

**International Conference 2023**

November 8 (Wed) - 10 (Fri), 2023 / Lotte Hotel World, Seoul, Korea

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Name	Hayoung Choi	
Country	Korea	
Organization	Department of Internal Medicine, Hallym University	
Current Position	Associate Professor	

**Educational Background**

2001–2007	Chonnam National University College of Medicine, Gwangju, Korea (M.D.)
2012–2014	Chonnam National University Graduate School of Medicine, Gwangju, Korea (M.S.)
2019–2022	Sungkyunkwan University School of Medicine, Seoul, Korea (Ph.D.)

**Professional Experiences**

2011–2016	Internship and Residency in Internal Medicine Chonnam National University Hospital, Gwangju, Korea
2016–2017	Clinical Fellow in Division of Pulmonary and Critical Care Medicine Department of Medicine, Samsung Medical Center, Seoul, Korea
2017–2018	Clinical Assistant Professor Department of Internal Medicine, Hallym University Kangnam Sacred Heart Hospital, Seoul, Korea
2018–2023	Assistant Professor Department of Internal Medicine, Hallym University, Seoul, Korea
2022–2023	Visiting Researcher Division of Molecular and Clinical Medicine, University of Dundee, United Kingdom
2023–current	Associate Professor Department of Internal Medicine, Hallym University, Seoul, Korea

**Professional Organizations**

2016–current	Korean Academy of Tuberculosis and Respiratory Diseases
2017–current	Korean Society of Critical Care Medicine
2019–current	American Thoracic Society
2020–current	European Respiratory Society

**Main Scientific Publications**

1. **Choi H**, Lee JY, Yoo H, Jeon K. Bioinformatics Analysis of Gene Expression Profiles for Diagnosing Sepsis and Risk Prediction in Patients with Sepsis. *Int J Mol Sci* 2023;24:9362.
2. Kim Y, Yoon JH, Ryu J, Yang B, Chung SJ, Kang HK, Park DW, Park TS, Moon JY, Kim TH, Kim SH, Sohn JW, Yoon HJ, Lee H, **Choi H**. Gastroesophageal reflux disease increases susceptibility to non-tuberculous mycobacterial pulmonary disease. *Chest* 2023;163:270.
3. **Choi H**, Han K, Jung JH, Park SH, Kim SH, Kang HK, Sohn JW, Shin DW, Lee H. Long-term mortality of tuberculosis survivors in Korea: a population-based longitudinal study. *Clin Infect Dis* 2023;76:e973.
4. Moon SM, **Choi H**, Kang HK, Lee SW, Sim YS, Park HY, Kwon YS, Kim SH, Oh YM, Lee H. Impacts of asthma in patients with bronchiectasis: findings from the KMBARC registry. *Allergy Asthma Immunol Res* 2023;15:83.

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5. **Choi H**, Kim SH, Han K, Park TS, Park DW, Moon JY, Kim SH, Kim TH, Sohn JW, Yoon HJ, Lee H. Association between exercise and risk of cardiovascular diseases in patients with non-cystic fibrosis bronchiectasis. *Respir Res* 2022;23:288.
6. **Choi H**, Park HY, Han K, Yoo J, Shin SH, Yang B, Kim Y, Park TS, Park DW, Moon JY, Ra SW, Kim TH, Kim SH, Oh YM, Yoon HJ, Sohn JW, Lee H. Non-Cystic Fibrosis Bronchiectasis Increases the Risk of Lung Cancer Independent of Smoking Status. *Ann Am Thorac Soc* 2022;19:1551.
7. **Choi H**, Yoo H, Lee JY, Park J, Jeon K. Plasma Mitochondrial DNA and Necroptosis as Prognostic Indicators in Critically Ill Patients with Sepsis. *Biomedicines* 2022;10:2386.
8. **Choi H**, Han K, Yang B, Shin DW, Sohn JW, Lee H. Female reproductive factors and incidence of non-tuberculous mycobacterial pulmonary disease among postmenopausal women in Korea. *Clin Infect Dis* 2022;75:1397.
9. Kim Y, Han K, Yoo J, Kang HK, Park TS, Park DW, Hong JY, Moon JY, Kim SH, Kim TH, Yoo KH, Sohn JW, Yoon HJ, **Choi H**, Lee H. Risk Factors of Incident Lung Cancer in Patients with Non-Cystic Fibrosis Bronchiectasis: A Korean Population-Based Study. *Cancers* 2022;14:2604.
10. Lee H, **Choi H**, Jo YS. Trends in Influenza Vaccination Rates in Participants With Airflow Limitation: The Korea National Health and Nutrition Examination Survey 2007–2018. *Front Med* 2022;9:870617.
11. Yang B, Han K, Kim B, Kang HK, Kim JS, Kim EG, **Choi H**, Lee H. Association between Smoking Status and Incident Non-Cystic Fibrosis Bronchiectasis in Young Adults: A Nationwide Population-Based Study. *J Pers Med* 2022;12:691.
12. Kim T, Yoon JH, Yang B, Ryu J, Yoon CK, Kim Y, Sohn JW, Lee H, **Choi H**. Healthcare Utilization and Medical Cost of Gastrointestinal Reflux Disease in Non-tuberculous Mycobacterial Pulmonary Disease: A Population-Based Study, South Korea, 2009–2017. *Front Med* 2022;9:793453.
13. Park HY, Kang D, Shin SH, **Choi H**, Jang SH, Lee CH, Kim H, Kwon OJ, Rhee CK, Cho J. Pulmonary Tuberculosis and the Incidence of Lung Cancer among Patients with Chronic Obstructive Pulmonary Disease. *Ann Am Thorac Soc* 2022;19:640.
14. **Choi H**, Lee H, Ra SW, Jang JG, Lee JH, Jhun BW, Park HY, Jung JY, Lee SJ, Jo KW, Rhee CK, Kim C, Lee SW, Min KH, Kwon YS, Kim DK, Lee JH, Park YB, Chung EH, Kim YJ, Yoo KH, Oh YM. Developing a Diagnostic Bundle for Bronchiectasis in South Korea: A Modified Delphi Consensus Study. *Tuberc Respir Dis* 2022;85:56.
15. Yoon JH, Kim SH, Ryu J, Chung SJ, Kim Y, Yoon CK, Ra SW, Oh YM, **Choi H**, Lee H. Gastro-oesophageal reflux disease increases healthcare use and medical costs in patients with bronchiectasis: a Korean nationwide population-based study. *Therap Adv Gastroenterol* 2021;14:17562848211062801.
16. **Choi H**, Yoo JE, Han K, Choi W, Rhee SY, Lee H, Shin DW. Body Mass Index, Diabetes, and Risk of Tuberculosis: A Retrospective Cohort Study. *Front Nutr* 2021;8:739766.
17. Lee H, **Choi H**, Lee SK, Park TS, Park DW, Moon JY, Kim TH, Sohn JW, Yoon HJ, Kim SH. Predicting Factors of Severe COVID-19 in Patients With Asthma: A Korean National Cohort Study. *Allergy Asthma Immunol Res* 2021;13:939.
18. **Choi H**, Ko Y, Lee CY, Chung SJ, Kim HI, Kim JH, Park S, Hwang YI, Jang SH, Jung KS, Kim YK, Park JY. Impact of COVID-19 on TB epidemiology in South Korea. *Int J Tuberc Lung Dis* 2021;25:854.
19. **Choi H**, Lee H, Ra SW, Kim HK, Lee JS, Um SJ, Kim SH, Oh YM, Kwon YS. Clinical Characteristics of Patients with Post-Tuberculosis Bronchiectasis: Findings from the KMBARC Registry. *J Clin Med* 2021;10:4542.
20. Kim T, Lee H, Sim YS, Yang B, Park HY, Ra SW, Jang HJ, Yoo SJ, Kim SH, Sohn JW, Yoon HJ, Oh YM, Kwon YS, **Choi H**. Respiratory symptoms and health-related quality of life in post-tuberculosis subjects with physician-diagnosed bronchiectasis: a cross-sectional study. *J Thorac Dis* 2021;13:4894.

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21. Lee H, **Choi H**, Yang B, Lee SK, Park TS, Park DW, Moon JY, Kim TH, Sohn JW, Yoon HJ, Kim SH. Interstitial lung disease increases susceptibility to and severity of COVID-19. *Eur Respir J* 2021;58:2004125.
22. Lee H, **Choi H**, Chalmers JD, Dhar R, Nguyen TQ, Visser SK, Morgan LC, Oh YM. Characteristics of bronchiectasis in Korea: First data from the Korean Multicentre Bronchiectasis Audit and Research Collaboration registry and comparison with other international registries. *Respirology* 2021;26:619.
23. **Choi H**, Lee JK, Oh HJ, Kim MS, Kho BG, Park CK, Oh IJ, Kim YC. Efficacy and dose of afatinib in patients with non-small cell lung cancer after failure of prior gefitinib or erlotinib treatment. *Thorac Cancer* 2021;12:1598.
24. **Choi H**, Yang B, Kim YJ, Sin S, Jo YS, Kim Y, Park HY, Ra SW, Oh YM, Chung SJ, Yeo Y, Park DW, Park TS, Moon JY, Kim SH, Kim TH, Yoon HJ, Sohn JW, Lee H. Increased mortality in patients with non cystic fibrosis bronchiectasis respiratory comorbidities. *Sci Rep* 2021;11:7126.
25. **Choi H**, Lee H, Lee SK, Yang B, Chung SJ, Yeo Y, Park TS, Park DW, Moon JY, Kim TH, Sohn JW, Yoon HJ, Kim SH. Impact of bronchiectasis on susceptibility to and severity of COVID-19: a nationwide cohort study. *Ther Adv Respir Dis* 2021;15.
26. Yang B, Ryu J, Kim T, Jo YS, Kim Y, Park HY, Kang YA, Lee SJ, Lee OJ, Moon JY, Ra SW, Kim SH, Kim TH, Kwon YS, Oh YM, Lee KM, Sohn JW, Yoon HJ, **Choi H**, Lee H. Impact of Bronchiectasis on incident NTM pulmonary disease: A 10-Year national cohort study. *Chest* 2021;159:1807.
27. Yang B, **Choi H**, Lee SK, Chung SJ, Yeo Y, Shin YM, Park DW, Park TS, Moon JY, Kim TH, Sim YS, Yoon HJ, Sohn JW, Lee H, Kim SH. Risk of Coronavirus Disease Incidence, Severe Presentation, and Mortality in Patients with Lung Cancer. *Cancer Res Treat* 2021;53:678.
28. Lee H, **Choi H**, Nam H, Yang B, Hwangbo B, Kong SY, Chung SJ, Yeo Y, Park TS, Park DW, Moon JY, Kim TH, Sohn JW, Yoon HJ, Kim SH. Body mass index change and incident asthma in adults: A nationwide cohort study. *Allergy* 2021;76:1896.
29. Chung SJ, Kim HI, Yang B, Kim T, Sim YS, Kang HK, Kim SH, Yoon HJ, **Choi H**, Lee H. Impact of the severity of restrictive spirometric pattern on nutrition, physical activity, and quality of life: results from a nationally representative database. *Sci Rep* 2020;10:19672.
30. Yang B, Jang HJ, Chung SJ, Yoo SJ, Kim T, Kim SH, Shin YM, Kang HK, Kim JS, **Choi H**, Lee H. Factors Associated Bronchiectasis in Korea: A National Database Study. *Ann Transl Med* 2020;8:1350.
31. **Choi H**, Ryu J, Kim Y, Yang B, Hwangbo B, Kong SY, Sim YS, Park HY, Ra SW, Oh YM, Moon JY, Kim TH, Kim SH, Sohn JW, Yoon HJ, Lee H. Incidence of Bronchiectasis concerning Tuberculosis Epidemiology and Other Ecological Factors: A Korean National Cohort Study. *ERJ Open Res* 2020;6:00097-2020.
32. **Choi H**, Lee H, Ryu J, Chung SJ, Park DW, Sohn JW, Yoon HJ, Kim SH. Bronchiectasis and Increased Mortality in Patients with Corticosteroid-Dependent Severe Asthma: a nationwide population study. *Ther Adv Respir Dis* 2020;14.
33. **Choi H**, Ko Y, Lee CY. Pro-cathepsin D as a diagnostic marker in differentiating malignant from benign pleural effusion: a retrospective cohort study. *BMC Cancer* 2020;20:825.
34. Lee H, Sohn JW, Sim YS, Shin TR, Kim DG, **Choi H**. Outcomes of Extended Duration Therapy for Drug-Susceptible Cavitary Pulmonary Tuberculosis. *Ann Transl Med* 2020;8:346.
35. Yang B, **Choi H**, Chung SJ, Shin B, Lee H, Park HY. Impact of Bronchiectasis on Postoperative Pulmonary Complications after Extra-pulmonary Surgery in Patients with Airflow Limitation. *J Korean Med Sci* 2020;35:e80.
36. Lee H, **Choi H**, Sim YS, Park S, Kim WJ, Yoo KH, Lee SJ, Kim TH, Yang B, Jeong I, Um SJ, Kim DK, Lee JH, Kwon BS, Cho YJ, Park HY, Lee CH, Rhee CK, Lee SH, Na

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37. Yang B, **Choi H**, Lim JH, Park HY, Kang D, Cho J, Lee JS, Lee SW, Oh YM, Moon JY, Kim SH, Kim TH, Sohn JW, Yoon HJ, Lee H. The disease burden of bronchiectasis in comparison with chronic obstructive pulmonary disease: a national database study in Korea. *Ann Transl Med* 2019;7:770.
38. Yang B, **Choi H**, Kim SH, Yoon HJ, Lee H. How will nanotechnology lead to better control of asthma? *Ann Transl Med* 2019;7:515.
39. **Choi H**, Ko UW, Lee H, Hong SB, Chung CR. Improved survival rates in patients with H1N1 acute respiratory failure in Korea between 2009 and 2016. *PLoS One* 2019;14:e0223323.
40. **Choi H**, Yang B, Nam H, Kyoung DS, Sim YS, Park HY, Lee JS, Lee SW, Oh YM, Ra SW, Kim SH, Sohn JW, Yoon HJ, Lee H. Population-based prevalence of bronchiectasis and associated comorbidities in South Korea. *Eur Respir J* 2019;54:1900194.
41. **Choi H**, Shin B, Yoo H, Suh GY, Cho JH, Kim HK, Choi YS, Kim J, Zo JI, Shim YM, Jeon K. Early corticosteroid treatment for postoperative acute lung injury after lung cancer surgery. *Ther Adv Respir Dis* 2019;13:1753466619840256.
42. **Choi H**, Lee H, Jeon K, Suh GY, Shin S, Kim HK, Kim K, Jeong D, Kim H. Factors affecting surgical resection and treatment outcomes in patients with pulmonary mucormycosis. *J Thorac Dis* 2019;11:892.
43. **Choi H**, Cho JH, Kim HK, Choi YS, Kim J, Zo JI, Shim YM, Jeon K. Prevalence and clinical course of postoperative acute lung injury after esophagectomy for esophageal cancer. *J Thorac Dis* 2019;11:200.
44. Kim S, **Choi H**, Jang YJ, Park SH, Lee H. Prevalence of and factors related to latent tuberculous infection among all employees in a referral hospital. *Int J Tuberc Lung Dis* 2018;22:1329.
45. **Choi H**, Jhun BW, Kim SY, Kim DH, Lee H, Jeon K, Kwon OJ, Huh HJ, Ki CS, Lee NY, Shin SJ, Daley CL, Koh WJ. Treatment outcomes of macrolide-susceptible *Mycobacterium abscessus* lung disease. *Diagn Microbiol Infect Dis* 2018;90:293.
46. **Choi H**, Lee H, Jeong SH, Um SW, Kwon OJ, Kim H. Pulmonary actinomycosis mimicking lung cancer on positron emission tomography. *Ann Thorac Med* 2017;12:121.
47. **Choi H**, Kim SY, Lee H, Jhun BW, Park HY, Jeon K, Kim DH, Huh HJ, Ki CS, Lee NY, Lee SH, Shin SJ, Daley CL, Koh WJ. Clinical Characteristics and Treatment Outcomes of Patients with Macrolide-Resistant *Mycobacterium massiliense* Lung Disease. *Antimicrob Agents Chemother* 2017;61.
48. **Choi H**, Kim SY, Kim DH, Huh HJ, Ki CS, Lee NY, Lee SH, Shin S, Shin SJ, Daley CL, Koh WJ. Clinical Characteristics and Treatment Outcomes of Patients with Acquired Macrolide-Resistant *Mycobacterium abscessus* Lung Disease. *Antimicrob Agents Chemother* 2017;61.
49. **Choi H**, Chon HR, Kim K, Kim S, Oh KJ, Jeong SH, Jung WJ, Shin B, Jhun BW, Lee H, Park HY, Koh WJ. Clinical and Laboratory Differences between Lymphocyte- and Neutrophil-Predominant Pleural Tuberculosis. *PLoS One* 2016;11:e0165428.
50. **Choi H**, Chang J, Shin HJ, Park CK, Oh IJ, Kim KS, Kim YC. Clinically beneficial continued treatment with gefitinib after asymptomatic progression of lung adenocarcinoma. *Thorac Cancer* 2015;6:224.