



Specialty: Minimally invasive thoracic surgery for lung and esophageal cancer
School : China Medical University 1992
Residency: Taipei Veterans General Hospital
Fellowship: Thoracic Surgery, Taipei Veterans General Hospital
Observer in Duke University Hospital 2007/7-2007/9
OFFICE: Koo Foundation Sun Yat-Sen Cancer Center.
125 Lih-Der Road, Pei-Tou District, Taipei, Taiwan. (Zip code 11259)

Biography

Dr. Chia-Chuan Liu graduated from China Medical University in 1992, and completed his residency and fellowship training in the Veteran General Hospital-Taipei in 2000. He now heads the thoracic surgery division in SYSCC, and has chaired the minimally invasive committee since 2008.

His clinical interest is multimodality and minimally invasive surgery for lung and esophageal cancer. He initiated the VATS forum in Taiwan early in 2005, doing live demonstration surgery for VATS lobectomy and minimally invasive esophagectomy for both Taiwan and foreign chest surgeons, collaborated with other leaders to set up animal lab workshop in Taiwan, and he is also now engaged in establishing the "Taiwan Esophageal Cancer Study Group" based on a nation-wide database -Taiwan Cancer Registry.

Membership in Professional Societies

Member, Taiwan Joint Cancer Association
Member, Taiwan Surgical Association
Member, Taiwan Society of Thoracic & Cardiovascular Surgery
Member, Taiwan Society of Pulmonary and Critical Care Medicine
Member, Taiwan Surgical Society of Gastroenterology
Member, The Society of Ultrasound in Medicine, R.O.C.

Academic Appointment

Lecturer, Department of Surgery, National Defense Medical Center
Clinical Assistant Professor of Surgery, National Yang-Ming University College of Medicine

Clinical Interests:

Thoracic minimally invasive surgery (Video Assisted Thoracic Surgery)
Single port surgery for primary lung cancer
Minimally invasive surgery for esophageal cancer and cancer of gastric cardia
Surgery for mediastinal tumor
Fellowship training program for thoracic minimally invasive surgery

Research Interests:

Clinical research for lung cancer
Clinical research for esophageal cancer

Affiliations/ Certifications:

1999 Board of Surgery
1999 Board of Thoracic Surgery
1999 Board of Pulmonary and Critical Care Medicine

Academic / professional Titles:

Chair of Minimally Invasive Surgery Committee
Vice leader of Lung and Esophageal Cancer Functional Group, SYSCC.
Member of Intensive Care Unit Committee, SYSCC

Representative Publications:

1. Liu CC. Hsu WH. Li WY. Huang MH. Treatment results of 17 patients with diffuse pleural mesothelioma. *Annals of Thoracic & Cardiovascular Surgery*. 4(5):233-9, 1998 Oct.
2. Liu CC. Fahn HJ. Li WY. Wu YC. Huang MH. Wang LS. Lymph node metastasis in squamous cell carcinoma of the Intrathoracic esophagus. *Chung Hua i Hsueh Tsa Chih - Chinese Medical Journal*. 61(2):77-84, 1998 Feb.

3. Wang LS. Chow KC. Liu CC. Chiu JH. p53 gene alternation in squamous cell carcinoma of the esophagus detected by PCR-cold SSCP analysis. *Proceedings of the National Science Council, Republic of China - Part B, Life Sciences.* 22(3):114-21, 1998 Jul.
4. Wang LS. Chow KC. Chi KH. Liu CC. Li WY. Chiu JH. Huang MH. Prognosis of esophageal squamous cell carcinoma: analysis of clinicopathological and biological factors. *American Journal of Gastroenterology.* 94(7):1933-40, 1999 Jul.
5. Wang LS. Chow KC. Li WY. Liu CC. Wu YC. Huang MH. Clinical significance of serum soluble interleukin 2 receptor- α in esophageal squamous cell carcinoma. *Clinical cancer research.* 6:1445-1451, 2000 Apr.
6. Hsu LH, Liu CC, Chen C. Expandable metallic stent (Ultraflex™) in a patient with esophageal carcinoma and tracheal invasion. [Abstract]. *Proceedings of Annual Congress of Taiwan Society of Pulmonary and Critical Care Medicine, Taipei Taiwan, Dec 9th –10th, 2000, p138*
7. Hsu LH. Liu CC. Lin CY. Yen KL. Chan KY. Self-expandable metallic tracheobronchial stent insertion and endobronchial electrocautery with flexible bronchoscopy: preliminary results at a cancer center. *J Formos Med Assoc.* 101(6):399-405, 2002
8. Tsung SH. Liu CC. Human pulmonary dirofilariasis in Taiwan. *J Formos Med Assoc.* 102(1):42-45, 2003.
9. Hsu LH. Liu CC. Ko JS. Education and experience improve the performance of transbronchial needle aspiration: a learning curve at a cancer center. *Chest.* 125(2):532-40, 2004 Feb.
10. Wang KM, Liu CC*, Shih CS, Hsu LH. Extralobar bronchopulmonary sequestration complicated by *Nocardia Asteroides* infection: a case report. *Thorac Med (Taiwan)* 2007; 22:367-72
11. Hsu LH*, Ko JS, You DL, Liu CC, Chu NM. Transbronchial needle aspiration accurately diagnoses sub-centimetre mediastinal and hilar lymph nodes detected by integrated positron emission tomography and computed tomography. *Respirology* 2007; 12, 848–55
12. Yu-Yi Huang, Dong-Ling You, Mei-Hwa Tsou, Chia-Chuan Liu c, Pei-Ing Lee. Primary pulmonary pleomorphic adenoma with high uptake of FDG. *European Journal of Radiology Extra* 62 (2007) 73–76
13. Liu CC, Wang KM, Hsu LH*. Tracheobronchial self-expanding metallic stents in patients with central airways obstruction. *J Bronchol* 2008; 15:11-16
14. Wang TJ. Shu SH. Lin CW. Chen LF. Lin TC. Chang Chien HS. Chan KY. Lee MY. Wang YA. Huang CJ. Liu CC. Thoracic chordoma: an unusual presentation of the spinal tumor. *Am J Med Sci.* 335(3):239-41, 2008 Mar.
15. Hsu LH, Liu CC, Nobuyama S, Miyazawa T*. Novel use of a disposable curved stent insertion plastic device for silicone stent placement in patients with limited neck extension. *J Bronchol Intervent Pulmonol* 2009; 16:15-7
16. Hsu LH, Chu NM*, Liu CC, Tsai SYC, You DL, Ko JS, Lu MC, Feng AC. Sex-associated differences in non-small cell lung cancer in the new era: Is gender an independent prognostic factor? *Lung Cancer* 2009; 66:262-7
17. Huang CJ. You DL. Lee PI. Hsu LH. Liu CC. Shih CS. Shih CC. Tseng HC. Characteristics of integrated 18F-FDG PET/CT in Pulmonary Cryptococcosis. *Acta Radiol.* 50(4):374-8, 2009 May.
18. Bing-Yen Wang, Chia-Chuan Liu, Chih-Shiun Shih. Short-Term Results of Thoracoscopic Lobectomy and Segmentectomy fro Lung Cancer in Koo Foundation Sun Yat-Sen Cancer Center. *J Thorac Dis* 2010; 2:64-70
19. Fang L. Huang CJ. Chuang AY. Tan TD. Liu CC. Chemotherapy-related delayed bilateral spontaneous pneumothorax and lung fibrosis: methotrexate or cyclophosphamide, or both? *Clin Respir J.* 4(4):254-5, 2010 Oct.
20. Wang BY, Shih CS, Liu CC, Hsieh CC. A simple way of gastric tube reconstruction after minimally invasive

esophagectomy. *Eur J Cardiothorac Surg.* 39(2011) 786-787

21. Wang BY, Shih CS, Liu CC. Thoracoscopic enucleation of a gastrointestinal stromal tumor of esophagus. *The Thoracic and Cardiovascular Surgeon.* 2011, 59: 184-192

22. Pei-Ing Lee, Dong-Ling You, Chia-Chuan Liu, Chih-Hsun Shih, Ming-Yuan Lee and Yu-Yi Huang. FDG PET in predicting pathologic response and survival after preoperative chemoradiation therapy in esophageal cancer. *J Nucl Med.* 2011; 52 (Supplement 1):1838

23. Chung-Jen Huang, An-Chen Feng, Wen-Hui Ku, Nei-Min Chu, Chih-Teng Yu, Chia-Chuan Liu, Min-Yuan Lee, Li-Han Hsu, Stella Y.C. Tsai, Chih-Shiun Shih, Chih-Liang Wang. Multimodality Treatment and Long-Term Follow-Up of the Primary Pulmonary Lymphoepithelioma-Like Carcinoma. *Clinical Lung Cancer Sep.* 2012;359-362

24. Bing-Yen Wang, Lien Cheng Tsao, Ching-Yuan Cheng, Chih-Shiun Shih and Chia-Chuan Liu. Experience with a simple laparoscopic gastric tube construction. *Journal of Cardiothoracic Surgery* 2013, 8:14

25. Wang BY, Tu CC, Liu CY, Shih CS, Liu CC. Single-Incision thoracoscopic lobectomy and segmentectomy with radical lymph node dissection. *Ann Thorac Surg* 2013;96: 977–82.

26. Chao-Yu Liu, Bing-Yen Wang, Ming-Yuan Lee, Yu-Chen Tsai, Chia-Chuan Liu, Chih-Hsun Shih. The prognostic value of circumferential resection margin in esophageal squamous cell carcinoma after concurrent chemoradiation therapy and surgery. *Journal of the Chinese Medical Association* 76 (2013) 570-575.

27. Nai-Liang Li, Chia-Chuan Liu, Skye Hung-Chun Cheng, Chen-Fang Hung, Wei-Ju Lai, I-Fang Chao, Wen-Ling Peng, Chii-Ming Chen. Feasibility of combined paravertebral block and subcostal transversus abdominis plane block in postoperative pain control after minimally invasive esophagectomy. *Acta Anaesthesiologica Taiwanica* 51 (2013) 103-107.

28. Chao-Yu Liu, Chen-Sung Lin, Chih-Hsun Shih, Chia-Chuan Liu, Single-port video-assisted thoracoscopic surgery for lung cancer. *Journal of Thoracic Disease* 2014;6(1):14-21.

29. Huang, C. L., Liu, C. C., Cheng, C. Y., Lin, C. H., Wu, Y. C., & Wang, B. Y. (2014). Learning Thoracoscopic Lobectomy in Resident Training. *The Thoracic and cardiovascular surgeon, (EFirst).*

30. Chia-Chuan, Liu, Bing-Yen Wang, Chih-Shiun Shih, Yun-Hen, Liu. Subxiphoid Single-Incision Thoracoscopic Left Upper Lobectomy. Accepted: August 18, 2014; Published Online: August 22, 2014.

31. BY Wang, CY Liu, PK Hsu, CS Shih, CC Liu Single-Incision Versus Multiple-Incision Thoracoscopic Lobectomy and Segmentectomy: A Propensity-Matched Analysis *Annals of Surgery: Post Author Corrections:* May 15, 2014