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<b>Country</b>	Republic of Korea	
<b>Organization</b>	Pusan National University Hospital	
<b>Current Position</b>	Associate professor	

### Educational Background

1998~2004 School of Medicine, Pusan National University, Busan, Korea: Bachelor of Medicine  
2010~2012 School of Medicine, Pusan National University, Busan, Korea: Master of Medicine  
2015~2019 School of Medicine, Pusan National University, Busan, Korea: Doctor of Medicine

### Professional Experiences

2008~2012 Pusan National University Hospital: Residency - Department of Internal Medicine  
2012~2014 Samsung Medical Center: Fellowship - Division of Pulmonary & Critical Care Medicine  
2014~2022 Pusan National University Hospital: Assistant professor  
2015 St. Marianna University Hospital, Kawasaki-shi, Kanagawa-ken, Japan: Visiting professor  
2018 Nagoya Medical Center, Japan: Visiting professor  
2023~ Pusan National University Hospital: Associate professor

### Professional Organizations

Member of KATRD (Korean Academy of Tuberculosis and Respiratory Diseases)  
Member of KALC (Korean Association for Lung Cancer)  
Member of IASLC (International Association for the Study of Lung Cancer)

### Main Scientific Publications

#### ▪ Publications in SCI(E) Journals: as the corresponding author

1. Exposure to Mycobacterium tuberculosis during Flexible Bronchoscopy in Patients with Unexpected Pulmonary Tuberculosis. PLoS One. 2016 May 26;11(5):e0156385.
2. Pleurodesis Using Mistletoe Extract Delivered via a Spray Catheter during Semirigid Pleuroscopy for Managing Symptomatic Malignant Pleural Effusion. Respiration. 2018;95(3):177-181.
3. Successful Stenting for Bronchial Stenosis Resulting from Blunt Airway Trauma. Intern Med. 2018 Nov 15;57(22):3277-3280.
4. Molecular analysis of small tissue samples obtained via transbronchial lung biopsy using radial probe endobronchial ultrasound. PLoS One. 2019 Feb 26;14(2):e0212672.
5. Reliability of PD-L1 assays using small tissue samples compared with surgical specimens. Medicine (Baltimore). 2019 Apr;98(14):e14972.

6. Feasibility of low dose chest CT for virtual bronchoscopy navigation in a porcine model. *Respir Res.* 2019 Jul 8;20(1):142.
  7. Clinical outcomes of radial probe endobronchial ultrasound using a guide sheath for diagnosis of peripheral lung lesions in patients with pulmonary emphysema. *Respir Res.* 2019 Aug 6;20(1):177.
  8. Bronchoscopic management of solitary bronchial myelolipoma: a case report. *BMC Pulm Med.* 2019 Sep 2;19(1):151.
  9. Appropriate amounts proportions of lidocaine gel, indigo carmine and lipiodol mixture for preoperative marking in video-assisted thoracic surgery. *Gen Thorac Cardiovasc Surg.* 2020 Jan;68(1):87-90.
  10. Unexpected exposure to *Mycobacterium tuberculosis* during bronchoscopy using radial probe endobronchial ultrasound. *PLoS One.* 2021 Jan 28;16(1):e0246371.
  11. Clinical course of asymptomatic malignant pleural effusion in non-small cell lung cancer patients: A multicenter retrospective study. *Medicine (Baltimore).* 2021 May 14;100(19):e25748.
  12. Safety and Diagnostic Yield of Radial Probe Endobronchial Ultrasound-Guided Biopsy for Peripheral Lung Lesions in Patients with Idiopathic Pulmonary Fibrosis: A Multicenter Cross-Sectional Study. *Respiration.* 2022;101(4):401-407.
  13. Combined procedure with radial probe and convex probe endobronchial ultrasound. *Thorac Cancer.* 2022 Aug 29.
  14. A Life-Threatening Infection after Endobronchial Ultrasound Transbronchial Lung Biopsy with Guide Sheath: A Case Report. *Medicina (Kaunas).* 2022 Sep 14;58(9):1275.
  15. The Additive Impact of Transbronchial Cryobiopsy Using a 1.1-mm Diameter Cryoprobe on Conventional Biopsy for Peripheral Lung Nodules. *Cancer Res Treat.* 2022 Nov 1.
  16. Ultrathin Bronchoscopy for the Diagnosis of Peripheral Pulmonary Lesions: A Meta-Analysis. *Respiration.* 2022 Nov 22:1-12.
  17. Favorable Conditions for the Detection of EGFR T790M Mutation Using Plasma Sample in Patients with Non-Small-Cell Lung Cancer. *Cancers (Basel).* 2023 Feb 24;15(5):1445.
  18. Should We Perform Repeated Re-Biopsy for the Detection of T790M Mutation? *Cancer Res Treat.* 2023 Apr 17.
  19. Clinical outcomes of transbronchial cryobiopsy using a 1.1-mm diameter cryoprobe for peripheral lung lesions - A prospective pilot study. *Respir Med.* 2023 Jun 26;217:107338.
  20. Stability and safety of transbronchial dye mixture for preoperative localization in a porcine model. *Thorac Cancer.* 2023 Mar;14(9):834-839.
  21. Clinical outcomes of transbronchial cryobiopsy using a 1.1-mm diameter cryoprobe for peripheral lung lesions - A prospective pilot study. *Respir Med.* 2023 Oct;217:107338.
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**▪ Publications in SCI(E) Journals: as the first author**

1. Tracheal wall thickening is associated with the granulation tissue formation around silicone stents in patients with post-tuberculosis tracheal stenosis. *Yonsei Med J.* 2013 Jul;54(4):949-56.
  2. Timing of silicone stent removal in patients with post-tuberculosis bronchial stenosis. *Ann Thorac Med.* 2013 Oct;8(4):218-23.
  3. The relationships between tracheal index and lung volume parameters in mild-to-moderate COPD. *Eur J Radiol.* 2013 Dec;82(12):e867-72.
  4. Fibrotic airway stenosis following radiotherapy in patients with adenoid cystic carcinoma. *Respirology.* 2014 Aug;19(6):914-20.
  5. Chronic obstructive pulmonary disease severity is associated with severe pneumonia. *Ann Thorac Med.* 2015 Apr-Jun;10(2):105-11.
  6. Efficacy of TB-PCR using EBUS-TBNA samples in patients with intrathoracic granulomatous lymphadenopathy. *BMC Pulm Med.* 2015 Dec 28;15(1):166.
  7. Household tuberculosis contact investigation in a tuberculosis-prevalent country: Are the tuberculin skin test and interferon-gamma release assay enough in elderly contacts? *Medicine (Baltimore).* 2018 Jan;97(3):e9681.
  8. Diagnostic value of microRNAs derived from exosomes in bronchoalveolar lavage fluid of early-stage lung adenocarcinoma: A pilot study. *Thorac Cancer.* 2018 Aug;9(8):911-915.
  9. Radial probe endobronchial ultrasound using a guide sheath for peripheral lung lesions in beginners. *BMC Pulm Med.* 2018 Aug 13;18(1):137.
  10. Feasibility of Ultra-Low-Dose CT for Bronchoscopy of Peripheral Lung Lesions. *Medicina (Kaunas).* 2020 Sep 19;56(9):479.
  11. Evaluation of factors affecting the visualization of dye after transbronchial dye injection: an animal experiment. *Ann Transl Med.* 2020 Nov;8(21):1425.
  12. Localization Technique Using Mixture of Indigo Carmine and Lipiodol of Pulmonary Nodule via Bronchoscopic Navigation. *Medicina (Kaunas).* 2022 Sep 6;58(9):1235.
  13. Bronchial washing using a thin versus a thick bronchoscope to diagnose pulmonary tuberculosis: A randomized trial. *Clin Infect Dis.* *Clin Infect Dis.* 2023 Jan 13;76(2):238-244.
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