



John Abisheganaden Arputhan

Head and Senior Consultant, Department of Respiratory & Critical Care Medicine, TTSH

Clinical Associate Professor, YLL School of Medicine, NUS

Associate Professor, LKCMedicine, NTU

Research Interests:

- Obstructive Airways Disease (Asthma, COPD, Bronchiectasis)
- Lung Cancer
- Pneumonia, Covid-19
- Obstructive Sleep Apnoea
- Respiratory Disease Management
- AI & Population Health

Email: john_abisheganaden@ttsh.com.sg

Biography

Dr Abisheganaden graduated MBBS (NUS) in 1989. He pursued advanced Specialist Training in Respiratory Medicine at Tan Tock Seng Hospital (TTSH), where he is currently a Senior Consultant Respiratory Physician & Head of Department. He is active as a clinician, teacher and researcher, with special interests in obstructive airway diseases, obstructive sleep apnea (OSA), Respiratory Disease management, lung Cancer and AI & Population Health management. He has more than 80 publications both in local and international peer-reviewed journals. He has also co-authored several book chapters on clinical asthma, and another on Radiological Images in Medicine.

Selected Publications

- Lee CP, Abisheganaden JA. **A Brief History of the Biology of Sleep.** *Ann Acad Med Singapore.* 2016. 45 (9):413-415.
- Phua CK, Sim WY, Sen Tee K, Lew SJ, Lim AY, Tai DY, Goh SK, Kor AC, Ng AW, Abisheganaden JA, Verma A. **Evaluation of Pulmonary Nodules in Asian Population.** *J Thorac Dis.* 2016; 8(5):950-7.
- Verma A, Phua CK, Sim WY, Algosio RE, Tee KS, Lew SJ, Lim AY, Goh SK, Tai DY, Kor AC, Ho B, Abisheganaden JA. **Pleural LDH as a Prognostic Marker in Adenocarcinoma Lung with Malignant Pleural Effusion.** *Medicine (Baltimore).* 2016; 95(26):e3996.
- Abisheganaden JA, Verma A, Dagaonkar RS, Light RW. **An Observational Study Evaluating the Performance of LENT Score in the Selected Population of Malignant Pleural Effusion from Lung Adenocarcinoma in Singapore.** *Respiration.* 2018; 96(4):308-313.
- Mac Aogáin M, Chandrasekaran R, Lim AYH, Low TB, Tan GL, Hassan T, Ong TH, Hui Qi Ng A, Bertrand D, Koh JY, Pang SL, Lee ZY, Gwee XW, Martinus C, Sio YY, Matta SA, Chew FT, Keir HR, Connolly JE, Abisheganaden JA, Koh MS, Nagarajan N, Chalmers JD, Chotirmall SH. **Immunological Corollary of the Pulmonary Mycobiome in Bronchiectasis: the CAMEB Study.** *Eur Respir J.* 2018; 52(1):1800766.

- Prabhakaran L, Yap CW, Neo LP, Gan CC, Tham LM, Wong WM, Abisheganaden JA, Lim TK. **Effectiveness of the eCARE Programme: A Short Message Service (SMS) for Asthma Monitoring.** *Ann Acad Med Singapore.* 2018; 47 (6):233-236.
- Lim AYH, Chotirmall SH, Fok ETK, Verma A, De PP, Goh SK, Puah SH, Goh DEL, Abisheganaden JA. **Profiling Non-tuberculous Mycobacteria in an Asian Setting: Characteristics and Clinical Outcomes of Hospitalized Patients in Singapore.** *BMC Pulm Med.* 2018; 18 (1):85.
- Verma A, Goh SK, Tai DYH, Kor AC, Soo CI, Seow DGF, Sein ZNN, Samol J, Chopra A, Abisheganaden JA. **Outcome of Advanced Lung Cancer with Central Airway Obstruction versus without Central Airway Obstruction.** *ERJ Open Res.* 2018; 4(2):00173-2017.
- Tran TT, Vidailiac C, Yu H, Yong VFL, Roizman D, Chandrasekaran R, Lim AYH, Low TB, Tan GL, Abisheganaden JA, Koh MS, Teo J, Chotirmall SH, Hadinoto K. **A New Therapeutic Avenue for Bronchiectasis: Dry Powder Inhaler of Ciprofloxacin Nanoplex Exhibits Superior Ex Vivo Mucus Permeability and Antibacterial Efficacy to its Native Ciprofloxacin Counterpart.** *Int J Pharm.* 2018; 547(1-2):368-376.
- Verma A, Goh SK, Tai DYH, Kor AC, Abisheganaden JA, Sein ZNN, Yap WS, Ng AWK. **Outcome Differences between Recanalized Malignant Central Airway Obstruction from Endoluminal Disease versus Extrinsic Compression.** *Lasers Med Sci.* 2019; 34(5):955-962.
- Mac Aogáin M, Tiew PY, Lim AYH, Low TB, Tan GL, Hassan T, Ong TH, Pang SL, Lee ZY, Gwee XW, Martinus C, Sio YY, Matta SA, Ong TC, Tiong YS, Wong KN, Narayanan S, Au VB, Marlier D, Keir HR, Tee A, Abisheganaden JA, Koh MS, Wang Y, Connolly JE, Chew FT, Chalmers JD, Chotirmall SH. **Distinct "Immunoallertypes" of Disease and High Frequencies of Sensitization in Non-Cystic Fibrosis Bronchiectasis.** *Am J Respir Crit Care Med.* 2019; 199(7):842-853.
- Lee CP, Kushida CA, Abisheganaden JA. **Epidemiological and Pathophysiological Evidence Supporting Links between Obstructive Sleep Apnoea and Type 2 Diabetes Mellitus.** *Singapore Med J.* 2019; 60 (2):54-56. doi: 10.11622/smedj.2019015
- Tiew PY, Ko FWS, Pang SL, Matta SA, Sio YY, Poh ME, Lau KJX, Mac Aogáin M, Jaggi TK, Ivan FX, Gaultier NE, Uchida A, Drautz-Moses DI, Xu H, Koh MS, Hui DSC, Tee A, Abisheganaden JA, Schuster SC, Chew FT, Chotirmall SH. **Environmental Fungal Sensitisation Associates with Poorer Clinical Outcomes in COPD.** *Eur Respir J.* 2020; 56(2):2000418.
- Tiew PY, Ko FWS, Narayana JK, Poh ME, Xu H, Neo HY, Loh LC, Ong CK, Mac Aogáin M, Tan JHY, Kamaruddin NH, Sim GJH, Lapperre TS, Koh MS, Hui DSC, Abisheganaden JA, Tee A, Tsaneva-Atanasova K, Chotirmall SH. **"High-Risk" Clinical and Inflammatory Clusters in COPD of Chinese Descent.** *Chest.* 2020; 158(1):145-156.
- Chotirmall SH, Wang LF, Abisheganaden JA. **Letter from Singapore: The Clinical and Research Response to COVID-19.** *Respirology.* 2020; 17:10.1111/resp.13929.

Notable Research Awards & Grants From Past 5 Years

Name of Awards & Grants	Year Obtained
Ministry of Education (MOE) Academic Research Fund (AcRF) for "Inflammatory, Infectious and Immune perturbation in very early chronic obstructive pulmonary disease (COPD)"	2016
National Medical Research Council (NMRC) Covid-19 Grant for "Lung Organoids: A tool of the 4 th industrial revolution to study Covid-19 pathogenesis"	2020