

Curriculum Vitae

Shih-Chi (Simon) Ku, M.D., MPH

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EDUCATION AND TRAINING

- Chung-Shan Medical and Dental College, Taichung, Taiwan
M.D., June 1992
- Residency in Internal Medicine, National Taiwan University Hospital (NTUH), Taipei, Taiwan, 1994 - 1997
- Chief Medical Resident at National Taiwan University Hospital Taipei, Taiwan, 1997
- Fellowship in Division of Chest, Department of Internal Medicine, National Taiwan University Hospital, Taipei, Taiwan, 1997 – 1999
- Master of Public Health, Department of Health Services, School of Public Health and Communication Medicine, University of Washington, 2002 - 2004

PROFESSIONAL EXPERIENCE

- 1999 – 2001 Taoyuan Hospital, Department of Health, Executive Yuan, Taoyuan County, Taiwan
Attending Physician. Co-instructor of the teaching and training program of primary care physician of NTUH.
- 2001 Far-East Memorial Hospital, Ban-Qiao City, Taipei County, Taiwan
Attending Physician. Majored in the patient care of intensive care unit
- 2002 to 2004 **Visiting Scholar,**
major in studying the survival of critically ill patients
Harborview Medical Center
University of Washington
- 2001 to 2002, Division of Pulmonary and Critical Care Medicine,
2004 to present Department of Internal Medicine
National Taiwan University Hospital
Attending Physician Majored in the patient care of medical intensive care unit and intermediate intensive care ward; also as an adjunct part-time faculty in the College of Medicine, National Taiwan University
- 2006 to present **Deputy Director** of residency training program in internal medicine, National Taiwan University Hospital
- 2010 to present **Committee members** of Council of administration for intensive care units, National Taiwan University Hospital
- 2011 to present **Assistant of Superintendent,**
National Taiwan University Hospital
- 2012 to present **Committee members** of Academic Council of Taiwan Society of Internal Medicine

- 2013 to present **Committee members** of Education Council of Taiwan
Society of Critical Care Medicine
- 2016 to present **Director of Respiratory Care Center,**
Department of Internal Medicine
National Taiwan University Hospital
- 2018 August **Director of Medical Intensive Care Units**
Department of Internal Medicine
National Taiwan University Hospital
- 2019 to present **Deputy Present of Taiwan Society of Critical Care**
Medicine

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PROFESSIONAL INTERESTS AND SPECIALITIES

- Internal Medicine
- Pulmonary and Critical Care Medicine
- Ultrasound in respiratory system
- Sleep disorder breathing

PROFESSIONAL SOCIETY

- Member of the Taiwan Society of pulmonary and critical care medicine
- Member of the Society of Internal Medicine, Taiwan.
- Member of the Formosan Medical Association, Taiwan
- Member of the Society of Ultrasound in Medicine, Taiwan.

ATTENDING OF CLINICAL STUDIES

- A prospective, controlled, randomised, open, multicentre, multinational study comparing the efficacy and safety of IV to oral ciprofloxacin plus amikacin versus IV ceftazidime plus amikacin for the treatment of hospital-acquired pneumonia, Bayer (Singapore) Pte. Ltd., BAY q 3939/0576/ BAY o 9867/1467 OKE22, co-investigator, in Feb 1998
- Oxis® and pulmicort turbuhaler® in the management of asthma (OPTIMA), co-investigator in March 1998
- King County Acute Lung Injury Study (KCLIP), the survival outcome study of acute lung injury and acute respiratory distress syndrome, Harborview Medical Center, University of Washington, 2002-2004
- Unscheduled Readmission of Critically ill Patients, the risk factors and its impact on their outcomes, National Taiwan University Hospital, 2004- present

REPRESENTATIVE PUBLICATIONS

1. **Ku, Shih-Chi**, Hsueh, Po-Ren, Yang, Pan-Chyr, Luh, Kwen-Tay. Clinical and microbiological characteristics of bacteremia caused by *Acinetobacter Iwoffii*. *Eur J Clin Microbiol Infect Dis*, 2000 Jul;19 (7): 501-5.
2. **Ku, Shih-Chi**, Tang, Jih-Luh, Hsueh, Po-Ren, Luh, Kwen-Tay, Yu, Chong-Jen, and Yang, Pan-Chyr. Pulmonary tuberculosis in allogeneic hematopoietic stem cell transplantation. *Bone Marrow Transplant*, 2001 Jul; 27:1293-1297.
3. **Ku, Shih-Chi**, Hsueh, Po-Ren, Yang, Pan-Chyr, Luh, Kwen-Tay. Impact of changing antibiotic policy on the emergence of multiresistant bacteria in a medical intensive care unit: focusing on the extended-spectrum β -lactamase *Enterobacteriaceae* and patient Outcomes.
4. **Shih-Chi Ku**, Gordon D Rubenfeld, J Randall Curtis, David J Pierson. Survival of critically ill trauma patients with acute lung injury and acute respiratory distress syndrome.
5. **Ku, Shih-Chi**. Book review: Percutaneous tracheostomy: a practical handbook. *Respiratory Care*, 2005, 50: 879-880.
6. Wei-Lun Liu, **Shih-Chi Ku**, Pan-Chyr Yang. Pulmonary metastatic malignant melanoma with endobronchial involvement: a case report and literature review. (corresponder) *Thoracic Medicine*, 2006; 21: 182-189.
7. Yu-Feng Wei, Kou-Chou Hsieh, **Shih-Chi Ku**, Cheng-Yi Wang, Chao-Chi Ho, Chong-Jen Yu, Pan-Chyr Yang. Levels of s TREM (Soluble Triggering Receptor Expressed on Myeloid Cells)-1 in Pleural Effusion as an Indicator of Pulmonary Bacterial Infection. *Thoracic Medicine*, 2006; 21: 406-411.

8. **S-C Ku**, Y-F Wei and L-C Lin. Pulmonary infarction from central venous air embolism mimicking round pneumonia. (corresponder) *Thorax*, 2007; 62;372
9. Chiu YS, Wang JT, Chang SC, Tang JL, **Ku, SC**, Hung CC, Hsueh PR, Chen YC. Mycobacterium tuberculosis bacteremia in HIV-negative patients. *J Formos Med Assoc*. 2007 May;106(5):355-64.
10. Hong-Yih Tein, **Shih-Chi Ku**, Yih-Leong Chang, Pan-Chyr Yang. Pneumoconiosis in a dental technician presenting with interstitial pneumonitis: a case report. (corresponder) *Thoracic Medicine*, 2007; 22: 299-304.
11. Shu, CC, Yao, M, Hung, CC, **Ku, SC**, Yu, CJ, Chang, YL. Lung abscess due to Clostridium baratii infection in a patient with invasive pulmonary aspergillosis. (corresponder) *J Clin Microbiol*. 2008 Mar;46(3):1153-4..
12. Lin, PY, Chen, JS, **Ku, SC**, Wu, MZ, Yu, CJ, Yang, PC. A 50-year-old man with bilateral pulmonary tumours. (corresponder) *Thorax*. 2008 Mar;63(3):193, 239.
13. Wei, YF, Liaw, YS, **Ku, SC**, Chang, YL, Yang, PC. Clinical features and predictors of a complicated treatment course in peripheral tuberculous lymphadenitis. (corresponder) *J Formos Med Assoc*. 2008 Mar;107(3):225-31.
14. Wu, JY, Hsu, SC, **Ku, SC**, Ho, CC, Yu, CJ, Yang, PC. Adrenal insufficiency in prolonged critical illness. *Crit Care*. 2008;12(3):R65
15. Chun-Ta Huang, Yih-Leong Chang, Yi-Ju Tsai, **Shih-Chi Ku**, Chong-Jen Yu. Cryptogenic organizing pneumonia mimicking community-acquired pneumonia with acute respiratory failure: a case report. (corresponder) *Thoracic Medicine*, 2008; 23: 297-303.
16. Su, TH, **Ku, SC**. Leakage of air bubbles in subcutaneous emphysema. *Resuscitation*. (corresponder) 2008 Sep;78(3):250-1.

17. Lin, Ming-Tzer, Huang, Chun-Ta, **Ku, Shih-Chi**. Pulmonary metastatic calcification in adult T cell lymphoma/leukemia. *Acta Clinica Belgica*, 2009; 64-5
18. Wu, JY, **Ku, SC**, Shu, CC, Fan, JY, Chen, HY, Chen, YC, Yu, CJ. The role of chest radiography in the suspicion for and diagnosis of pulmonary tuberculosis in intensive care units. *Int J Tuberc Lung Dis*. 2009 Nov;13(11):1380-6.
19. Kuo CC, **Ku SC**, Wang JT, Tsai CW, Wu VC, Chou WC. Psoas abscess caused by non-typhoid Salmonella in a patient with severe aplastic anemia. *Yonsei Med J*. 2010 May;51(3):472-4.
20. Infectious Diseases Society of Taiwan; Hematology Society of Taiwan; Taiwan Society of Pulmonary and Critical Care Medicine; Medical Foundation in Memory of Dr Deh-Lin Cheng; Foundation of Professor Wei-Chuan Hsieh for Infectious Diseases Research and Education; CY Lee's Research Foundation for Pediatric Infectious Diseases and Vaccines. Guidelines for the use of antifungal agents in patients with invasive fungal infections in Taiwan--revised 2009. *J Microbiol Immunol Infect*. 2010 Jun;43(3):258-63
21. Chuang YM, **Ku SC**, Liaw SJ, Wu SC, Ho YC, Yu CJ, Hsueh PR. 11. Disseminated *Cryptococcus neoformans* var. *grubii* infections in intensive care units. *Epidemiol Infect*. 2010 Jul;138(7):1036-43.
22. Liu WL, Kuo PH, **Ku SC**, Huang PM, Yang PC. Impact of therapeutic interventions on survival of patients with hepatic hydrothorax. *J Formos Med Assoc*. 2010 Aug;109(8):582-8.
23. Huang CT, Tsai YJ, Fan JY, **Ku SC**, Yu CJ. Cryptococcosis and tuberculosis co-infection at a university hospital in Taiwan, 1993-2006. *Infection*. 2010 Oct;38(5):373-9.
24. Lin MT, Wei YF, **Ku SC**, Lin CA, Ho CC, Yu CJ. Serum soluble triggering receptor expressed on myeloid cells-1 in acute respiratory distress syndrome: a prospective observational cohort study. *J Formos Med Assoc*. 2010 Nov;109(11):800-9

25. Feng JY, Fang WF, Wu CL, Yu CJ, Lin MC, **Ku SC**, Chen YC, Chen CW, Tu CY, Su WJ, Yang KY. Concomitant pulmonary tuberculosis in hospitalized healthcare-associated pneumonia in a tuberculosis endemic area: a multi-center retrospective study PLoS One. 2012;7(5):e36832.
26. Wu CL, **Ku SC**, Yang KY, Fang WF, Tu CY, Chen CW, Hsu KH, Fan WC, Lin MC, Chen W, Ou CY, Yu CJ. Antimicrobial drug-resistant microbes associated with hospitalized community-acquired and healthcare-associated pneumonia: a multi-center study in Taiwan. J Formos Med Assoc. 2013 Jan;112 (1):31-40
27. Yi-Chun Lai, **Shih-Chi Ku**, Chong-Jen Yu. Non-small cell lung cancer in a pregnant woman with intra-cardiac metastasis, superior vena cava syndrome and right main bronchus compression: a case report. (corresponder) *Thoracic Medicine*, 2013; 28: 296-303.
28. Yeh JH, Huang CT, Liu CH, Ruan SY, Tsai YJ, Chien YC, Yang CY, Huang CK, Hsu CL, Kuo LC, Lee PL, **Ku SC**, Kuo PH, Yu CJ; HINT Study Group. Cautious application of pleural N-terminal pro-B-type natriuretic peptide in diagnosis of congestive heart failure pleural effusions among critically ill patients. PLoS One. 2014 Dec 12;9(12):e115301.
29. Su H¹, Hsiao TY, **Ku SC**, Wang TG, Lee JJ, Tzeng WC, Huang GH, Chen CC. Tongue weakness and somatosensory disturbance following oral endotracheal extubation. *Dysphagia*. 2015 Apr;30(2):188-95.
30. Ruan SY, Lin FC, Huang CT, **Ku SC**, Wu HD. Effect of incomplete withdrawal of a closed-suction catheter on airway resistance.. *Intensive Care Med*. 2015 Aug;41(8):1496-7.
31. It's Time to Reappraise the Impact of Auto-PEEP.**Ku SC**. *Respir Care*. 2016 Feb;61(2):258-9.

32. Huang CT, Ruan SY, Tsai YJ, Kuo PH, **Ku SC**, Lee PL, Kuo LC, Hsu CL, Huang CK, Yang CY, Chien YC, Wang JY, Yu CJ. Effects of acute critical illnesses on the performance of interferon-gamma release assay. *Sci Rep*. 2016 Jan 25;6:19972.
33. Tsai MH, **Ku SC**, Wang TG, Hsiao TY, Lee JJ, Chan DC, Huang GH, Chen CC. Swallowing dysfunction following endotracheal intubation: Age matters.. *Medicine (Baltimore)*. 2016 Jun;95(24):e3871
34. Chen CC, Wu KH, **Ku SC**, Chan DC, Lee JJ, Wang TG, Hsiao TY. Bedside screen for oral cavity structure, salivary flow, and vocal production over the 14days following endotracheal extubation. *J Crit Care*. 2018 Jun;45:1-6.
35. Lin FM, Feng JY, Fang WF, Wu CL, Yu CJ, Lin MC, **Ku SC**, Chen CW, Tu CY, Yang KY. Impact of prior pulmonary tuberculosis in treatment outcomes of HCAP and CAP patients in intensive care units. *J Microbiol Immunol Infect*. 2018 Sep 5.
36. Yang CW, **Ku SC**, Ma MH, Chu TS, Chang SC. Application of high-fidelity simulation in critical care residency training as an effective learning, assessment, and prediction tool for clinical performance. *J Formos Med Assoc*. 2019 Sep;118(9):1347-1355
37. Huang CT, Ruan SY, Tsai YJ, **Ku SC**, Yu CJ. Clinical Trajectories and Causes of Death in Septic Patients with a Low APACHE II Score. *J Clin Med*. 2019 Jul 20;8(7). pii: E1064.
38. Wu CC, Tai CH, Liao WY, Wang CC, Kuo CH, Lin SW, **Ku SC**. Augmented renal clearance is associated with inadequate antibiotic pharmacokinetic/pharmacodynamic target in Asian ICU population: a prospective observational study. *Infect Drug Resist*. 2019 Aug 16;12:2531-2541.
39. Wu CP, Xu YJ, Wang TG, **Ku SC**, Chan DC, Lee JJ, Wei YC, Hsiao TY, Chen CC. Effects of a swallowing and oral care intervention for

patients following endotracheal extubation: a pre- and post-intervention study. Crit Care. 2019 Nov 9;23(1):350.

40. Lin SJ, Jerng JS, Kuo YW, Wu CL, **Ku SC**, Wu H D.

Maximal expiratory pressure is associated with reinstatement of mechanical ventilation after successful unassisted breathing trials in tracheostomized patients with prolonged mechanical ventilation.

PLoS One. 2020 Mar 10;15(3):e0229935