

Publikationsliste

Prof. Dr. med. Karl-Josef Franke
Chefarzt der Lungenklinik, Klinikum Siegen

1. Yayan J, Rasche K, **Franke KJ**, Windisch W, Berger M. FDG-PET-CT as an early detection method for tuberculosis: a systematic review and meta-analysis. BMC Public Health. 2024 Jul 29;24(1):2022. doi: 10.1186/s12889-024-19495-6. PMID: 39075378; PMCID: PMC11285570.
2. Yayan J, **Franke KJ**, Berger M, Windisch W, Rasche K. Early detection of tuberculosis: a systematic review. Pneumonia (Nathan). 2024 Jul 5;16(1):11. doi: 10.1186/s41479-024-00133-z. PMID: 38965640; PMCID: PMC11225244.
3. Yayan J, Saleh D, **Franke KJ**. Potential association between COVID-19 infections and the declining incidence of lung cancers. J Infect Public Health. 2024 Jul;17(7):102458. doi: 10.1016/j.jiph.2024.05.046. Epub 2024 May 27. PMID: 38823085.
4. Yayan J, **Franke KJ**, Biancosino C, Rasche K. Comparative systematic review on the safety of e-cigarettes and conventional cigarettes. Food Chem Toxicol. 2024 Mar;185:114507. doi: 10.1016/j.fct.2024.114507. Epub 2024 Feb 6. PMID: 38331086.
5. Yayan J, **Franke KJ**, Berger M, Windisch W, Rasche K. Adhesion, metastasis, and inhibition of cancer cells: a comprehensive review. Mol Biol Rep. 2024 Jan 22;51(1):165. doi: 10.1007/s11033-023-08920-5. PMID: 38252369; PMCID: PMC10803487.
6. Sgarbossa T, Lenga P, Stanzel F, Holland A, Grah C, Gesierich W, Gebhardt A, Ficker J, Eggeling S, Andreas S, Schmidt B, Eisenmann S, Schwick B, **Franke KJ**, Fertl A, Witzenrath M, Hübner RH. Assessment of efficacy and safety of endoscopic lung volume reduction with one-way valves in patients with a very low FEV₁. ERJ Open Res. 2023 Aug 21;9(4):00190-2023. doi: 10.1183/23120541.00190-2023. PMID: 37609599; PMCID: PMC10440652.
7. **Franke KJ**, Schroeder M, Domanski U, Dewald B, Nilius G. Non-invasive Ventilation: Effect of Vented and Non-vented Exhalation Systems on Inspiratory CO₂ and O₂ Concentrations, Ventilation, and Breathing Pattern. Lung. 2022 Apr;200(2):251-260. doi: 10.1007/s00408-022-00520-7. Epub 2022 Mar 4. PMID: 35246760.
8. Pinkham MI, Domanski U, **Franke KJ**, Hartmann J, Schroeder M, Williams T, Nilius G, Tatkov S. Effect of respiratory rate and size of cannula on pressure and dead-space clearance during nasal high flow in patients with COPD and acute respiratory failure. J Appl Physiol (1985). 2022 Feb 1;132(2):553-563. doi: 10.1152/jappphysiol.00769.2021. Epub 2022 Jan 27. PMID: 35085029; PMCID: PMC8836745.

- 9.** Yayan J, Bald M, **Franke KJ**. No Independent Influence of Statins on the Chronic Obstructive Pulmonary Disease Exacerbation Rate: A Cohort Observation Study Over 10 Years. *Int J Gen Med*. 2021 Jun 28;14:2883-2892. doi: 10.2147/IJGM.S309647. PMID: 34234518; PMCID: PMC8254092.
- 10.** **Franke KJ**, Domanski U, Schröder M, Nilius G. Effects of endobronchial coils for endoscopic lung volume reduction on sleep in COPD patients with advanced pulmonary emphysema. *Sleep Breath*. 2021 Jun;25(2):727-735. doi: 10.1007/s11325-020-02176-0. Epub 2020 Aug 26. PMID: 32845475.
- 11.** Nilius G, Schroeder M, Domanski U, Tietze A, Schäfer T, **Franke KJ**. Telemedicine Improves Continuous Positive Airway Pressure Adherence in Stroke Patients with Obstructive Sleep Apnea in a Randomized Trial. *Respiration*. 2019;98(5):410-420. doi: 10.1159/000501656. Epub 2019 Aug 7. PMID: 31390641.
- 12.** Stump A, Schröder M, Domanski U, **Franke KJ**, Nilius G. Deutsche Übersetzung und sprachliche Validierung des multidimensionalen Dyspnoe-Profiles (MDP) [German Translation and Linguistic Validation of the Multidimensional Dyspnea Profile (MDP)]. *Pneumologie*. 2019 Aug;73(8):470-473. German. doi: 10.1055/a-0861-1516. Epub 2019 Jun 17. PMID: 31207660.
- 13.** Nilius G, Domanski U, Schroeder M, Woehrlé H, Graml A, **Franke KJ**. Mask humidity during CPAP: influence of ambient temperature, heated humidification and heated tubing. *Nat Sci Sleep*. 2018 May 1;10:135-142. doi: 10.2147/NSS.S158856. PMID: 29750062; PMCID: PMC5935083.
- 14.** Nilius G, Domanski U, Schroeder M, **Franke KJ**, Hogrebe A, Margarit L, Stoica M, d'Ortho MP. A randomized controlled trial to validate the Alice PDX ambulatory device. *Nat Sci Sleep*. 2017 Jun 6;9:171-180. doi: 10.2147/NSS.S133789. PMID: 28652835; PMCID: PMC5476768.
- 15.** Nilius G, Katamadze N, Domanski U, Schroeder M, **Franke KJ**. Non-invasive ventilation with intelligent volume-assured pressure support versus pressure-controlled ventilation: effects on the respiratory event rate and sleep quality in COPD with chronic hypercapnia. *Int J Chron Obstruct Pulmon Dis*. 2017 Mar 30;12:1039-1045. doi: 10.2147/COPD.S126970. PMID: 28408814; PMCID: PMC5383083.
- 16.** **Franke KJ**, Domanski U, Schroeder M, Jansen V, Artmann F, Weber U, Ettler R, Nilius G. Telemonitoring of home exercise cycle training in patients with COPD. *Int J Chron Obstruct Pulmon Dis*. 2016 Nov 11;11:2821-2829. doi: 10.2147/COPD.S114181. PMID: 27956829; PMCID: PMC5113934.
- 17.** Möller W, Feng S, Domanski U, **Franke KJ**, Celik G, Bartenstein P, Becker S, Meyer G, Schmid O, Eickelberg O, Tatkov S, Nilius G. Nasal high flow reduces dead space. *J Appl Physiol (1985)*. 2017 Jan 1;122(1):191-197. doi: 10.1152/jappphysiol.00584.2016. Epub 2016 Nov 17. PMID: 27856714; PMCID: PMC5283847.

- 18.** Fricke K, Tatkov S, Domanski U, **Franke KJ**, Nilius G, Schneider H. Nasal high flow reduces hypercapnia by clearance of anatomical dead space in a COPD patient. *Respir Med Case Rep.* 2016 Aug 26;19:115-7. doi: 10.1016/j.rmcr.2016.08.010. PMID: 27668173; PMCID: PMC5024502.
- 19.** **Franke KJ**, Linzenbold W, Nuessle D, Enderle M, Boesmueller H, Nilius G, Hetzel J. A New Tool for Transbronchial Cryobiopsies in the Lung: An Experimental Feasibility ex vivo Study. *Respiration.* 2016;91(3):228-34. doi: 10.1159/000443990. Epub 2016 Feb 23. PMID: 26901791.
- 20.** **Franke KJ**, Hein M, Domanski U, Nilius G, Schroeder M, Wohlschlaeger J, Theegarten D. Transbronchial Catheter Aspiration and Transbronchial Needle Aspiration in the Diagnostic Workup of Peripheral Lung Lesions. *Lung.* 2015 Oct;193(5):767-72. doi: 10.1007/s00408-015-9763-1. Epub 2015 Jul 9. PMID: 26156311.
- 21.** Nilius G, **Franke KJ**, Domanski U, Schroeder M, Rühle KH. Effect of APAP and heated humidification with a heated breathing tube on adherence, quality of life, and nasopharyngeal complaints. *Sleep Breath.* 2016 Mar;20(1):43-9. doi: 10.1007/s11325-015-1182-2. Epub 2015 May 10. PMID: 25957615.
- 22.** Rohde GG, Koch A, Welte T; ABACOPD study group. Randomized double blind placebo-controlled study to demonstrate that antibiotics are not needed in moderate acute exacerbations of COPD--the ABACOPD study. *BMC Pulm Med.* 2015 Jan 27;15:5. doi: 10.1186/1471-2466-15-5. PMID: 25623589; PMCID: PMC4350292.
- 23.** **Franke KJ**, Nilius G, Domanski U, Rühle KH. Unilaterale Lungenvolumenreduktion mit intrabronchialen Ventilen nach Selektion mittels endoskopischer Kollateralventilationsmessung [Unilateral reduction of lung volume by application of intrabronchial valves on patients selected after endoscopic collateral ventilation assessment]. *Pneumologie.* 2014 Feb;68(2):100-5. German. doi: 10.1055/s-0033-1359025. Epub 2013 Dec 16. PMID: 24343242.
- 24.** Rühle KH, **Franke KJ**, Domanski U, Schröder M, Nilius G. Neuere Entwicklungen der X-PAP-Therapie für obstruktive und zentrale schlafbezogene Atmungsstörungen [New developments in X-PAP therapy for obstructive and central sleep-disordered breathing]. *Pneumologie.* 2013 Oct;67(10):551-9; quiz 560-1. German. doi: 10.1055/s-0033-1344494. Epub 2013 Oct 10. PMID: 24113886.
- 25.** **Franke KJ**, Nilius G, Rühle KH, Enderle MD, Linzenbold W, von Weyhern CH. The cryo-needle: a new tool for histological biopsies. A feasibility study. *Lung.* 2013 Dec;191(6):611-7. doi: 10.1007/s00408-013-9502-4. Epub 2013 Aug 30. PMID: 23990134.

- 26.** Rühle KH, **Franke KJ**, Domanski U, Schröder M, Nilius G. Telemonitoring von Fahrrad-Heimtraining bei Patienten mit obstruktiver Schlafapnoe [Telemonitoring of bike exercise training in patients with obstructive sleep apnoea]. *Pneumologie*. 2013 Jun;67(6):321-6. German. doi: 10.1055/s-0033-1344151. Epub 2013 May 22. PMID: 23700134.
- 27.** Nilius G, **Franke KJ**, Domanski U, Rühle KH, Kirkness JP, Schneider H. Effects of nasal insufflation on arterial gas exchange and breathing pattern in patients with chronic obstructive pulmonary disease and hypercapnic respiratory failure. *Adv Exp Med Biol*. 2013;755:27-34. doi: 10.1007/978-94-007-4546-9_4. PMID: 22826046.
- 28.** Rühle KH, Kuhtin O, Domanski U, **Franke KJ**, Nilius G. Erfassung der Tagesschläfrigkeit mittels Epworth-Schläfrigkeits-Skala und einem 3-Item-Fragebogen bei obstruktiver Schlafapnoe [Detection of daytime sleepiness using Epworth Sleepiness Scale and a 3-item questionnaire in obstructive sleep apnea]. *Pneumologie*. 2012 Mar;66(3):184-7. German. doi: 10.1055/s-0031-1291634. Epub 2012 Jan 27. PMID: 22287055.
- 29.** **Franke KJ**, Bruckner C, Szyrach M, Rühle KH, Nilius G, Theegarten D. The contribution of endobronchial ultrasound-guided forceps biopsy in the diagnostic workup of unexplained mediastinal and hilar lymphadenopathy. *Lung*. 2012 Apr;190(2):227-32. doi: 10.1007/s00408-011-9341-0. Epub 2011 Oct 22. PMID: 22037795.
- 30.** **Franke KJ**, Bruckner C, Nilius G, Rühle KH. Investigation of the flexibility of bronchoscopes. *Eur J Med Res*. 2011 Sep 12;16(9):420-4. doi: 10.1186/2047-783x-16-9-420. PMID: 22024444; PMCID: PMC3352149.
- 31.** Rühle KH, Domanski U, **Franke KJ**, Bloch M, Nilius G. Telemedizin und Training bei COPD [Telemedicine and training in COPD]. *Pneumologie*. 2011 Oct;65(10):596-601. German. doi: 10.1055/s-0030-1256738. Epub 2011 Oct 20. PMID: 22015486.
- 32.** Hetzel J, Eberhardt R, Herth FJ, Petermann C, Reichle G, Freitag L, Dobbertin I, **Franke KJ**, Stanzel F, Beyer T, Möller P, Fritz P, Ott G, Schnabel PA, Kastendieck H, Lang W, Morresi-Hauf AT, Szyrach MN, Muche R, Shah PL, Babiak A, Hetzel M. Cryobiopsy increases the diagnostic yield of endobronchial biopsy: a multicentre trial. *Eur Respir J*. 2012 Mar;39(3):685-90. doi: 10.1183/09031936.00033011. Epub 2011 Aug 18. PMID: 21852332.
- 33.** Rühle KH, **Franke KJ**, Domanski U, Nilius G. Quality of life, compliance, sleep and nasopharyngeal side effects during CPAP therapy with and without controlled heated humidification. *Sleep Breath*. 2011 Sep;15(3):479-85. doi: 10.1007/s11325-010-0363-2. Epub 2010 May 26. PMID: 20503074.

34. Franke KJ, Nilius G, Morgenstern S, Ruhle KH. Removal of the tracheal tube after prolonged mechanical ventilation: assessment of risk by oscillatory impedance. *Respiration*. 2011;81(2):118-23. doi: 10.1159/000314073. Epub 2010 Apr 27. PMID: 20424425.

35. Franke KJ, Nilius G, Rühle KH. Kryoextraktion bei unterschiedlichen Formen einer Atemwegsobstruktion: Vier exemplarische Fälle [Use of cryoextraction in different types of airway obstruction]. *Pneumologie*. 2010 Jun;64(6):387-9. German. doi: 10.1055/s-0029-1244046. Epub 2010 Apr 13. PMID: 20391320.

36. Rühle KH, Domanski U, Schröder M, **Franke KJ**, Nilius G. Warmluftbefeuchtung unter CPAP mit und ohne Schlauchisolation [Heated humidification during CPAP with and without tube insulation]. *Pneumologie*. 2010 May;64(5):316-9. German. doi: 10.1055/s-0029-1244073. Epub 2010 Apr 12. PMID: 20387197.

37. Franke KJ, Theegarten D, Hann von Weyhern C, Nilius G, Brueckner C, Hetzel J, Hetzel M, Ruhle KH, Enderle MD, Szyrach MN. Prospective controlled animal study on biopsy sampling with new flexible cryoprobes versus forceps: evaluation of biopsy size, histological quality and bleeding risk. *Respiration*. 2010;80(2):127-32. doi: 10.1159/000287251. Epub 2010 Feb 17. PMID: 20160432.

38. Nilius G, Burian S, **Franke KJ**, Van't Hoog T, Domanski U, Rühle KH. Effekte einer Atemzyklus-gesteuerten Druckmodulation (Flexline) auf den AHI bei Überdrucktherapie von Patienten mit einem OSAS [Effects of a breath-triggered modulation of positive airway pressure ventilation on the AHI from patients with obstructive sleep apnoea]. *Pneumologie*. 2009 Aug;63(8):433-8. German. doi: 10.1055/s-0029-1214817. Epub 2009 Aug 7. PMID: 19670102.

39. Franke KJ, Szyrach M, Nilius G, Hetzel J, Hetzel M, Rühle KH, Enderle MD. Experimental study on biopsy sampling using new flexible cryoprobes: influence of activation time, probe size, tissue consistency, and contact pressure of the probe on the size of the biopsy specimen. *Lung*. 2009 Aug;187(4):253-9. doi: 10.1007/s00408-009-9156-4. Epub 2009 Jun 23. PMID: 19548030.

40. Rühle KH, Bloch M, **Franke KJ**, Nilius G. Telemonitoring von Armergometer-Training bei COPD-Patienten. Eine Pilotstudie [Telemonitoring of arm ergometric training in COPD patients. A pilot study]. *Pneumologie*. 2009 Jun;63(6):314-8. German. doi: 10.1055/s-0028-1119701. Epub 2009 Mar 16. PMID: 19291617.

41. Franke KJ, Nilius G, Ruhle KH. Transbronchial catheter aspiration compared to forceps biopsy in the diagnosis of peripheral lung cancer. *Eur J Med Res*. 2009 Jan 28;14(1):13-7. doi: 10.1186/2047-783x-14-1-13. PMID: 19258205; PMCID: PMC3352199.

- 42.** Rühle KH, **Franke KJ**, Morgenstern S, Nilius G. Spiroergometrie bei einem Patienten mit Sarkoidose II. Eine aussergewöhnliche Kombination von Funktionsstörungen [Exercise testing by spiroergometry in a patient with sarcoidosis stage II. An unusual combination of functional impairments]. *Pneumologie*. 2009 Feb;63(2):80-5. German. doi: 10.1055/s-0028-1119434. Epub 2009 Feb 13. PMID: 19219768.
- 43.** Rühle KH, **Franke KJ**, Nilius G. Sekundenschlaf, Schläfrigkeit und Verkehrstüchtigkeit beim Schlafapnoe-Syndrom [Microsleep, sleepiness and driving performance in patients with sleep apnoea syndrome]. *Pneumologie*. 2008 Oct;62(10):595-601. German. doi: 10.1055/s-2008-1038203. Epub 2008 Aug 18. PMID: 18711696.
- 44.** Nilius G, Domanski U, **Franke KJ**, Rühle KH. Impact of a controlled heated breathing tube humidifier on sleep quality during CPAP therapy in a cool sleeping environment. *Eur Respir J*. 2008 Apr;31(4):830-6. doi: 10.1183/09031936.00161806. Epub 2008 Jan 9. PMID: 18184678.
- 45.** Rühle KH, Domanski U, **Franke KJ**, Nilius G. Untersuchungen zur Leckage-Messung von automatischen CPAP-Geräten [Studies of leakage measurements of automatic CPAP-devices]. *Pneumologie*. 2007 Apr;61(4):213-8. German. doi: 10.1055/s-2007-959155. PMID: 17455133.
- 46.** Nilius G, **Franke KJ**, Domanski U, Rühle KH. Beschwerden an den oberen Atemwegen bei obstruktiver Schlafapnoe - Auswirkungen der CPAP-Therapie [Upper airway complaints of patients with obstructive sleep apnea - effect of CPAP]. *Pneumologie*. 2007 Jan;61(1):15-9. German. doi: 10.1055/s-2006-954966. PMID: 17253207.
- 47.** **Franke KJ**, Nilius G, Rühle KH. Verbreitung zytologischer Verfahren in der bronchoskopischen Diagnostik peripherer pulmonaler Herde [Frequency of cytological procedures in diagnostic bronchoscopy of peripheral pulmonary modules and masses]. *Pneumologie*. 2006 Nov;60(11):663-6. German. doi: 10.1055/s-2006-944263. PMID: 17109263.
- 48.** **Franke KJ**, Nilius G, Rühle KH. Bronchoskopische Diagnostik des peripheren Lungenherdes [Bronchoscopic diagnosis of peripheral pulmonary foci]. *Dtsch Med Wochenschr*. 2006 Oct 6;131(40):2229-33. German. doi: 10.1055/s-2006-951358. PMID: 17021993.
- 49.** **Franke KJ**, Nilius G, Rühle KH. Transbronchiale Biopsie im Vergleich zur Katheteraspiration bei peripheren Lungenherden [Transbronchial biopsy in comparison with catheter aspiration in the diagnosis of peripheral pulmonary nodules]. *Pneumologie*. 2006 Jan;60(1):7-10. German. doi: 10.1055/s-2005-919107. PMID: 16429388.

50. Franke KJ, Nilius G, Rühle KH. Kryotherapie eines endobronchialen Lipoms [Cryorecanalization of an endobronchial lipoma]. *Pneumologie*. 2005 Oct;59(10):685-8. German. doi: 10.1055/s-2005-915564. PMID: 16222580.