 23 單元

授課主題：Reproductive Conservative Surgery

教師：陳芳萍

授課時間：100 分鐘

PowerPoint：113 張

學習目標：學習輸卵管、卵巢及子宮異常的診斷，臨床意涵、治療及預後。

大綱：

A. Tubal reconstructive surgery

1. Investigation of tubal factor: incidence of infertility, mechanism, diagnosis
2. Microsurgical approach of fallopian tube
3. Tubal reanastomosis
4. Ectopic pregnancy of fallopian tube

B. Ovarian reconstructive surgery

1. Anatomy of ovary
2. Ovarian cystectomy and reconstruction
3. Treatment of endometriosis

4. Management of polycystic ovary
 5. Principle of microsurgical technique
 6. Prevention of adhesion
- C. Uterine reconstructive surgery
1. Congenital anomaly of uterus
 2. Uterine leiomyomas
 3. Asherman's syndrome: etiology, diagnosis, management
 4. Technique of transcervical resectoscopy

第 24 單元

授課主題：Preventive health care and screening ; family planning

教師：黃寬慧

授課時間：100 分鐘

PowerPoint：60 張

大綱：

- A. Leading causes of morbidity by age group
- B. Counseling for health maintenance
- C. Family planning
 1. Non-hormone methods of contraception
 2. Hormonal contraception – oral pills use
 3. Emergency contraception

第 25 單元

授課主題：Doctor/patient relationship, malpractice

教師：宋永魁

授課時間：100 分鐘

Power point：30 張

學習目標：當前醫學倫理的再思、當前醫病關係、醫療爭議之病例分析、危機處理。

大綱：

- A. 醫學倫理原則、生命倫理原則
- B. 變遷中之醫療執業大環境與醫院評鑑
- C. 以病人為中心的病人安全
議題：可近性、持續性、適切性、參與性、完整性、安全性
- D. 醫療爭議病例分析
- E. 危險處理方式

第 26 單元

授課主題：Surgical complications in pregnancy

教師：歐家佑

授課時間：100 分鐘

PowerPoint：97 張

學習目標：學習孕婦合併外科疾病的評估及考量、孕婦常見的外科及並介紹。

大綱：

- A. Surgery during pregnancy
- B. Risk factors for outcomes after abdominal surgery in pregnancy
- C. Effect of surgery and anesthesia
- D. Guidelines for diagnostic imaging during pregnancy
- E. Appendicitis in pregnancy
- F. Adnexal masses in pregnancy
- G. Ovarian cancer in pregnancy
- H. Cervical cancer in pregnancy
- I. Urolithiasis in pregnancy
- J. Biliary tract disease in pregnancy
- K. Cholelithiasis in pregnancy
- L. Acute pancreatitis in pregnancy
- M. Intestine obstruction

第 27 單元

授課主題： Tumors of endometrium; Uterine sarcoma; Tumors of the fallopian tubes and peritoneum

教師：張簡展照

授課時間：100 分鐘

PowerPoint: 50 張

學習目標：瞭解子宮體腫瘤、輸卵管及腹膜腫瘤之原因、機轉、臨床病程、診斷、治療及預後。

大綱：

- A. Clinical features and diagnosis of endometrial cancer
- B. Staging, treatment; and follow-up of endometrial cancer
- C. Uterine papillary serous and clear cell cancer
- D. Classification; clinical manifestations; and staging of uterine sarcoma
- E. Treatment of locally recurrent or advanced endometrial cancer
- F. Treatment of uterine sarcoma
- G. Endometrial hyperplasia
- H. Adenocarcinoma of unknown primary site
- I. Cancer of the fallopian tube

第 28 單元

授課主題： Vulvar cancer and vaginal cancer

教師：周宏學

授課時間：100 分鐘

PowerPoint：57 張

學習目標：認識會陰癌及陰道癌之致病機轉、危險因子以及治療方式之選擇。

大綱：

Part A: Vulvar cancer

- A. Anatomy of vulva and vagina, including blood supply and lymphatic drainage
- B. Incidence of vulvar cancer

- C. Histology: the cell types
- D. Clinical symptom and sign
- E. Etiology, location of disease
- F. Risk factor of outcome
- G. Staging
- H. Management
 - 1. Surgery: vulvectomy and inguinal lymph node dissection
 - 2. Sentinel lymph node dissection
 - 3. Adjuvant treatment after surgery
 - 4. Morbidity and mortality
- I. Recurrence
- J. Survival
- K. Introduction of other variant vulvar cancer

Part B: Vaginal cancer

- A. Age distribution
- B. Clinical profile
- C. Clinical staging
- D. Treatment
- E. Survival
- F. Recurrence pattern

第 29 單元

授課主題：Gynecologic ultrasound

教師：藍國忠

授課時間：100 分鐘

PowerPoint：45 張

學習目標：學習婦科超音波正常與異常顯像、臨床意涵與應用。

大綱：

- A. Normal anatomy and ultrasound picture
- B. Pros and cons of transabdominal and transvaginal sonography
- C. Gynecologic internal genital organ :
 - 1. uterus
 - 2. endometrium
 - 3. adnexal area
 - 4. Vessel Doppler flow
- D. Use of Ultrasonography in Gynecology
- E. Special use in Gynecologic management

第 30 單元

授課主題：子宮附件病變及卵巢癌之診斷及處理原則 Management of Adnexal Mass and Ovarian Cancer

教師：賴瓊慧

授課時間：100 分鐘

- A. Definition of adnexa
- B. Clinical assessment and differential diagnosis of adnexal mass
- C. Benign adnexal lesions
- D. Ovarian cancer epidemiology
- E. Histologic diagnosis of ovarian cancer
- F. Staging of ovarian cancer
- G. Prognostic factors
- H. Cytoreductive surgery
- I. Role of Chemotherapy
- J. Role of other local therapy
- K. Second look laparotomy/laparoscopy
- L. Intraperitoneal chemotherapy
- M. Germ cell malignancy

第 31 單元

授課主題：Control ovarian hyperstimulation (COH) in IVF

教師：宋永魁

授課時間：100 分鐘

Power point：40 張

學習目標：學習配子分化、卵巢濾泡發育、性激素(gonadotrophin)之使用，黃體支持。

大綱：

- A. Gametogenesis
- B. Folliculogenesis; Two hormone two cell theory
- C. Superovulation induction
- D. Ovulation induction protocol
 - 1. Long protocol
 - 2. Short protocol
 - 3. GnRH antagonist protocol
 - 4. Others
- E. Ovarian hyperstimulation syndrome

第 32 單元

授課主題：Pelvic Inflammatory Disease and Sexually Transmitted Diseases

教師：陳光昭

授課時間：100 分鐘

PowerPoint：92 張

學習目標：學習骨盆腔炎症及各種性病（包括尖頭濕疣、皰疹、披衣菌、淋病、梅毒及愛滋病）之公共衛生學、臨床症狀、診斷及治療方式。

大綱：。

- A. Pelvic Inflammatory Disease
 - 1. Definition
 - 2. Epidemiology
 - 3. Cause

4. Risk factors
5. Diagnostic criteria
6. Differential diagnosis
7. Medical treatments
8. Criteria for surgical intervention

B. Sexually Transmitted Diseases

1. Condyloma Acuminata
2. Herpes Simplex
3. Neisseria Gonorrhoeae
4. Chlamydia Trachomatis
5. Syphilis
6. Clinical manifestations
7. Treatments

第 33 單元

授課主題：Laparoscopic Surgery and Müllerian Anomalies

教師：李奇龍

授課時間：100 分鐘

PowerPoint：44 張

學習目標：學習如何安全的執行內視鏡手術，並學習先天性生殖道異常的胚胎發生、分類、診斷與當前治療的方法。

大綱：

- A. History of endoscopic surgery
- B. Indication and contraindication of endoscopy
- C. Safety entry of laparoscopic surgery
 1. Anatomy of abdominal wall
 2. The choice of laparoscopic portal sites
 3. Operative Technique
- D. Congenital uterine anomalies
 1. Embryological process of G-U Tract
 2. Classification of Müllerian Anomalies
 3. Diagnosis of Müllerian Anomalies
 4. The method of intervention

第 34 單元

授課主題：Assisted reproductive techniques (Intrauterine insemination [IUI], in vitro fertilization [IVF], intracytoplasmic sperm injection [ICSI], assisted hatching, embryo or blastocyst transfer)

教師：黃泓淵

授課時間：100 分鐘

PowerPoint：86 張

學習目標：學習生殖內分泌、不孕症之診斷與定義、控制排卵人工協助生殖之臨床、治療及預後。

大綱：

- A. Normal reproduction and menstrual cycle
- B. Mechanism of folliculogenesis and implantation
- C. Control ovarian hyperstimulation
- D. Intrauterine insemination
- E. Assisted reproductive techniques
 - 1. IVF-ET
 - 2. Cryopreservation
 - 3. Optimization of implantation
 - 4. Preimplantation genetic diagnosis
 - 5. Gamete donation
- F. Risk and outcome of assisted reproductive techniques
- G. New trend of assisted reproductive techniques

第 35 單元

授課主題：Hysteroscopy

教師：王錦榮

授課時間：100 分鐘

PowerPoint：50 張

學習目標：學習子宮鏡之發展沿革、器械設備、使用適應症、子宮擴腔介質之介紹及選擇，子宮鏡手術之可能合併症及預防。

大綱：

- A. History of hysteroscopy
- B. Indications of diagnostic and operative hysteroscopies
- C. Equipments of diagnostic and operative hysteroscopies
- D. Patient preparations:
- E. Uterine distension media
- F. Complications of hysteroscopy
- G. Prevention of fluid overload

第 36 單元

授課主題：Investigation of pelvic floor, overactive bladder

教師：梁景忠

授課時間：100 分鐘

PowerPoint：50 張

學習目標：

- A. 介紹婦女正常的骨盆，以及各種常用的檢查項目，包括：理學檢查，尿動力學，以及影像學檢查。讓上完課程的學員不僅對骨盆臟器的解剖學能清楚瞭解，同時能學習如何對尿失禁與骨盆臟器脫垂下正確的診斷
- B. 介紹發生率很高的過動性膀胱(overactive bladder)。讓上完課程的學員能清楚瞭解過動性膀胱的定義，病因，對生活的影響，以及處理的各種方式，包括：行為治療，藥物治療，物理治療，以及手術治療。

大綱：

- A. Investigation of the pelvic floor
 - 1. Pelvic floor anatomy
 - 2. Evaluation of urinary incontinence
 - (1). History and physical examination
 - (2). Urine analysis ± urine culture
 - (3). Voiding diary
 - (4). Pad test
 - (5). Urodynamic study
 - (6). X-ray or ultrasound
 - 3. Clinical tests to evaluate the bladder neck
 - (1). Q-tip test
 - (2). Lateral bead chain cystourethrography
 - (3). Video cystourethrography
 - (4). Real-time ultrasonography
 - 4. Investigation of pelvic organ prolapse
- B. Overview of the overactive bladder
 - 1. Terminology
 - 2. Prevalence
 - 3. Impaired health-related quality of life
 - 4. Etiology
 - 5. Management
 - 6. Behavior therapy and pharmacologic treatment
 - 7. Electrical stimulation
 - 8. Neuromodulation
 - 9. Surgery

第 37 單元

授課主題：Disorders of the pelvic floor & their management (USI)

教師：王 誠

授課時間：50 分

PowerPoint: 100 張

學習目標：瞭解婦女骨盆底肌功能異常所造成生殖泌尿道疾病之致病機轉與治療

大綱：

- A. 骨盆之構造與解剖學
- B. 骨盆腔內生殖泌尿道之正常支撐與固定
- C. 生殖泌尿道疾病(包括脫垂)之致病機轉
- D. 生殖泌尿道脫垂之基礎研究
- E. 生殖泌尿道脫垂之手術治療
- F. 應力性尿失禁之致病機轉與治療
- G. 合成網片或懸吊帶植入人體之併發症研究

課程名稱：眼科學(Ophthalmology)

學年：97

學期：2

年級：6

課程大綱

教科書：

- 1 –Kanski,
Clinical Ophthalmology,
6th edition, Butterworth, 2007
- 2 –Daniel G. Vaughan & Taylor Asbury,
General Ophthalmology,
16th edition, Appleton & Lange, 2004
- 3 –Krachmer JH,MD; Mannis MJ,MD;
Holland EJ,MD
Cornea 2nd edition,Mosby, 2005
- 4 –Robert Ritch
The glaucomas 2nd
Mosby, 1996
- 5 –Baltimore
Chandler and Grant's glaucoma 4th
William's and Wilkins Company, 1997

參考書：

- 1 –American Academy of Ophthalmology,
Basic and Clinical Science Course,
2006—2007
- 2 –Thomas D. Duane, Willian S. Tasman,
Edward A Jaeger,
Duanes Clinical Ophthalmology,
Lippincott Company, 2007 (Vol.1-6)
- 3 –Daniel M. Albert & Frederick A.
Jacobiec,
Principles and Practice of Ophthalmology
(Vol. 1-6),2nd edition, Saunders, 2001
- 4 –H.D. Hoskins
Becker-Shaffer's Diagnosis and therapy
of the Glaucoma
Mosby

整體教學目標：

- 1.眼科門診常見疾病臨床見習：屈光異常、斜視、白內障、青光眼、眼部整型、眼角膜、視網膜及視神經疾病。
2. 眼科儀器的認識：細隙燈、眼底鏡、眼壓計、隅角鏡、電腦驗光、角膜弧度儀、視野計、超音波、鐳射。

3. 眼科一般檢查：視力檢查、眼壓測量。
4. 眼底鏡之實際操作、認識眼底病變。
5. 門診住院病患病史，病歷之問診記載。
6. 眼科一般手術治療：開刀房見習。

教學方法：

1. 以小組上課討論方式就各次專科的專題、實際的教案，讓學生與臨床教師研討，學習各專題與解決問題的能力，及培養和同儕間良性互動的關係。
2. 經由參與教學門診，培養學生思考，推理並做鑑別診斷的能力。
3. 每週的病房巡視、門診及手術室見習，個案教學後，讓學生透過寫報告的方式，來深入瞭解病患的病情及治療，也增加了對病患之人性化關懷。
4. 利用各種特殊檢查的操作及結果、判讀等的實際示範課程讓學生的推理更延伸，更準確。
5. 藉由觀察手術讓學生的學習更具體化。
6. 輔以系統性演講，以確保其知識深度。

中文課程簡介：

眼科學見習採用小組教學，學生被分成 10 個人左右的小組相互合作學習，以練習人際關係及互動，而整個課程就設計成以專題及臨床問題為導向，讓學生與臨床教師以互動學習小組研討的方式進行。在 3 週之中，每週每天設計不同之主題，包括屈光異常、斜視、白內障、青光眼、眼部整型、眼角膜、視網膜及視神

經疾病各專題，主題內容以常見疾病為優先考量，每天安排臨床病理討論會，由各次專科臨床教師主持，小組互動式教學確保教學品質與學習成效。再輔以適切之系列演講。本課程另一特點就是臨床教學非常的實際，其中包括門診教學（OPD teaching）、手術觀察、特別專題、每月一次的值班，並讓學生隨同住

院醫師參與住院病患及急診病患診視，同時有學習護照以確保學習內容。在每週一例見習報告的要求之下，學生主動診視病人，寫病例報告後再由臨床教師確認學習成效。成績的評估除了系列性演講之外，學生在臨床病理討論會的表現、值班狀況及病例報告的討論深度，也成為評分的要項。

英文課程簡介：

The course of ophthalmology includes lectures and clinical rotation in a 3-week period. Students are grouped into 10 during each rotation. The main aim of this course is to teach students the knowledge about ophthalmology as well as the attitude of initiative learning. The 3-week course covers topics in cornea, retina, refraction, strabismus, cataract, glaucoma, optic neurology and oculoplasty.

Students also attend each week's morning meeting and clinical pathology conference. The topics of clinical pathology conference are ophthalmologic disease, taught by our clinical staffs. Small group gives better learning quality and learning efficacy. To ensure the efficacy of clinical conference and to pass the medical license board, background knowledge is given in organized lectures. Outpatient rotations and observation of surgery are arranged in a basically one-on-one setting. Clinical teachings and care of admitted patient allow students to approach patients and learn more actively. One case presentation will be required each week during their rotation at our department. At the end of the

3 week rotation, each student is required to take an examination. The evaluation of each student includes their performance during the rotation, presentation of case reports, examination, and on-duty responsibility.

成績考核：

筆試

教學進度

項次	上課日期/ 星期	開始/結 束 節次	時 數	授課教 師	教學進度
1	2009-01-21 (三)	1 - 1	1	醫學系 眼科 林信瓊	<u>Infection disease of Cornea</u>
2	2009-01-21 (三)	2 - 2	1	解剖科 孫銘輝	<u>Basic Science in Ophthalmology</u>
3	2009-01-21 (三)	3 - 3	1	中醫學 系五官 科 馬惠康	<u>Ocular Surface Disorder and Management</u>
4	2009-01-21 (三)	4 - 4	1	醫學系 眼科 蕭靜熹	<u>Corneal Dystrophy and Degeneration</u> <u>Immune-Mediated Disorders of Cornea</u>
5	2009-01-21 (三)	5 - 5	1	醫學系 眼科 李建興	<u>Ocular Rehabilitation</u>
6	2009-01-21 (三)	6 - 6	1	醫學系 眼科 高玲玉	<u>Neuro-Ophthalmology</u>
7	2009-01-21 (四)	7 - 7	1	醫學系 眼科 陳冠任	<u>Lens and Cataract</u>
8	2009-01-22 (四)	1 - 1	1	醫學系 楊克仁	<u>Retina and Vitreous (II)</u>
9	2009-01-22 (四)	2 - 2	1	醫學系 陳墩祿	<u>Retina and Vitreous (I)</u>
10	2009-01-22 (四)	4 - 4	1	醫學系 眼科 張雪麗	<u>Glaucoma (I)</u>
11	2009-01-22 (四)	5 - 5	1	醫學系 眼科 吳淑雅	<u>Ocular medication and laser treatment</u>

12	2009-01-22 (四)	6 - 6	1	醫學系 沈素琴	<u>Glaucoma (II)</u>
13	2009-01-22 (四)	7 - 7	1	醫學系 眼科 吳為吉	<u>Retina and Vitreous (III)</u>
14	2009-01-23 (五)	2 - 2	1	醫學系 眼科 馬俐	<u>Orbit, Eyelids, and Lacrimal System</u>
15	2009-01-23 (五)	3 - 3	1	醫學系 賴慧群	<u>Pediatric Ophthalmology</u>
16	2009-01-23 (五)	4 - 4	1	醫學系 眼科 林耕國	<u>Contact Lens, Spectacle Lens and Refraction</u>
17	2009-01-23 (五)	5 - 6	2	醫學系 眼科 林耕國	Final Examination

課程名稱：眼科學(Ophthalmology)

第 1 單元

授課主題：Infectious Disease of Cornea

教師：林信瓊

授課時間：50 分鐘

學習目標：角膜潰瘍之致病機轉、臨床診斷、鑑別診斷治療及預後。

大綱：

- A. Bacterial keratitis
- B. Contact lens use
- C. Ocular surface pathologies
- D. Pathogenesis
- E. Clinical examination
- F. Specific bacterial ulcers
- G. Laboratory investigation
- H. Specific therapeutic agents
- I. Adjunctive therapy
- J. Nontuberculous mycobacterial keratitis**
- K. NTM keratitis clinical feature
- L. NTM keratitis
- M. Herpes simplex keratitis
- N. HSK
- O. Herpes Zoster keratitis
- P. Fungal keratitis
- Q. Acanthamoeba keratitis

第 2 單元

授課主題：Basic Science in Ophthalmology

教師：孫銘輝

授課時間：50 分鐘

學習目標：學習眼球之基本結構及眼球之基本生理功能。

大綱：

A. Anatomy of orbit

B. Structure of the eye

1. The cornea
2. The sclera
3. Limbus and aqueous outflow pathway
4. The iris
5. The ciliary body
6. The lens
7. The vitreous
8. Retina and retinal pigment epithelium
9. The choroid
10. Optic nerve

C. Retinal Neurochemistry

第 3 單元

授課主題：Diagnosis and Management of Ocular Surface Disorders

教師：馬惠康

授課時間：50 分鐘

Powerpoint：80 張

學習目標：學習眼角膜上皮細胞維持恆定之機轉、角膜上皮幹細胞缺乏之病理生理及其處理、乾眼症與眼瞼及結膜疾病之診治。

A. Homeostasis of ocular surface epithelia

1. Localization of corneal epithelial stem cells
2. Characteristics of limbal epithelial stem cells
3. Identification of limbal epithelial stem cells

B. Limbal stem cell disorders and management

1. Clinical signs of limbal stem cell deficiency
2. General strategies of ocular surface reconstruction
3. Use of amniotic membrane for ocular surface reconstruction
4. Limbal stem cell transplantation
5. Cultivated corneal epithelial and oral mucosal epithelial stem cell transplantation

C. Disorder of tear film production

1. Neuro-anatomical regulation of tear film production
2. Diagnosis of dry eye
3. Treatment of dry eye

D. Disorders of the lid and conjunctiva

1. Blepharitis
2. Meibomian gland dysfunction

3. Microbial infections of the lid

第 4 單元

授課主題：Corneal dystrophy, corneal degeneration and immune-mediated disorder of cornea

教師：蕭靜熹

授課時間：50 分鐘

Powerpoint：55 張

學習目標：學習角膜失養症、角膜退化、角膜免疫性疾病診斷、治療及預後。

大綱：

A. Corneal dystrophy

1. Anterior dystrophy
2. Stromal dystrophy
3. Endothelial dystrophy

B. Ectatic disorder

1. Keratoconus
2. Pellucid marginal degeneration
3. Keratoglobulus

C. Corneal degeneration

D. Immune-mediated disorder of cornea

1. Thygeson's superficial punctate keratitis
2. Interstitial keratitis
3. Marginal corneal infiltrate associated with blepharitis
4. Peripheral ulcerative keratitis associated with systemic immune diseases
5. Mooren ulcer

第 5 單元

授課主題：Ocular Rehabilitation

教師：李建興

授課時間：50 分鐘

PowerPoint：56 張

學習目標：瞭解視障相關的身心問題，學習復健的法則、輔具介紹、視障預防、及展望等。

大綱：

A. Epidemiology, magnitude, and cause of visual impairment

B. Natural history of low vision

C. Principles and goals of low vision rehabilitation

D. Optical low vision aids

1. Magnifiers: hand-held, stand
2. Spectacles
3. Telescopes: hand-held, bioptics

E. Non-optical aids

1. Large-print material
2. CCTV

F. Skills for efficient use of residual vision and aids

1. Scanning
2. Tracing
3. Spotting
4. Tracking

G. Preventive ophthalmology

H. Bionic (Artificial) vision

第 6 單元

授課主題：Neuro-Ophthalmology

教師：高玲玉

授課時間：50 分鐘

學習目標：學習視神經通路之基本結構與視野缺損的相關性。

大綱：與眼球運動相關的第 III、IV、VI 對腦神經其功能及麻痺所引起的臨床表現。

第 7 單位

授課主題：Lens and Cataract

教師：陳冠任

授課時間：50 分鐘

學習目標：學習白內障之分類診斷，臨床意涵、治療及預後。

大綱：

A. Anatomy and Embryology

B. Pathology

1. Aging changes
2. Trauma
3. others

C. Evaluation and Management of Cataract

1. Evaluation
2. Cataract surgery

D. Complications of Cataract Surgery

1. Intraoperative complication
2. Postoperative complication

第 8 單元

授課主題：RETINA AND VITREOUS (II)

教師：楊克仁

授課時間：50 分鐘

Powerpoint：80 張

學習目標：學習視網膜玻璃體解剖構造、臨床檢查及黃斑部病變、遺傳性疾患。

大綱：

A. Anatomy of the retina and vitreous

B. Clinical examination, diagnostic techniques, and laser therapy

C. Macular disorders

1. Age-related macular degeneration
2. Central serous chorioretinopathy
3. Macular hole
4. Myopic degeneration

D. Hereditary chorioretinal disorders

1. Albinism
2. Retinitis pigmentosa
3. Best's disease
4. Cone dystrophy
5. Leber's congenital amaurosis
6. Stargardt disease
7. Choroideremia
8. Congenital retinoschisis

第 9 單元

授課主題：Retina (I)

教師：陳墩祿

授課時間：50 分鐘

學習目標與大綱：

- A. Retinal Detachment and Vitreous Disorders (powerpoint：文字描述 10 張；彩色圖片 60 張)
- B. Diabetic Retinopathy (powerpoint：文字描述 3 張；彩色圖片 25 張)
 1. Back ground diabetic retinopathy
 2. pre-proliferative diabetic retinopathy
 3. proliferative diabetic retinopathy

第 10 單元

授課主題：Diagnosis of glaucoma

教師：張雪麗

授課時間：50 分鐘

Powerpoint：40 張

學習目標：學習青光眼之檢查及診斷，不同類型青光眼之致病機轉及鑑別診斷
大綱：

- A. What is glaucoma
 1. IOP measurement
 2. Optic disc change in glaucoma
 3. Visual field change
- B. Classifications of glaucoma
 1. Angle-closure glaucoma
 2. Open angle glaucoma
 3. Congenital glaucoma
 4. Secondary glaucoma

第 11 單元

授課主題: Ocular medication and Laser treatment

教師: 吳淑雅

授課時間: 50 分鐘

學習目標: 學習眼科藥物作用機制, 眼科藥物種類; 雷射基本原理, 與雷射在眼科的應用。

大綱:

A. Pharmacokinetics (藥物動力學)

B. Eyedrops:

1. Drug concentration and solubility
2. Viscosity
3. Lipid solubility
4. Surfactants
5. Reflex tearing

C. Ointment, periocular injection, intraocular injection, Sustained-Release Oral Preparation, systemic therapy

D. Ocular Pharmacotherapeutics 眼科藥物治療

1. Autonomic drugs
2. Anesthetics
3. Antimicrobials
4. Antiinflammatory agents
5. Carbonic Anhydrase inhibitors

E. 雷射基本原理

F. 雷射在眼科的應用

1. Laser in refractive surgery
2. Laser in management of glaucoma
3. Laser for capsulectomy after cataract surgery
4. Laser in management of retinal disease

第 12 單元

授課主題: Treatment of Glaucoma

教師: 沈素琴

授課時間: 50 分鐘

Powerpoint: 50 張

學習目標: 介紹青光眼的分類及各不同類別青光眼疾病的治療, 達到了解青光眼藥物、雷射及手術之適用時機與治療原則。

大綱:

A. Classification of glaucoma

1. Angle closure glaucoma
 - Primary angle closure glaucoma
 - Secondary angle closure glaucoma
2. Open angle glaucoma
 - Primary open angle glaucoma
 - Secondary open angle glaucoma

- 3. Infantile glaucoma
 - (including Developmental glaucoma)
- B. IOP control & Glaucomatous optic neuropathy
 - What is the target Pressure?
- C. Anti-glaucomatous medication
 - beta- blockers
 - alpha-agonists
 - miotics
 - prostaglandins
 - carbonic anhydrase inhibitors
 - osmotic drugs
- D. Laser treatment
 - 1. laser iridectomy
 - 2. laser trabeculopasty
 - 3. transscleral cyclophthocoagulation
- E. Incisional surgery
 - 1. trabeculectomy
 - 2. Ahmed valve implantation
 - 3. trabeculotomy

第 13 單元

授課主題：Retina and Vitreous III

教師：吳為吉

授課時間：50 分鐘

Powerpoint：90 張

學習目標：學習常見視網膜血管疾病、發炎及感染，眼球外傷及眼內腫瘤的臨床表現及治療。

大綱：

- A. Retinal vascular disorders
 - Presentations, treatment, and prognosis
- B. Retinal inflammatory and infectious disorders
 - Presentations, treatment, and prognosis
- C. Traumatic disorders
- D. Ocular tumors

第 14 單元

授課主題：Orbit, Eyelids, and Lacrimal System

教師：馬俐

授課時間：50 分鐘

學習目標：讓學生對於眼窩、淚器及眼瞼的解剖構造及常見疾病的治療有基本的瞭解。

大綱：

- A. 眼窩的解剖構造，常見疾病及範例，影像學判讀模式。
- B. 淚器的解剖構造，常見疾病及治療方法。
- C. 眼瞼的解剖構造，常見疾病及治療方法。

第 15 單元

授課主題：Pediatric Ophthalmology

教師：賴慧群

授課時間：50 分鐘

Powerpoint：44 張

學習目標(主旨)：了解 Amblyopia 弱視，strabismus 斜視，小兒眼睛常見的疾病。

大綱：

- A. Amblyopia
- B. Strabismic amblyopia
- C. Anisometropic amblyopia
- D. Bilateral high refractive error
- E. Visual deprivation amblyopia
- F. Early detection and treatment

第 16 單元

授課主題：Contact Lens, Spectacle Lens and Refraction

教師：林耕國

授課時間：50 分鐘

Powerpoint：50 張

學習目標：學習隱形眼鏡、框架眼鏡及屈光學。

大綱：

A. Contact Lens

- 1. Hard contact lens:
 - 7. conventional hard contact lens
 - 8. rigid gas permeable contact lens
 - 9. hard contact lens fitting
- 2. Orthokeratology:
- 3. Soft contact lens
 - (1). hydrogel soft contact lens
 - (2). silicone hydrogel soft contact lens
 - (3). tinted soft contact lens
 - (4). soft contact lens fitting

B. Spectacle Lens

- 1. Lens materials:
 - (1). crown glass
 - (2). plastic lens
 - (3). polycarbonate lens
- 2. Refraction:
 - (1). refractive index
 - (2). reflection
 - (3). anti-reflective coating
- 3. Sun-protective lens:

(1).ultraviolet and visible light

(2).sunglasses

(3).photochromic lens

(4).polaroid lens

4. Special lens:

(1). aspheric lens

(2). bifocal and multifocal lens

課程名稱：麻醉科學(Anesthesiology)

學年：97

學期：2

年級：6

課程大綱

教科書：

Morgan GE Jr. and Mikhail MS: Clinical Anesthesiology. 4th ed. 2005

參考書：

Miller RD: Anesthesia. 6th ed. Churchill Livingstone, 2005

整體教學目標：

整體瞭解麻醉基礎學理，輔以相關臨床病例討論。

教學方法：

麻醉學採用大班教學及臨床實際操作方式授課。

課程結束前每人需繳交一篇報告。

中文課程簡介：

共排 9 堂大班授課，內容以麻醉相關基礎理論為主，老師主要由資深講師或助理教授以上負責授課。

英文課程簡介：

The curriculum of clerkship consists of 9 lectures. Each lecture takes 2 hours (see Table). The objective of this curriculum is to get better understand of the basic principle about anesthesia. Faculty involved on teaching is senior anesthesiologist or at least assistant professor

成績考核：

筆試：100 %。

教學進度

項次	上課日期/ 星期	開始/結 束 節次	時 數	授課教 師	教學進度
1	2009-01-05 (一)	1 - 2	2	醫學系 麻醉科 鍾志豪	<u>Airway management</u>
2	2009-01-05 (一)	3 - 4	2	醫學系 麻醉科 何綺月	<u>Monitoring</u>
3	2009-01-05 (一)	5 - 6	2	醫學系 李慧玲	<u>Regional anesthesia</u>
4	2009-01-05 (一)	7 - 8	2	醫學系 楊靖宇	<u>Inhalation anesthetics</u>
5	2009-01-05	9 - 10	2	醫學系	<u>Intravenous anesthetics</u>

	(一)			麻醉科 余黃平	
6	2009-01-06 (二)	1 - 2	2	醫學系 麻醉科 李漢倫	<u>Pain management</u>
7	2009-01-06 (二)	3 - 4	2	醫學系 麻醉科 戴元基	<u>Pre-operative preparation</u>
8	2009-01-06 (二)	5 - 6	2	醫學系 麻醉科 劉錦棠	<u>Muscle relaxants</u>
9	2009-01-06 (二)	7 - 8	2	醫學系 麻醉科 黃潔文	<u>Local anesthetics</u>

課程名稱：麻醉科學(Anesthesiology)

第 1 單元

授課主題：Airway management

教師：鍾志豪

授課時間：90 分鐘

Powerpoint：約 40 張

學習目標：airway management 的歷史進展，困難度評估及處理要點。並瞭解氣道處理時人員安全性的重要。

大綱：

- A. 氣道處理的危險因子
- B. 氣道處理傳統器械發展介紹
- C. 氣道處理現有新品介紹及使用說明

第 2 單元

授課主題：Anesthetic Monitoring

教師：何綺月

授課時間：90 分鐘

Powerpoint：62 張

學習目標：The process by which anesthesiologists recognize and evaluate potential physiologic problems in a timely manner.

大綱：

- A. Standards for basic anesthetic monitoring
- B. Monitoring of expired gases: multiple expired gas analysis, capnography
- C. Oxygenation monitoring: pulse oximetry
- D. Blood Pressure Monitoring: invasive & indirect
- E. Central venous & pulmonary artery monitoring
- F. Transesophageal Echocardiography
- G. Monitoring Neurologic function: EEG, BIS, evoked potential monitoring

H. Temperature monitoring

第 3 單元

授課主題：Regional Anesthesia

教師：李慧玲

授課時間：90 分鐘

Powerpoint：34 張

學習目標：學習半身麻醉的生理機轉、適應症、執行方式、併發症的診斷與處理。

大綱：

- A. Anatomy of spine
- B. Physiological response to central blockade
 - 10. somatic blockade
 - 11. visceral blockade
- C. Spinal anesthesia
- D. Contraindications to central blockade
- E. Epidural anesthesia
- F. Post-dural puncture headache
- G. Combined spinal-epidural anesthesia

第 4 單元

授課主題：Inhalational anesthetics

教師：楊靖宇

授課時間：90 分鐘

Powerpoint：40 張

學習目標：學習吸入性麻醉劑發展史與在體內的分布，吸入性麻醉劑藥理作用的機轉，吸入性麻醉劑生理學作用，吸入性麻醉劑的毒性與副作用。

大綱：

- A. History of inhalational anesthetics
- B. Uptake and distribution of inhalational anesthetics:
 - 1. anesthetic uptake in blood, tissue and brain
 - 2. anesthetic tissue distribution and redistribution.
 - 3. Onset time of inhalational anesthetics
- C. Physiology of inhalational anesthetics
 - 1. cardiac effect of inhalational anesthetics
 - 2. respiratory effect of inhalational anesthetics
 - 3. gastrointestinal effect of inhalational anesthetics
- D. Pharmacology of inhalational anesthetics
- E. Toxicity and side effects of inhalational anesthetics
 - 7. hepatic toxicity
 - 8. renal toxicity

第 5 單元

授課主題：Intravenous Anesthetics

教師：余黃平

授課時間：90 分鐘

Powerpoint：34 張

學習目標：認識全身麻醉中使用的注射性麻醉劑，並且簡介其各種不同藥理性差異。

大綱：

A. Intravenous anesthetics

1. Barbiturates
2. Non-barbiturates Intravenous Anesthetics
3. Intravenous Opioid Anesthetics

B. Barbiturates

1. Basic Pharmacology
 - (1) Chemistry and Formulation
 - (2) Structure-Activity Relationships
 - (3) Mechanism of Action
 - (4) Pharmacokinetics/Pharmacodynamics
2. Clinical Pharmacology and Uses
 - (1) Pharmacokinetic Bases of Altered Dose Requirement
 - (2) Induction of General Anesthesia
 - (3) Central Nervous System Effects
 - (4) Respiratory Effects

C. Nonbarbiturate Intravenous Anesthetics

1. Benzodiazepines
 - (1) Physicochemical Characteristics
 - (2) Pharmacokinetics
 - (3) Pharmacology
 - (4) Effects on the Respiratory System
 - (5) Induction and Maintenance of Anesthesia
2. Ketamine
 - (1) Physicochemical Characteristics
 - (2) Pharmacology
 - (3) Side Effects and Contraindications
3. Etomidate
 - (1) Physicochemical Characteristics
 - (2) Clinical Uses
4. Propofol
 - (1) Physicochemical Characteristics
 - (2) Pharmacokinetics
 - (3) Clinical Uses
 - (4) Side Effects and Contraindications

D. Intravenous Opioid Anesthetics

1. Nausea and Vomiting
2. Clinical Uses

第 6 單元

授課主題：Pain management

教師：李漢倫

授課時間：90 分鐘

Powerpoint：63 張

學習目標：讓學生了解疼痛機轉及疼痛對人體之影響；向學生介紹各種疼痛之治療方法。

大綱：

- A. 疼痛機轉
- B. 疼痛分類及診斷
- C. 手術後疼痛控制
- D. 癌症疼痛控制
- E. 慢性疼痛控制

第 7 單元

授課主題：Pre-Operative Preparation

教師：戴元基

授課時間：90 分鐘

Powerpoint：44 張

學習目標：學習手術前如何評估各種病人的麻醉風險與麻醉準備。

大綱：

- A. Risk of Anesthesia—issues related to study design, mortality related to anesthesia, risks related to the patient, special patient groups, risk directly related to the anesthetic drug, risk related to surgery.
- B. Preoperative Evaluation—The changing nature of preoperative evaluation, uncovering patient factors that increase the risk of anesthesia, detecting disease, preoperative and preprocedure testing, implementing accuracy and efficiency in preoperative evaluation, information management in preoperative and preprocedure evaluation and outcome enhancement.
- C. Anesthetic implications of concurrent diseases.

第 8 單元

授課主題：肌肉鬆弛劑

教師：劉錦棠

授課時間：90 分鐘

Powerpoint：64 張

學習目標：幫助學生瞭解有關肌肉鬆弛劑之基本學識使其未來在應用肌肉鬆弛劑時了解其使用方法及副作用及其使用原則。

大綱：

- A. 肌肉鬆弛劑之定義
- B. 肌肉鬆弛劑之分類
- C. 肌肉鬆弛劑之結構
- D. 影響肌肉鬆弛劑作用之因素
- E. 肌肉鬆弛劑之作用機轉

- F. 肌肉鬆弛劑之使用時機和注意事項
- G. 肌肉鬆弛劑之代謝和特性
- H. 肌肉鬆弛劑之副作用
- I. 肌肉鬆弛劑之副作用之處理原則和注意事項

第 9 單元

授課主題：Local anesthetic

教師：黃潔文

授課時間：90 分鐘

Powerpoint：70 張

學習目標：認識臨床使用局部麻醉藥之適應症及給予方法。診斷及處理局部麻醉藥引起的中毒合併症。

大綱：

- A. 局部麻醉藥的化學結構。
- B. 局部麻醉藥的藥理作用，與化學結構的相關性。
- C. 局部麻醉藥對身體各系統之影響。
- D. 如何選擇局部麻醉藥來進行各種區域麻醉及神經阻斷術。
- E. 影響局部麻醉藥作用的因素及添加物之效果。
- F. 局部麻醉藥引起的中毒或過敏現象。
- G. 局部麻醉藥引起的中毒或合併症治療方法。

課程名稱：醫學倫理學(Medical Ethics)

學年：97

學期：2

年級：6

課程大綱

教科書：無

參考書：

1. 醫學倫理小班教學——案例與討論題綱（台北：財團法人醫院評鑑暨醫療品質策進會，2006）
2. 臨床倫理委員會常見問答集 Q&A（行政院衛生署，2005）
3. 知情同意常見問答集（國家衛生研究院論壇生命暨醫療倫理委員會出版，2004）
4. 臨床生命倫理學 加拿大醫學會授權（蔡甫昌編譯，Peter A. Singer 編著，台北：財團法人醫院評鑑暨醫療品質策進會，2003）
5. 醫院裡的哲學家（編者：Richard M. Zaner. 譯者：譚家瑜 出版者：心靈工作坊文化事業有限公司 出版日期：中華民國 90 年 11 月）
6. 醫學倫理導論 李明濱/戴正德 /教育部 2006

整體教學目標：

為幫助醫學生「了解倫理議題之所在，運用相關知識分析問題做出醫療決策，以合乎倫理的方式進行醫療行為，並採取必要步驟以改善現況」，將開立醫學倫理課程協助醫學生瞭解倫理困局，維護病人權益，提升醫療品質及促進醫病關係，並成為醫學生未來行醫之專業態度。

教學方法：

- A. 演講會：醫學倫理基本概念、醫學倫理之歷史與文化觀、告知、同意與決定能力、孕婦與胎兒的道德兩難、研究倫理學、器官移植與資源分配、後基因時代倫理學、精神醫學倫理學、醫師與藥商關係兼談醫師懲戒制度、臨終照護倫理
- B. 討論會：病人權利義務、兒童參與醫療決定、醫學研究倫理
- C. 臨床案例討論會：器官移植倫理案例、資源分配倫理案例、臨終照護倫理案例、重症照護倫理案例

中文課程簡介：

生物醫療科技進展、醫療保險體制變遷、醫療人權意識高漲及醫療商業化，帶來新的心理、社會、倫理及法律衝擊。醫療情境與臨床決策充滿有關道德判斷之抉擇與倫理兩難。為幫助醫學生「了解倫理議題之所在，運用相關知識分析問題做出醫療決策，以合乎倫理的方式進行醫療行為，並採取必要步驟以改善現況」，將開立醫學倫理課程協助醫學生瞭解倫理困局，維護病人權益，提升醫療品質及促進醫病關係，並成為醫學生未來行醫之專業態度。

本課程以病人倫理問題導向為教授原則，包括：討論會、演講、辯論會等方式來呈現整個課程，其中包括：醫學倫理基本概念、醫學倫理之歷史與文化觀、告知、同意與決定能力、兒童參與醫療決定、病人權利義務、孕婦與胎兒的道德兩難、研究倫理學、器官移植與資源分配、後基因時代倫理學、精神醫學倫理學、醫師與藥商關係兼談醫師懲戒制度、臨終照護倫理等，企望能讓學生有完整而基本之醫學倫理學訓練及概念。

英文課程簡介：

Medical care is centered on human being, with rapid progress in technology; medical education gradually puts emphasis toward continuation of scientific knowledge, diagnosis and treatment of diseases, and technical training. However, issues of medical humanity are often ignored. The course is designed to recognize the

importance of successful physician-patient relationship, thus medical students will incorporate these principles when they are embarking on clinical practices.

The course is proceeding with versatile and interesting manner. The entire course is presented through many lectures, conferences, debates, discussion, facing patients, movie viewing with its commentary discussion, and patient, doctor role-playing (in which students get the opportunities to experience being patients.) In addition, the differences of physician-patient relationships among various departments, patient's right, post-SARS era relationship, physician's communication skills, medical lawsuits, communication skills among the other professional settings, and the Hippocratic Oath are also incorporated into this course.

As our ultimate goal, we wish students to learn these complete principles of complicated relationships between physicians and patients. This course will hopefully help the medical students to build an integrated and good conception with the caring of patients in their entire medical career.

成績考核：

1. 全班分成八組，設小組長一名負責小組協調整合，每次上課各組必需提出一份心得報告，每組組員為共同体，強調團隊合作，依報告內容來評核
2. 期末繳交一份臨床醫學倫理案例報告;包括: 1. 場景 scene—(請說明發生的狀況與病患簡史) 、2. 議題 issue—(請闡述本事件引發之議題 a. Medical Indication. b. Patient Preferences. c. Quality of Life Considerations. d. Contextual Features) 、3. 查證與討論 discussion—(請敘述事件發生後您所做的查詢及討論結果,包括: Ethic principles, Law regulations) 、4. 計畫做法(plan)—此事件最後決定的做法
3. 每堂設隨堂思考題，供出席率、參與度及考核參考 (缺席四次，重修本課程)
4. 臨床倫理案例報告與研討會：各組代表,每組 15 分鐘 (12 分鐘報告、3 分鐘討論)
5. 繳交期末問卷一份

教學進度

項次	上課日期/ 星期	開始/結 束 節次	時 數	授課教 師	教學進度
1	2009-01-07 (三)	9 - 9	1	醫學系 方基存	醫學倫理課程簡介與基本概念
2	2009-01-14 (三)	9 - 9	1	醫學系 外科 林萍章	告知、同意與決定能力倫理
3	2009-01-21 (三)	9 - 9	1	醫學系 精神科 陳景彥	醫學倫理之發展史與文化觀
4	2009-01-28 (三)	9 - 9	1	醫學系 精神科 陳景彥	病人權利義務討論會 (分組討論)

5	2009-01-28 (三)	9 - 9	1	醫學系 方基存	病人權利義務討論會（分組討論）
6	2009-02-11 (三)	9 - 9	1	醫學系 小兒科 王輝雄	兒童參與醫療決定
7	2009-02-18 (三)	9 - 9	1	醫學系 詹耀龍	孕婦與胎兒的道德兩難
8	2009-02-25 (三)	9 - 9	1	醫學系 詹耀龍	孕婦與胎兒議題案例討論（分組討論）
9	2009-02-25 (三)	9 - 9	1	醫學系 方基存	孕婦與胎兒議題案例討論（分組討論）
10	2009-03-03 (三)	9 - 9	1	中醫學 系內科 楊智偉	醫學研究倫理
11	2009-03-10 (三)	9 - 9	1	醫學系 外科 江仰仁	器官移植與資源分配
12	2009-03-17 (三)	9 - 9	1	醫學系 外科 江仰仁	器官移植倫理臨床案例討論（分組討論）
13	2009-03-17 (三)	9 - 9	1	醫學系 方基存	器官移植倫理臨床案例討論（分組討論）
14	2009-03-24 (三)	9 - 9	1	醫學系 張東杰	後基因時代遺傳倫理學
15	2009-04-01 (三)	9 - 9	1	職治系 劉嘉逸	精神醫學倫理學
16	2009-04-08 (三)	9 - 9	1	醫學系 任爾崇	醫師與藥商關係兼談醫師懲戒制度
17	2009-04-05 (三)	9 - 9	1	醫學系 內科 高振益	臨終照護倫理
18	2009-04-22 (三)	9 - 9	1	醫學系 內科 高振益	臨終與老人照護倫理議題案例討論（分組討論）
19	2009-04-22 (三)	9 - 9	1	醫學系 方基存	臨終與老人照護倫理議題案例討論（分組討論）
20	2009-04-22 (三)	9 - 9	1	醫學系 廖國臣	臨終與老人照護倫理議題案例討論（分組討論）
21	2009-04-29 (三)	9 - 9	1	醫學系 高國晉	重症照護倫理（分組討論）
22	2009-04-29 (三)	9 - 9	1	醫學系 方基存	重症照護倫理（分組討論）
23	2009-05-06	9 - 9	1	醫學系	臨床倫理案例報告與研討會(I)（分組討

	(三)			內科 高振益	論)
24	2009-05-06 (三)	9 - 9	1	醫學系 方基存	臨床倫理案例報告與研討會(I) (分組討論)
25	2009-05-13 (三)	9 - 9	1	醫學系 內科 高振益	臨床倫理案例報告與研討會(II) (分組討論)
26	2009-05-13 (三)	9 - 9	1	醫學系 方基存	臨床倫理案例報告與研討會(II) (分組討論)

