TEXAS STATE VITA

I. ACADEMIC/PROFESSIONAL BACKGROUND

A. Name: ARZU ARI, Ph.D, RRT, PT, CPFT, FAARC, FCCP **Title:** Regent's Professor & ADR

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
Ph.D.	2005	Georgia State University	Educational Policy/ Higher Education Administration	Identifying variables that predict successful respiratory care education programs.
MS	2001	Georgia State University	Allied Health	Performance comparison of nebulizer designs: constant-output, breath-enhanced, and dosimetric.
MS	1996	Istanbul University	Public Health	The effect of a pulmonary rehabilitation program on pulmonary function parameters in COPD patients with moderate and severe obstruction.
AS	1997	California College for Health Sciences	Respiratory Therapy	
BS	1993	Hacettepe University	Physical Therapy and Rehabilitation	

C. University Experience

Position	*University*	*Dates*
Associate Dean for Research	Texas State University	September 2020 – Present
Regent's Professor with Tenure	Texas State University	November 2023 – Present
Professor	Texas State University	September 2017 – Oct 2020
Associate Professor with Tenure	Georgia State University	March 2011 – August 2017
Assistant Professor	Georgia State University	August 2005 – March 2011
Clinical Instructor	Georgia State University	August 2001 – July 2005
Graduate Research Assistant	Georgia State University	January 2000 – August 2001

D. Relevant Professional Experience

Position	*Entity*	*Dates*
Chair	International Education Recognition System	December 2020 – Present
Assistant Manager	American Hospital Department of Respiratory Care Istanbul, Turkey	June 1999 – July 2001
Education Coordinator	American Hospital Department of Respiratory Care Istanbul, Turkey	October 1997 – May 1999
Respiratory Therapist	American Hospital Department of Respiratory Care Istanbul, Turkey	October 1995 – Sept. 1997
Physical Therapist/ Respiratory Specialist	Florence Nightingale Hospital Department of Physical Therapy Istanbul, Turkey	July 1993 – Sept. 1995

E. Other Professional Credentials (licensure, certification, etc.)

Licensure

Licensed Respiratory Therapist, State of Texas, 2018- Present, License Number: 2001568
Licensed Respiratory Therapist, State of Georgia, 2001- 2018, License Number: 005127.

Certifications

Certified Cardiopulmonary Resuscitation (CPR), American Heart Association, 2001 – Present.
Certified Advanced Cardiac Life Support (ACLS), American Heart Association, 2001 – Present.
Registered Respiratory Therapist (RRT), National Board for Respiratory Care (NBRC), 2008
Certified Respiratory Therapist (CRT), National Board for Respiratory Care (NBRC), 1998.
Certified Pulmonary Function Technologist (CPFT), NBRC, 1998.

II. TEACHING

A. Teaching Honors and Awards:

Mariel M. Muir Mentoring Award, Texas State University, 14 November 2024.

University Distinguished Professor Award, Texas State University, 7 November 2023.

2023 Honorary Professor of International Affairs, Texas State University, 20 January 2023.

COARC Graduate Student Research Award, Coalition of Accreditation for Respiratory Care (CoARC). It is given to my student, Anita Respondek for her study titled "Effect of a clinical simulation technology on the success of students on the national board for respiratory care exam" 14 July 2023

COARC Graduate Student Research Award, Coalition of Accreditation for Respiratory Care (CoARC). It is given to my student, Tiffany Leopard for her research titled "The impact of a risk assessment tool, type, and rotation of mask on pressure ulcers on adult patients in the intensive care unit requiring noninvasive ventilation." 1 July 2020

Specialty Section Practitioner of the Year in Education, American Association for Respiratory Care, 3 December 2020.

2020 Teaching Award of Honor, The Texas State Alumni Association. 14 May 2020.

College Achievement Award for Excellence in Teaching, College of Health Professions, Texas State University, 20 August 2019.

COARC Graduate Student Research Award, Coalition of Accreditation for Respiratory Care (CoARC). It is given to my student, Jessica Overgoner for her project titled "The effect of a high flow nasal cannula titration protocol on patient length of stay in the pediatric population." 7 July 2019.

Runner-Up Award for Excellence in Online Teaching, Texas State University, 7 February 2019.

B. Courses Taught:

Interdisciplinary Courses

SNHP 3500 Introduction to Research Methods (Undergraduate Level Course)
SNHP 6000 Research Methods for Health Professionals (Graduate Level Course)

Graduate Courses

RC 5303 Research Methodology
RC 5305 Respiratory Care Applied Research
RC 5307 Respiratory Care Advanced Seminar
RT 6027 Pulmonary Diseases
RT 6030 Advanced Mechanical Ventilation
RT 7040 Advanced Cardiopulmonary Monitoring
RT 7050 Statistics

Undergraduate Courses

RC 3212 Respiratory Pharmacology
RT 3011 Respiratory Care Procedures I
RT 3012 Respiratory Care Procedures II

RT 3027 Pulmonary Diseases
RT 3040 Mechanical Ventilation
RT 3500 Research Methods and Statistics
RT 4060 Hemodynamic Monitoring
SNHP 3500 Introduction to Research Methods
RT 3050 Clinical Practice I
RT 3051 Clinical Practice II
RT 4051 Clinical Practice IV

Clinical Courses

RC 3333 Clinical Summer I
RC 3333 Clinical Summer II

C. Graduate Theses/Dissertations, Honors Theses, or Exit Committees:

Theses Chaired (14 Graduate Students)

1. *Malak Obaid Alshowi.* Title of Thesis: "Evaluation of aerosol drug delivery techniques in critical pulmonary care" Graduation Date: May 2018

2. *Saeed Alghamdi.* Title of Thesis: "Evaluation of clinical facilities in terms of pedagogical atmosphere, supervisory relationship and roles of clinical instructors in respiratory therapy education" Graduation Date: May 2016.

3. *Fahad Alahmadi.* Title of Thesis: "Perceptions of clinical instructors and respiratory therapy students on effective teaching characteristics of clinical instructors in Saudi Arabian Universities." Graduation Date: December 2015.

4. *Fatemah Sunbul.* Title of Thesis: "Aerosol drug delivery with different types of continuous airway positive pressure (CPAP) to simulated spontaneously breathing neonates." Graduation Date: August 2013.

5. *Bshayer Ramadan Alhamad.* Title of Thesis: "The effect of aerosol delivery devices and administration technique on aerosol deposition in a simulated spontaneously breathing pediatric model with a tracheostomy." Graduation Date: May 2013.

6. *Mahmood Alalwan.* Title of Thesis: "In-vitro evaluation of aerosol drug delivery with or without high flow nasal cannula using pressurized metered-dose inhaler and jet nebulizer in pediatrics." Graduation Date: August 2012.

7. *Huriah Alsultan.* "In-vitro comparison of aerosol drug delivery in pediatrics using the pressurized metered-dose inhaler, jet nebulizer, and vibrating mesh nebulizer." Graduation Date: August 2012.

8. *Abdullah Alquarni.* Title of Thesis: "Efficiency of aerosol therapy through the jet nebulizer, breath-actuated nebulizer and pressurized metered-dose inhaler in spontaneously breathing adults." Graduation Date: December 2011.

9. *Maher Alquaimi.* Title of Thesis: "Aerosol delivery during non-invasive mechanical

ventilation: jet nebulizer, vibrating mesh nebulizer, and pressurized metered-dose inhaler." Graduation Date: December 2011.

10. *Waleed Alzahrani.* Title of Thesis: "Comparison of albuterol delivery between high-frequency oscillatory ventilation and conventional mechanical ventilation, using a pressurized metered-dose inhaler." Graduation Date: December 2010.

11. *Alaa Bugis.* Thesis Title: "The impact of different interfaces on aerosol drug deposition in simulated spontaneously breathing patients with tracheostomy tubes." Graduation Date: December 2010.

12. *Williams Bowers.* Thesis Title: "Aerosol drug delivery through heat moisture exchangers (HMEs)." Graduation Date: August 2010.

13. *Matthew Hart.* Thesis Title: "The effect of aerosol generators on airway resistance and inhaled drug mass in mechanically ventilated patients using heat moisture exchangers (HME)." Graduation Date: August 2009.

14. *Hasan Areabi.* Thesis Title: "The influence of MDI position on aerosol bronchodilator delivery in simulated mechanically ventilated patients." Graduation Date: May 2007.

Theses Committee Member (4 Graduate Students)

1. *Abdullah Alanazi.* Thesis Title: "The prevalence of use, awareness, and beliefs of electronic cigarettes among college-based health care students at a southeastern urban university." Graduation Date: May 2016.

2. *Larissa Sayao.* Thesis Title: "Exhaled nitric oxide as a diagnostic tool for wheezing in preschool children: A diagnostic accuracy study." Federal University of Pernambuco, Recife, Brazil. Graduation Date: May 2015.

3. *Essam Aljamhan.* Thesis Title: "Does alteration in airway resistance affect delivered tidal volume in adult patients receiving high-frequency oscillatory ventilation?" Graduation Date: December 2008.

4. *John England.* Thesis Title: "The effect of compliance changes on delivered volumes in an adult patient ventilated with high-frequency oscillatory ventilation: a bench model." Graduation Date: May 2009.

Ph.D. Dissertation Committee Member (1 Ph.D. students)

1. *Jie Li.* Title of Dissertation: "Enhanced aerosol delivery via high flow high humidity system." Rush University, School of Medicine, Chicago, IL. Graduation Date: December 2019.

Capstone Research Projects (34 Master's Level)

1. *Olivia Marshall:* "Understanding remediation challenges and effective strategies in respiratory care education: Faculty Perspectives" Graduated: December 2024.

2. *Emily Russell:* "The effects of COVID-19 on pulmonary function of the unsuspected patient" Graduated: December 2024.

3. *Anita Respondek:* "Effect of a clinical simulation technology on the success of students on the national board for respiratory care exam." Graduation Date: December 2023

4. *Ashleigh Aguilar:* "Is there any difference in job satisfaction between inpatient and outpatient respiratory therapists?" Graduation Date: December 2023

5. *Chelsea Armendariz:* "A comparison of respiratory care students' perceptions of clinical readiness upon graduation in undergraduate bachelor's and associate degree programs in respiratory care." Graduation Date: December 2023

6. *Tatum Ashley Lane:* Title of Research Project: "Impact of perceived organizational support on the performance of the respiratory care education program." Graduation Date: December 2022.

7. *Joe Lewis:* Title of Research Project: "How does asynchronous video-on-demand education compared to traditional face-to-face education." Graduation Date: December 2022.

8. *Charnette Darrington:* Title of Research Project: "The impact of COVID-19 on students' mindfulness and perceived stress in undergraduate respiratory care students" Graduation Date: December 2022.

9. *Sarah Lisette Boozer:* Title of Research Project: "Perceived organizational support in bachelor and master's degree respiratory care education programs in the US." Graduation Date: December 2022.

10. *Shawn Terry*. Title of Research Project: "Effects of the COVID-19 pandemic on respiratory care student enrollment, retention, and success of the National Board for Respiratory Care Credentialing Examination." Graduation Date: December 2021.

11. *Robin Garcia*. Title of Research Project, "Does the use of a Combivent inhaler improve patient outcomes in adults with COVID-19?" Graduation Date: December 2021.

12. *Chelsea Dallas*. Title of Research Project: "The impact of an AIDET gamulation on comfortability of undergraduated respiratory care students in patient communication." Graduation Date: December 2021.

13. *Afroza Khan*. Title of the Research Project: The impact of interactive chat services on 30-day readmission in patients with COPD: A pilot study. Graduation Date: December 2021.

14. *Genie George.* Title of Research Project: "Effect of airway clearance on pediatric patients with traumatic brain injury." Graduation Date: December 2021.

15. *Theresa Griego.* Title of Research Project: "Analysis of routine pulse oximetry oxygen saturation assessment by a respiratory therapist." Graduation Date: December 2021.

16. *Karen Blain.* Title of Research Project: "Impact of student demographics, prior military service and class start times on academic performance in respiratory care program. Graduation Date: December 2020.

17. *Chucks Ajuzie.* Title of Research Project: "How does Metaneb affect patient outcomes in non-ambulatory clinical settings?" Graduation Date: December 2020.

18. *Tiffany Leopard.* Title of Research Project: "The impact of a risk assessment tool, type, and rotation of mask on pressure ulcers on adult patients in the intensive care unit requiring noninvasive ventilation." Graduation Date: December 2020.

19. *Isabel Chacon.* Title of Research Project: "Identifying the prevalence of sleep deprivation in healthcare personnel." Graduation Date: December 2020.

20. *Shelia Peabody.* Title of Research Project: "Perspectives of respiratory therapists on vaping, EVALI, and lung health." Graduation Date: December 2020.

21. *Gina Lorraine Misiaszek.* Title of Research Project: "The effectiveness of volume-oriented incentive spirometry in post-acute hospitals for the adult population." Graduation Date: December 2020.

22. *Jamesa Ratcliff.* Title of Research Project: "The impact of weight loss, age, gender on pulmonary function and disease symptoms in patients with chronic obstructive pulmonary diseases." Graduation Date: December 2020.

23. *Amanda Kozlozski.* Title of Research Project: "The effect of student demographic and asthma education on school absences and academic performance in children with asthma." Graduation Date: December 2020.

24. *Jessica Long.* Title of Research Project: "Perspectives and clinical knowledge of respiratory therapy students on e-cigarette smoking cessation education programs in the United States." Graduation Date: December 2020.

25. *Jessica Overgoner*. "The Effect of a High Flow Nasal Cannula Titration Protocol on Patient Length of Stay in the Pediatric Population" Graduation Date: December 2019.

26. *Stacy Harris*. Research Project Title: "Impact of pulmonary rehabilitation in quality life, endurance, survival rate and functional impairment of patients with COPD and pulmonary fibrosis." Graduation Date: December 2019.

27. *Kyle Francis*. "The effect of standard jet and breath-actuated nebulizers on aerosol delivery and patient outcomes for asthmatic adult patients in the emergency room." Graduation Date: December 2019.

28. *Duree Davis*. Research Project Title: "What is the impact of pulmonary rehabilitation on patients' readmission in COPD?" Graduation Date: December 2019.

29. *Vincent Showalter*. Research Project Title: "Students' perceived barriers, concerns, and challenges in enrolling the MSRC program at Texas State University." Graduation Date: December 2019.

30. *Abbey Hudgins*. Research Project Title: "Effects of introducing an iNO weaning protocol for neonates in the NICU." Graduation Date: December 2018.

31. *Tiara Flores*. Research Project Title: "Can end-tidal CO2 predict sleep-disordered breathing?" Graduation Date: December 2018.

32. *Jayesh John*. Research Project Title: "Burn specific curriculum for respiratory therapists: A survey of burn centers across America." Graduation Date: December 2018.

33. *Tareq Alotaibi.* Masters Project Title "Effect of studying abroad in smoking initiation among Saudi Students in the United States." Graduation Date: December 2015.

34. *Lynn Hosier*. Masters Project Title: "Lung Changes Before and After the ING Georgia Marathon on Volunteer Amateur Endurance Runners and Walkers." Graduation Date: December 2007.

D. Courses Prepared and Curriculum Development:

RC 5303 Research Methodology
RC 5305 Respiratory Care Applied Research
RC 5307 Respiratory Care Advanced Seminar
RC 5305 Research Methodology
RC 3212 Pharmacology

E. Funded External Teaching Grants and Contracts:

Aerogen Ltd, "Dr. Jim Fink's International Aerosol Medicine Training Program" *Role:* PI, $54,700 *Project Dates:* 7 November 2024 - 1 August 2027

F. Submitted, but not Funded, External Teaching Grants and Contracts:

CHEST Foundation, Training the Next Generation of Respiratory Therapists in the Turkish Republic, $15,000.00. Submitted: March 2023.

G. Funded Internal Teaching Grants and Contracts:

N/A

H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

N/A

I. Other:

N/A

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press)

*1. **Books***

a. Scholarly Monographs (2 Monographs):

Gardenhire D, **Ari A.,** Hess D., Myers T. *A Guide to Aerosol Delivery Devices for Respiratory Therapists*. Dallas, Texas: American Association for Respiratory Care, 3rd edition, 2013.

Ari A., Hess D., Myers T., Rau JL. *A Guide to Aerosol Delivery Devices for Respiratory Therapists*. Dallas, Texas: American Association for Respiratory Care, 2nd edition, 2009.
This book was translated into Chinese, Italian, Turkish, Spanish, and Arabic by physicians and health care professionals abroad.

b. Textbooks:

N/A

c. Edited Books:

N/A

d. Chapters in Books (18 Book Chapters):

1. **Ari A.,** Chapter 8. Aerosol Therapy. *In Fundamental Respiratory Care Support,* Dallas, TX: American Respiratory Care Foundation, 2024.

2. **Ari A.,** Fink JB. Chapter 12. Aerosol Drug Delivery in Pediatrics. In *Neonatal and Pediatric Respiratory Care, 10th edition.* St Louis, Missouri: Mosby Elsevier, 2022.

3. **Ari A.** Chapter 8. Aerosol Therapy. In *Fundamentals of Respiratory Care Support,* Dallas, TX: International Council for Respiratory Care, 2022.

4. **Ari A.,** Fink JB. Aerosol Devices in Respiratory Care. In *Respiratory Care Equipment,* St Louis, Missouri: Mosby Elsevier, 2021.

5. **Ari A.,** Chapter 3. Aerosol Delivery Devices. In *Aerosolized Medications & Inhalation Therapy, 1st edition*, Ankara, Turkey: Turkish Respiratory Society, 2020.

6. Fink JB., **Ari A.** Chapter 40. Aerosol Drug Therapy. In *Egan's Fundamentals of Respiratory, Care 12th edition*. St Louis, Missouri: Mosby Elsevier, 2020.

7. Fink JB., **Ari A.** Chapter 39. Humidity and Bland Aerosol Therapy. In *Egan's Fundamentals of Respiratory Care, 12th edition*. St Louis, Missouri: Mosby Elsevier, 2020.

8. **Ari A.,** Chapter 3. Aerosol Delivery Devices. In *Aerosolized Medications & Inhalation Therapy, 1st edition,* Ankara, Turkey: Turkish Respiratory Society, 2019.

9. **Ari A.,** Fink JB. Chapter 11. Aerosol Drug Delivery in Pediatrics. In *Neonatal and Pediatric Respiratory Care, 10th edition.* St Louis, Missouri: Mosby Elsevier, 2018.

10. **Ari A.,** Fink JB. Aerosol Devices in Respiratory Care. In *Respiratory Care Equipment*, St Louis, Missouri: Mosby Elsevier, 2017.

11. Fink JB., **Ari A.** Chapter 39. Aerosol Drug Therapy. In *Egan's Fundamentals of Respiratory Care, 11th edition*. St Louis, Missouri: Mosby Elsevier, 2016.

12. Fink JB., **Ari A.** Chapter 38. Humidity and Bland Aerosol Therapy. In *Egan's Fundamentals of Respiratory Care, 11th edition*. St Louis, Missouri: Mosby Elsevier, 2016.

13. Fink JB., **Ari A.** Chapter 10.3 Aerosol Drug Delivery to Mechanical Ventilated Patients. In *Aerosols in Medicine,* International Society for Aerosols in Medicine (ISAM), 2015

14. Fink JB., **Ari A.** Chapter 11. Aerosol Drug Delivery in Pediatrics. In *Neonatal and Pediatric Respiratory Care, 9th edition.* St Louis, Missouri: Mosby Elsevier, 2014.

15. Fink JB., **Ari A.** Chapter 6. Humidity and Aerosol Therapy. In *Mosby's Respiratory Care Equipment,* St Louis, Missouri: Mosby Elsevier, 2013.

16. Fink JB., **Ari A.** Chapter 36. Aerosol Drug Therapy. In *Egan's Fundamentals of Respiratory, Care 10th edition*. St Louis, Missouri: Mosby Elsevier, 2012.

17. Fink JB., **Ari A.** Chapter 35. Humidity and Bland Aerosol Therapy. In *Egan's Fundamentals of Respiratory Care, 10th edition*. St Louis, Missouri: Mosby Elsevier, 2012.

18. **Ari A.,** Gardenhire D. Chapter 3. Administration of Aerosolized Agents. In *Rau's Respiratory Care Pharmacology, 7th edition*. St Louis, Missouri: Mosby Elsevier, 2011

e. *Creative Books:*
N/A

2. ***Articles***

a. *Refereed Journal Articles (92 Peer-reviewed Articles):*

1. **Ari A,** Hoops J, Koyuncu A, Fink JB. Dos and don'ts in optimizing transnasal aerosol drug delivery in clinical practice. *Expert Opinion on Drug Delivery* 2024; 21(7): 1103-1114.

2. Torres A, Wenke M, Lieneck C, Ramamonjiarivel Z, Ari A. A Systematic Review of Artificial Intelligence Used to Predict Loneliness, Social Isolation, and Drug Use during the COVID-19 Pandemic. *Journal of Multidisciplinary Healthcare* 2024; 17:3403-3425.

3. Koyuncu A, **Ari A.** Filling the gaps in the issues, evaluation, and selection of mobile health technologies in respiratory medicine. *Expert Review of Respiratory Medicine* 2024: 18 (3-4): 159-174.

4. Biney I, **Ari A**, Barjaktarevic I, Carlin B, Christiani D, Cochran L, Drummond B, Johnson K, Kealing D, Kuehl P, Li J, Martinez S, Ohar J, Radonovich L, Sood A, Suggett J, Tal-Singer R, Tashkin D, Yates J, Cambridge L, Dailey P, Manino D, Dhand R. Expert Consensus: Guidance on mitigating the risk of transmission of bioaerosols and secondary medical aerosols during nebulized medication therapy. *CHEST* 2024; 165 (3): 653-668. (Refereed)

5. **Ari A.,** Raghavan N, Diaz M, Rubin B, Fink J. Individualized aerosol medicine: Integrating device to the patient. *Paediatric Respiratory Reviews* 2023 e-pub ahead of print. (Refereed)

6. **Ari A.,** Wang T. Hudgins A. Impact of program components on perceived organizational support in respiratory care education. *Respiratory Care* 2023: 68(12):11225. (Refereed)

7. **Ari A.,** Alhamad B. Evaluating dry powder inhalers: From in vitro studies to mobile health applications. *Respiratory Medicine* 2023; 215: 107281. (Refereed)

8. Lieneck C, Wang T, Gibbs D, Russian C, Ramamonjiarivelo Z, **Ari A.** Interprofessional education and research in health professions: A systematic review and supplementary topic modeling. Accepted for publication in *Education Sciences* 2022; 12 (12): 850-869. (Refereed)

9. **Ari A.** Rubin B, Fink JB. Mesh nebulizers in enabling transnasal pulmonary delivery of medical aerosols to infants and toddlers: Roles, opportunities and challenges. *Frontiers in Drug Delivery* 2022 2:995489. doi: 10.3389/fddev.2022.995489. (Refereed)

10. Terry SE, **Ari A**. Effects of the COVID-19 pandemic on respiratory care student enrollment, retention, and success on the National Board for Respiratory Care Credentialing Examination. *Respiratory Care* 2022; 67(1): 1264-1277. (Refereed)

11. Hudgins A, Desireddi J, Rodrigues N, **Ari A**. A single center comparison of introducing an inhaled nitric oxide initiation and weaning protocol into the neonatal intensive care unit. *Neonatal Intensive Care* 2022; 35(2):16-19. (Refereed)

12. Alcoforado L, Paiva DN, **Ari A**, Barcelar JM, Brandao SC, Fink JB, Dornelas A. Does a valved holding chamber with a jet nebulizer improve aerosol lung deposition? A randomized cross-over study. *Pharmaceutics* 2022; 14(3): 566. (Refereed)

13. **Ari A**, Blain K, Soubra S, Hanania N. Treating COPD Patients with Aerosolized Medications in The Era Of COVID-19: Options and Rationales for Patients at Home. *International Journal of Chronic Obstructive Pulmonary Diseases* 2021; 16: 2687-2695. (Refereed)

14. Showalter V, Russian C, Gonzales J, **Ari A.** Students' perceived self-efficacy, expectations, barriers and support in enrolling a master's degree program in respiratory care. *Canadian Journal of Respiratory Therapy* 2021; 57: 154-159. (Refereed)

15. **Ari A**, Fink JB. Quantifying delivered dose with jet and mesh nebulizers during spontaneous breathing, noninvasive ventilation, and mechanical ventilation using an in vitro pediatric lung model with exhaled humidity. *Pharmaceutics* 2021; 13(8): 1179. (Refereed)

16. **Ari A,** Scott JB. Lessons learned about aerosol drug delivery in the era of COVID-19. *CHEST* 2021. Available at https://www.chestnet.org/Topic-Collections/COVID-19/COVID-in-Focus/Lessons-Learned-About-Aerosol-Drug-Delivery-in-the-Era-of-COVID-19 (Refereed)

17. **Ari A.** Fink JB. Delivered dose with jet and mesh nebulizers during spontaneous breathing, noninvasive ventilation, and mechanical ventilation using adult lung models. *European Respiratory Journal Open Research* 2021, DOI: 10.1183/23120541.00027-2021. (Refereed)

18. Blain K, **Ari A.** Effect of student demographics, prior military service, and class times on academic performance in a respiratory care program. *Respiratory Care* 2021: 66(11): 1752-1757. (Refereed)

19. **Ari A.** Fink JB. Aerosol drug delivery to tracheotomized patients with COVID-19: Pragmatic suggestions for clinicians. *Canadian Journal of Respiratory Therapy* 2021; 57: 49-52. (Refereed)

20. **Ari A.**, Moody G. How to deliver aerosolized medications through high flow nasal cannula safely and effectively in the era of COVID-19 and beyond. *Canadian Journal of Respiratory Therapy* 2021; 57: 22-25. (Refereed)

21. **Ari A.** A path to successful patient outcomes through aerosol drug delivery to children: A narrative review. *Annals of Translational Medicine* 2021; 9(7): 1-15. (Refereed)

22. **Ari A.** Promoting safe and effective use of aerosol devices in COVID-19: Risks and suggestions for viral transmission. *Expert Opinion on Drug Delivery* 2020; 17(11): 1509-1513. (Refereed)

23. Moody G. **Ari A.** Quantifying continuous nebulization via high flow nasal cannula and large volume nebulizer in a pediatric model. *Pediatric Pulmonology* 2020,55(10): 2596-2602. (Refereed)

24. **Ari. A.** Use of aerosolized medications at home patients for COVID-19. *The Lancet Respiratory Medicine* 2020; 8(8): 754-756. (Refereed)

25. **Ari A.** Practical strategies for safe and effective delivery of aerosolized medications to patients with COVID-19. *Respiratory Medicine* 2020; 167: 105987. (Refereed)

26. **Ari A**, Fink JB. Recent advances in aerosol devices for the delivery of inhaled

medications. *Expert Opinion on Drug Delivery* 2020, e-pub ahead of print. (Refereed)

27. Moody GB, Luckett PM, Shockley CM, Huang R, **Ari A.** Clinical efficacy of vibrating mesh and jet nebulizers in children with asthma admitted to emergency departments. *Respiratory Care* 2020, e-pub ahead of print, (Refereed)

28. Alalwan M, Fink JB, **Ari A.** In-vitro evaluation of aerosol drug delivery with and without high flow nasal cannula using pressurized metered-dose inhaler and jet nebulizer in pediatrics. *Pediatric Pulmonology* 2019: 54(12): 1968-1973. (Refereed)

29. **Ari A.** Effect of nebulizer type, delivery interface, and flow rate on aerosol drug delivery to spontaneously breathing pediatric and infant lung models. *Pediatric Pulmonology* 2019: 54(11): 1735-1741. (Refereed)

30. Alcoforado L., **Ari A,** Barcelar J., Brandao S.C, Fink JB, Dornelas A. Impact of gas flow and humidity on transnasal aerosol deposition via high flow nasal cannula in adults: A randomized crossover study. *Pharmaceutics* 2019; 11(320); 1-13. (Refereed)

31. Lie J, Gong L, **Ari A,** Fink JB. Transnasal pulmonary aerosol delivery via nasal cannula to infants and toddlers. *Pediatric Pulmonology* 2019; 54(6): 914-921. (Refereed)

32. **Ari A.** How to optimize aerosol drug delivery during noninvasive ventilation: What to use, how to use it, and why? *Eurasian Journal of Pulmonology* 2019; 21:1-8. (Refereed)

33. Meyers M, Rodrigues N, Marshall G, **Ari A.** High-frequency oscillatory ventilation: An overview. *Canadian Journal of Respiratory Therapy* 2019; 55:40-46. (Refereed)

34. Alghamdi SM, **Ari A**. Evaluation of clinical facilities in terms of clinical learning environment, supervisory relationship, and role of clinical instructors in respiratory therapy education. *Respiratory Care* 2019;64(2):161-168. (Refereed)

35. Alanazi AM, **Ari A**, Goodfellow LT, Gibson-Young L. Electronic Cigarettes among Healthcare Students at an Urban Southeastern University in the US: Prevalence, Awareness, and Beliefs. *Int J Nurs Health Care Res* 2019; 5(4): 1-6. (Refereed)

36. Williams J, **Ari A**, Fink JB. The effect of different closed suction catheter designs and pMDI adapters on aerosol delivery in simulated adult mechanical ventilation with and without exhaled humidity. *Respiratory Care* 2018; 63:1154-1161. (Refereed)

37. Hanania NA, Braman S, Adams SG, Adewuya R, **Ari A**, Brooks J, Mahler DA, Ohar JA, Peters J, Sanjar S. The role of inhalation delivery devices in COPD: Perspectives of patients and health care providers. *Chronic Obstructive Pulmonary Diseases* 2018; 5(2):1-13. (Refereed)

38. **Ari A**., Braman SS, Brooks, JA, Mahler DA, Ohar JA. The importance of device considerations in COPD treatment selection. *CHEST Physicians* 2018; 1-8.

39. **Ari A**, Mahler DA. Individualizing COPD medication delivery devices: Guidelines,

Challenges, and Solutions. How to partner with your patients to help optimize treatment-device selection. *CHEST Physicians* 2018;9-14.

40. **Ari A**. Aerosol drug delivery through high flow nasal cannula. *Current Pharmaceutical Biotechnology* 2017; 18(11): 877-882. (Refereed)

41. **Ari A,** Dang T, Alqahtani M, Alanazi F, Alkhathami A, Qoutah R, Almamary A, Fink J. Effect of HME on aerosol drug delivery and airway resistance in simulated ventilator dependent adults using jet and mesh nebulizers. *Journal of Aerosol Medicine and Pulmonary Drug Delivery* 2017; 31(1): 42-48. (Refereed)

42. Dailey PA, Fink JB, **Ari A.** Aerosol delivery through adult high flow nasal cannula: an in-vitro comparison with heliox and oxygen. *Respiratory Care* 2017;62(9):1186-1192. (Refereed).

43. Alquaimi M, Fink JB, **Ari A.** Efficiency of different aerosol devices and masks during noninvasive positive ventilation: An in-vitro study. *Journal of Respiratory Medicine and Lung Diseases* 2017; 2(3): 1018-1022. (Refereed).

44. **Ari A**, Alghamdi K, Fink J. Effect of heat and moisture exchangers and exhaled humidity on aerosol deposition in a simulated ventilator-dependent adult lung model. *Respiratory Care* 2017 62(5):538-543. (Refereed).

45. **Ari A.,** Fink JB. Inhalation therapy in patients with tracheostomy: A guide to clinicians. *Expert Review of Respiratory Medicine* 2017; 11(3):201-208. (Refereed).

46. Berlinski A, **Ari A,** Davies P, Fink J, Majaesic C, Reychler G, Tatla T, Amirav I. Workshop report: Aerosol delivery to spontaneously breathing tracheostomized patients. *Journal of Aerosol Medicine and Pulmonary Drug Delivery* 2017; 30(4):207-222. (Refereed).

47. **Ari A.,** Fink JB. Aerosol delivery devices for the treatment of adults in acute and critical care. *Current Pharmaceutical Biotechnology* 2016; (17): 1268-1277. (Refereed).

48. **Ari A**. Drug delivery interfaces: A way to optimize inhalation therapy in spontaneously breathing children. *World Journal of Clinical Pediatrics* 2016; 5(3): 281-287. (Refereed)

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84. Rau JL, **Ari A**, Tinkler B. Metered-dose drug delivery with the Gentle-Haler®. *Respiratory Care* 2000; 45(8): 981.

85. Restrepo R, **Ari A.**, De Meuse P. Use of halothane in a pediatric patient with status asthmaticus. *Respiratory Care* 2000; 45 (8): 1008.

4. Reports:

N/A

5. Book Reviews:
N/A

6. Other Works in Print:
N/A

B. PRESENTATIONS

Papers Presented at Professional Meetings:

1. **2024 American Thoracic Society, San Francisco, CA, 16-21 May 2024.**
   Topic: Understanding nebulizer utilization and hesitancy: a COPD Foundation Nebulizer Consortium survey study.

2. **2023 American Association for Respiratory Care Congress, Nashville, TN, 6 Nov 2023**.
   Topic: Impact of program components on perceived organizational support in respiratory care education.

3. **Health Scholar Showcase, Texas State University. San Marcos TX, 2 March 2023**
   Topic: The Gamification of Effective Patient Communication.

4. **Health Scholar Showcase, Texas State University. San Marcos TX, 2 March 2023**
   Topic: Perceived organizational support in respiratory care education.

5. **64th International Respiratory Care Virtual Congress, December 3, 2020.**
   Topic: Students' perceived self-efficacy, expectations, barriers, and support in enrolling a master's degree program in respiratory care.

6. **63rd International Respiratory Congress, New Orleans, LA, 9-12 November 2019**
   Topic 1: An in vitro comparison of albuterol delivery to spontaneously breathing pediatrics with different airway resistance and lung compliance during noninvasive ventilation.
   Topic 2: The impact of high-fidelity simulation on student performance on the national board exams in respiratory therapy.

7. **62nd International Respiratory Congress, Las Vegas, Nevada, 3 – 7 December 2018**
   Topic 1: Effect of nebulizer type, delivery interface, and flow rate on aerosol drug delivery to a spontaneously breathing infant lung model
   Topic 2: An in vitro comparison of jet and mesh nebulizers during mechanical ventilation, noninvasive ventilation, and spontaneous breathing in pediatrics.
   Topic 3: Quantifying delivered dose with jet and mesh nebulizers during spontaneous breathing, noninvasive ventilation, and mechanical ventilation using an in vitro adult lung model with exhaled humidity.

8. **61st International Respiratory Congress, Indianapolis, IN, 3-7 October 2017**
   Topic 1: Aerosol drug delivery with jet and mesh nebulizers using filtered and nonfiltered heat moisture exchangers.
   Topic 2: Impact of filtered HMEs on aerosol delivery and airway resistance in a simulated mechanically ventilated adult lung model.

Topic 3: Effect of nebulizer type, delivery interface, and flow rate on aerosol drug delivery to a spontaneously breathing pediatric lung model.

9. 60th International Respiratory Congress, San Antonio, TX, 14-18 Sept 2016.
Topic 1: Comparison of interfaces on aerosol drug delivery to a simulated adult lung model receiving noninvasive ventilation.
Topic 2: Effect of HME on aerosol drug delivery and airway resistance in simulated ventilator dependent adults using jet and mesh nebulizers.
Topic 3: Perceptions of clinical instructors and respiratory therapy students on effective teaching characteristics of clinical instructors in Saudi Arabian Universities.
Topic 4: Evaluation of clinical facilities in terms of clinical learning environment, supervisory relationship, and role of clinical instructors in respiratory care education.

10. 20th Congress of the International Society for Aerosols in Medicine, Munich,
Germany, 1-3 June 2015.
Topic: Effects of heat and moisture exchangers and exhaled humidity on aerosol deposition in a simulated ventilator-dependent adult lung model.

11. 19th Congress of the International Society for Aerosols in Medicine, Chapel Hill, 6-10 April 2013.
Topic 1: Comparison of HFNC, Bubble CPAP, and SiPAP on aerosol delivery in premature babies: An in-vitro study.
Topic 2: The effect of aerosol device and administration technique on drug delivery in a simulated spontaneously breathing pediatric model with a tracheostomy.

12. 58th International Respiratory Congress, New Orleans, LA, 8-12 November 2012.
Topic 1: Comparison of the RAM cannula with high flow nasal cannula on aerosol drug delivery in a simulated neonatal lung model.
Topic 2: Efficiency of aerosol delivery devices in mechanically ventilated patients with artificial airways.

13. CHEST 2012, American College of Chest Physicians, Atlanta, GA, 20-25 October 2012.
Topic: Aerosol delivery via tracheostomy tube using the jet nebulizer and pMDI with three types of spacers.

14. 38th International Congress of the Turkish Respiratory Research Society, Cesme, Izmir, Turkey, 15-17 October 2012.
Topic 1: Secondhand aerosol exposure during mechanical ventilation.
Topic 2: Efficiency of aerosol delivery devices in ventilator-dependent patients with artificial airways.

15. European Pediatric and Neonatal Congress, Montreux, Switzerland, 8 June 2012.
Topic: Aerosol drug delivery with the RAM cannula during mechanical ventilation.

16. 57th International Respiratory Congress, Tampa, Florida, 4-8 December 2011.
Topic 1: Other non-conventional aerosol therapies: Insulin, gene therapy, and analgesics. (Invited).
Topic 2: Quantifying aerosol delivery in newborns, infants, and toddlers using different

drug dosages with high flow nasal cannula.
Topic 3: Aerosol drug delivery via SVN and resuscitation bags to patients with tracheostomy.
Topic 4: A retrospective comparison of the traditional and hybrid format of course delivery on students' learning and perceptions of teaching effectiveness in research methodology.

17. **International Society for Aerosols in Medicine (ISAM) Congress, Rotterdam, The Netherlands, 18-22 June 2011.**
Topic 1: Influence of nasal cannula, flow rate, and humidifier in aerosol drug delivery during high flow nasal oxygen administration in simulated neonatal, pediatric, and adult lung models.
Topic 2: An in-vitro comparison of heliox and oxygen in albuterol delivery using neonatal, pediatric, and adult high flow nasal cannulas.

18. **56th International Respiratory Congress, Las Vegas, Nevada, 4-6 December 2010.**
Topic 1: Influence of nasal cannula, flow rate, and humidifier in aerosol drug delivery during high flow nasal oxygen administration in a simulated neonatal lung model.
Topic 2: Aerosol lung deposition using the Aeroneb Solo nebulizer during high-frequency oscillatory ventilation in the adult lung model.
Topic 3: An in-vitro evaluation of aerosol delivery through tracheostomy and endotracheal tubes using different interfaces.
Topic 4: Effects of heat and moisture exchangers designed to allow aerosol delivery on aerosol deposition in simulated mechanically ventilated adults.
Topic 5: Aerosol drug delivery in a model of spontaneously breathing newborns using high flow nasal cannula at low and high flow rates with heliox and oxygen.
Topic 6: Secondhand aerosol exposure during mechanical ventilation with and without expiratory filters: An in-vitro study.
Topic 7: Comparison of albuterol delivery during high frequency oscillatory ventilation and conventional mechanical ventilation of a simulated adult.

19. **55th International Respiratory Congress, San Antonio, Texas, December 2009.**
Topic 1: An in-vitro comparison of heliox and oxygen in albuterol delivery using pediatric high flow nasal cannula.
Topic 2: Predicting students' performance on the clinical simulation examinations
Topic 3: Implementing computerized patient simulations as a measure of student learning on patient management in respiratory therapy education.
Topic 4: The effect of aerosol drug delivery on airway resistance through heat-moisture exchangers (HMEs): An in-vitro model.

20. **International Society for Aerosol Medicine and Pulmonary Drug Delivery, Monterey, California, May 2009.**
Topic 1: An in-vitro evaluation of aerosol drug delivery with drop-by-drop nebulization in simulated mechanically ventilated pediatrics.
Topic 2: Comparison of continuous and drop-by-drop nebulization during pediatric mechanical ventilation: An in-vitro study.

21. **54th International Respiratory Congress, Anaheim, California, December 2008.**
Topic 1: Influence of nebulizer type position and bias flow on aerosol drug delivery in a model of infant mechanical ventilation.

Topic 2: An in-vitro evaluation of aerosol drug delivery with continuous nebulization in simulated mechanically ventilated pediatrics.
Topic 3: From Admission to Graduation: Is there any difference between male and female respiratory therapy students on academic success in respiratory care education?

22. **53rd International Respiratory Congress, Orlando, Florida, December 2007.**
Topic 1: Exploring the effect of program resources on student retention in respiratory therapy education.
Topic 2: Admission criteria as predictors of student success on the national board for respiratory care examinations.
Topic 3: Evaluation of the position of the aerosol device in two different ventilator circuits during mechanical ventilation.

23. **52nd International Respiratory Congress, Las Vegas, Nevada, December 2006.**
Topic 1: Exploring respiratory care education programs through program curriculum, resources, and outcomes.
Topic 2: Variables predicting successful respiratory care education programs.

24. **51st International Respiratory Congress, San Antonio, Texas, USA, 4-7 Dec. 2005.**
Topic: Grading policy: Accuracy, consistency, and fairness.

25. **49th International Respiratory Congress, Las Vegas, Nevada, USA, 6-11 Dec. 2003.**
Topic: From Turkish medical professionals' perspective: Is there a need for a pulmonary diagnostics education program in Turkey?

26. **48th International Respiratory Care Congress, Tampa, Florida, USA, 5-8 Oct. 2002.**
Topic 1: Quality of instruction: Determinants of teaching method and effectiveness in clinical education.
Topic 2: The profession of respiratory care in Turkey: Are Turkish medical professional ready to have an American-based respiratory care education program.

27. **12th European Respiratory Therapy Congress, Stockholm, Sweden, 14-18 Sept 2002.**
Topic: An in vitro evaluation of nebulizer designs under normal breathing versus acute airflow obstruction.

28. **47th International Respiratory Congress, San Antonio, Texas, USA, 1-4 Dec. 2001.**
Topic 1: An in-vitro comparison of nebulizer performance under normal breathing versus acute airflow obstruction.
Topic 2: The effect of the American respiratory care program on the knowledge of Turkish respiratory care practitioners.

29. **46th International Respiratory Congress, Cincinnati, Ohio, USA, 7-10 Oct. 2000.**
Topic: Metered-dose inhaler drug delivery with the Gentle-Haler®

30. **44th International Respiratory Congress, Atlanta, Georgia, USA, 15 Dec. 1998.**
Topic: Developing respiratory care education and practices in Turkey

31. **43rd International Respiratory Congress, New Orleans, USA, 6-8 Dec. 1997.**
Topic: Establishing a new affiliate of the American Association for Respiratory Care.

32. **Alabama Society for Respiratory Care, Gulf Shores, Alabama, USA. 1-3 Oct. 1997.**
Topic: The effects of chest physical therapy on selected pulmonary function tests and arterial blood gases in patients with medium and severe chronic airway obstruction.

2. ***Invited Talks, Lectures, and Presentations:***

1. **Egyptian Respiratory Care Summit, 2 January 2025.**
Topic: Aerosol drug delivery in acute respiratory failure: How and Why?

2. **Fundamentals of Respiratory Care Support Training, 25-26 September 2024.**
Topic 1: Aerosol therapy in acute and critical care
Workshop: Aerosol drug delivery during HFNC, NIV and mechanical ventilation

3. **Colombia Society for Respiratory Care Conference, 21 May 2024**.
Topic: Dos and Don'ts in Optimizing Transnasal Aerosol Drug Delivery in Clinical Practice

4. **XV Conference of the Argentina Society of Cardiorespiratory Kinesiology, Argentina, 11 April 2024.**
Topic: Optimizing Transnasal Aerosol Drug Delivery in Clinical Practice.

5. **Respiratory Care Week Webinar, 19 October 2023**
Topic 1: How to deliver aerosolized medications during high-flow nasal cannula (Invited)

6. **16th Oxford Global Formulation and Delivery Conference, 3 October 2023**
Topic: Optimizing transnasal aerosol drug delivery (Invited)

7. **50th Hawaii Society for Respiratory Care Conference, Honolulu, Hawaii, 26-27 September 2023**
Topic 1: How to deliver aerosolized medications during noninvasive ventilation (Invited)
Topic 2: Optimizing aerosol drug delivery in critical pulmonary care: Options & rationales

8. **Texas Society for Respiratory Care Conference, 24 September 2023**
Topic: Aerosol drug delivery through the high-flow nasal cannula. (Invited)

9. **World Intensive and Critical Care Congress, Istanbul, Turkey, 26 – 29 August 2023.**
Topic 1: How to deliver aerosolized medications during noninvasive ventilation (Invited)
Topic 2: Optimizing aerosol drug delivery in critical pulmonary care: Options & rationales

10. **RESCON Europe Aerosol Drug Delivery Congress, Porto, Portugal, 20 – 21 June 2023**
Topic: Optimizing aerosol drug delivery through the high-flow nasal cannula. (Invited)

11. **Respiratory Care Journal Podcast, 16 June 2023.**
Topic: Hemodynamic effects of prone positioning with COVID-19 acute respiratory failure. (Invited)

12. **Webinar, Canadian Society for Respiratory Care, 21 November 2022.**
Topic: How to deliver aerosolized medications to spontaneously breathing patients: Options & Rationales. (Invited)

13. **2022 International Respiratory Care Congress, 8-12 November 2022**
Topic 1: Differential device selection and integration of device to the patient in aerosol medicine. (Invited)
Topic 2: International Education Recognition System. (Invited)
Topic 3: Respiratory Care Profession in Turkey: Initiatives in Education, Research and Service. (Invited)

14. **2022 British Columbia Society for Respiratory Care Conference, Vancou**ver, Canada, 14-15 November 2022.
Topic 1: Optimizing aerosol delivery to spontaneously breathing adults and children.
Topic 2: Aerosol drug delivery in acute and chronic care. (Invited)

15. **Webinar, Respiratory Care Week, 19 October, 2022.**
Topic: Optimizing aerosol delivery in critical pulmonary care (Invited)

16. **Webinar, Respiratory Care Week Learning Series, Taiwan, 7 July 2022.**
Topic: Lessons learned about aerosol drug delivery in the era of COVID-19 (Invited).

17. **21st International Pediatric Pulmonology Congress, France, 1 -3 July 2022.**
Topic: Aerosol drug delivery in the era of COVID-19: Options and Rationales (Invited).

18. **Noninvasive Ventilation Education Program, Okan University, Istanbul, Turkey, 21-22 June 2022.**
Topic 1: Foundations of noninvasive ventilation (Invited).
Topic 2: Ventilators used for noninvasive ventilation (Invited).
Topic 3: Noninvasive ventilation modes and parameters (Invited).
Topic 4: Interfaces used during noninvasive ventilation (Invited).
Topic 5: Indications of noninvasive ventilation (Invited).
Topic 6: Patient selection and monitoring during noninvasive ventilation (Invited).
Topic 7: Aerosol drug delivery to patients receiving noninvasive ventilation (Invited).

19. **Texas Society for Respiratory Care Congress, South Padre Island TX 10 May 2022**
Topic: Aerosol drug delivery in critical pulmonary care. (Invited)

20. **Mayo Clinic, Rochester, Minneapolis, 4 May 2022.**
Topic: Optimizing aerosol drug delivery during HFNC. (Invited)

21. **New York Downstate Respiratory Congress, 1 April 2022.**
Topic: Lessons learned about aerosol drug delivery in the era of COVID-19. (Invited)

22. **Treatments used in Chest Physiotherapy Conference, Istanbul, Turkey, 18-19 December 2021.**
Topic: How to optimize aerosol drug delivery to patients with pulmonary diseases. (Invited)

23. **International Council for Respiratory Care Annual Meeting, 16 November 2021.**
Topic 1: International education recognition system. (Invited)
Topic 2: Respiratory care in Turkish Republic. (Invited)

24. **European Society of Medicine Conference, Vienna, Austria, 11 Nov 2021.**
Topic: Options and rationales for aerosol drug delivery in the era of COVID-19. (Invited)

25. **Webinar, Respiratory Care Week Learning Series, 24 October 2021.**
Topic: Lessons learned about aerosol drug delivery in the era of COVID-19. (Invited)

26. **CHEST 2021, American College of Chest Physicians, 20 October 2021.**
Topic: Aerosol drug delivery in patients with chronic obstructive pulmonary diseases. (Invited)

27. **Argentina Society for Respiratory Care Conference, 3 October 2021.**
Topic: Aerosol therapy in critical care. (Invited)

28. **Egyptian College of Critical Care Physicians Conference, Cairo, Egypt, 16 September 2021.**
Topic: Safe and effective delivery of aerosolized medications in the era of COVID-19. (Invited)

29. **Indian Association for Respiratory Care Conference, Bombay, India, 16 June 2021.**
Topic: Safe and effective delivery of aerosolized medications in the era of COVID-19. (Invited)

30. **International Society for Aerosols in Medicine Conference, Germany, 22 May 2021**
Topic: Differential device selection and integration of device to patient in aerosol medicine. (Invited)

31. **Canadian Society for Respiratory Therapy, Annual Conference, 30 April 2021.**
Topic: What has the pandemic taught us about aerosol drug delivery? How can we better prepared for the next time? (Invited)

32. **International Council for Respiratory Care, 1 April 2021.**
Topic: The International Education Recognition System: Guidelines, Evaluation and Recognition. (Invited)

33. **The International Council for Respiratory Care Meeting, 9 December 2020**
Topic: Respiratory Care Profession in Turkey. (Invited)

34. **AARC 2020 Virtual Conference, American Association for Respiratory Care, 3 December 2020.**
Topic 1: Aerosol drug delivery to patients receiving noninvasive ventilation: What to use, how to use it and why? (Invited)
Topic 2: Students' perceived self-efficacy, expectations, barriers, and support in enrolling a master's degree program in respiratory care. (Invited)

35. **Chile Medical Association Conference, Chile, 19 November 2020.**
Topic: Aerosol drug delivery through high flow nasal cannula. (Invited)

36. **2020 International Respiratory Care Conference by Zhejiang Respiratory Alliance, China, 16 November 2020.**
Topic: The issues needing attention and research design of aerosol inhalation for patients with respiratory infectious diseases. (Invited)

37. **CHEST 2020 Virtual Conference, American College of Chest Physicians, 28 October 2020.**
Topic: Safe and effective delivery of aerosolized medications to patients with COVID-19. (Invited)

38. **Webinar, Better Outcomes, Saxe Communications, 15 October 2020.**
Topic: How to deliver aerosols safely and effectively in the era of COVID-19. (Invited)

39. **42nd International Conference of the Turkish Respiratory Society, Turkey, 6 October 2020.**
Topic: Recent advances in aerosol technologies. (Invited)

40. **Webinars, the Turkish Physical Therapy Association, Turkey, 15 September 2020.**
Topic 1: Aerosol drug delivery to patients with COVID-19. (Invited)
Topic 2: Respiratory care profession in the United States: Education, research and service. (Invited)

41. **Webinar, International Society for Aerosols in Medicine, 5 August 2020.**
Topic: Promoting safe and effective delivery of aerosolized medications in the era of COVID-19: Suggestions for home care and healthcare settings (Invited).

42. **AARC Live Conference, American Association for Respiratory Care, 21 July 2020.**
Topic: COVID-19: Safe and effective delivery of aerosolized medications (Invited).

43. **Webinar at Canadian Society for Respiratory Care, Canada, 5 June 2020.**
Topic: Practical strategies for a safe and effective aerosol drug delivery to patients with COVID-19 (Invited).

44. **Webinar in the Middle East, Aerogen Ltd., 4 June 2020.**
Topic: Practical strategies for a safe and effective aerosol drug delivery to patients with COVID-19(Invited).

45. **Treatments used in Respiratory Care Education Program, Mustafa Kemal University, Hatay, Turkey, 20-21 May 2020.**
Topic 1: Oxygen therapy (Invited).
Topic 2: Humidification therapy (Invited).
Topic 3: Aerosol therapy (Invited).
Topic 4: Hyperinflation therapy (Invited).
Topic 5: Airway management (Invited).
Topic 6: Suctioning (Invited).
Topic 7: Mechanical Ventilation (Invited).
Topic 8: Patient assessment (Invited).

46. **63rd International Respiratory Congress, New Orleans, LA, 9-12 November 2019.**
Topic: How to optimize aerosol delivery to patients with COPD (Invited).

47. **National Distance Learning Week, Texas State University, San Marcos, TX. 4 November 2019.**
Topic: How to design and teach online courses in healthcare (Invited)

48. **CHEST 2019 Annual Meeting, American College of Chest Physicians, New Orleans, LA, 19-23 October 2019.**
Topic: How to optimize aerosolized medications via high flow nasal cannula (Invited)

49. **Noninvasive Ventilation Education Program, Istanbul Memorial Hospital, Istanbul, Turkey, 22-23 June 2019.**
Topic 1: Foundations of noninvasive ventilation (Invited).
Topic 2: Ventilators used for noninvasive ventilation (Invited).
Topic 3: Noninvasive ventilation modes and parameters (Invited).
Topic 4: Interfaces used during noninvasive ventilation (Invited).
Topic 5: Indications of noninvasive ventilation (Invited).
Topic 6: Patient selection and monitoring during noninvasive ventilation (Invited).
Topic 7: Aerosol drug delivery to patients receiving noninvasive ventilation (Invited).

50. **Treatments used in Respiratory Care Education Program, Mustafa Kemal University, Hatay, Turkey, 15-16 June 2019.**
Topic 1: Oxygen therapy (Invited).
Topic 2: Humidification therapy (Invited).
Topic 3: Aerosol therapy (Invited).
Topic 4: Hyperinflation therapy (Invited).
Topic 5: Airway management (Invited).
Topic 6: Suctioning (Invited).
Topic 7: Mechanical Ventilation (Invited).
Topic 8: Patient assessment (Invited).

51. **22nd Congress of the International Society for Aerosol Medicine, Montreux, Switzerland, 26-29 May 2019.**
Topic: Differential device selection and integration of device to the patient (Invited).

52. **2019 Annual Conference of the Florida Society for Respiratory Care, Daytona Beach, Florida, 9-11 May 2019.**
Topic: Optimizing aerosol drug delivery in critical pulmonary care (Invited).

53. **2019 Annual Conference of the Louisiana Society for Respiratory Care, Baton Rouge, Louisiana, 23-25 April 2019.**
Topic: Aerosol drug delivery during mechanical ventilation (Invited).

54. **2019 Annual Conference of the Alabama Society for Respiratory Care, Orange Beach, Alabama, 16-19 April 2019.**
Topic: Optimizing aerosol drug delivery in ventilator-dependent patients (Invited).

55. **The Joint Annual Conference of the Kansas Society for Respiratory Care and the Missouri Society for Respiratory Care, Kansas City, Kansas, 1 March 2019.**
Topic: How to optimize aerosol drug delivery during noninvasive ventilation (Invited).

56. **2018 International Respiratory Care Forum & 2nd Meeting of Zhejiang Respiratory Alliance. Hangzhou, Zhejiang, China, 3-4 November 2018.**
Topic: Optimizing aerosol delivery to patients with tracheostomy (Invited).

57. **Aerosol School in China. Hangzhou, Zhejiang, China. 1 November 2018.**
Topic: Patient adherence to prescribed medications (Invited).

58. **40th International Conference of the Turkish Respiratory Society, Antalya, Turkey, 13 – 16 October 2018.**
Topic: Aerosol drug delivery with different technologies (Invited).

59. **Aerosol School in Turkey, Antalya, Turkey, 12 October 2018.**
Topic: Aerosol delivery devices: Operation mechanisms, limitations & factors affecting their performance and drug delivery (Invited).

60. **Pediatric Respiratory Care Conference at Ann & Robert H. Lurie Children Hospital, Chicago, IL, 4 October 2018.**
Topic: Optimizing aerosol drug delivery to infants and pediatrics (Invited).

61. **2018 Symposium: Updates and Controversies Related to Inhaled Aerosols, International Society for Aerosols in Medicine, San Diego, CA, 18 May 2018.**
Topic: Personalized medicine: Which device is best for your patient? (Invited)

62. **Tennessee Society for Respiratory Care Conference, Chattanooga, TN, 11 May 2018**
Topic: Aerosol drug delivery to spontaneously breathing patients (Invited).

63. **Georgia Society for Respiratory Care Conference, Atlanta, GA, 16 Feb 2018**
Topic: Aerosol drug delivery to spontaneously breathing patients (Invited).

64. **Mechanical Ventilation Education Program, Mustafa Kemal University, Turkey, 21-22 May 2017.**
Topic 1: Basic terms and concepts of mechanical ventilation (Invited).
Topic 2: Effects of mechanical ventilation on ventilation and oxygenation (Invited).
Topic 3: Establishing the need for mechanical ventilation (Invited).
Topic 4: Setting initial ventilator parameters (Invited).
Topic 5: Adjusting ventilator settings according to ABGs (Invited).
Topic 6: Clinical application of mechanical ventilation (Invited).
Topic 7: Minimizing adverse pulmonary & cardiovascular effects of mechanical ventilation (Invited).
Topic 8: Patient evaluation for discontinuing ventilator support (Invited).
Topic 9: Extubation and patient monitoring during weaning (Invited)**.**

65. **Respiratory Therapy in Critical Care Symposium, Mustafa Kemal University, Hatay, Turkey, 20 May 2017.**
Topic 1: Aerosol drug delivery in critical care (Invited).

Topic 2: Optimizing aerosol therapy in children (Invited).

66. **10th International Conference on Neonatal and Childhood Pulmonary and Vascular Disease, San Francisco, CA, 10-12 March 2017**.
Topic: Nebulization Therapy in Infants, Critically Ill, and in the ICU (Invited).

67. **Aerosol Medicine and Pulmonary Drug Delivery Education Program, Sanko University, Gaziantep, Turkey, 24-25 December 2016.**
Topic 1: Inhalation therapy in spontaneously breathing patients (Invited).
Topic 2: Inhalation therapy during noninvasive ventilation (Invited).
Topic 3: Aerosol drug delivery to patients with tracheostomy (Invited).
Topic 4: Optimizing aerosol drug delivery to infants and pediatrics (Invited).
Topic 5: Patient education and adherence to aerosol medicine (Invited).

68. **Critical Pulmonary Care Education Program, Sanko University, Gaziantep, Turkey, 21-23 December 2016.**
Topic 1: Fundamentals of mechanical ventilation (Invited).
Topic 2: Ventilator parameters and modes used during mechanical ventilation (Invited).
Topic 3: Establishing the need for mechanical ventilation (Invited).
Topic 4: Respiratory therapy procedures in critical pulmonary care 1 (Invited).
Topic 5: Respiratory therapy procedures in critical pulmonary care 2 (Invited).
Topic 6: Mechanical ventilation from intubation to weaning (Invited).

69. **Georgia State University, 2nd Biannual Spring Education Seminar, 29 Sept. 2016.**
Topic: Patient-focused aerosol drug delivery in adults (Invited).

70. **Respiratory Therapy Summer Conference, Virginia Society for Respiratory Care, Virginia Beach, Virginia, 6 June 2016.**
Topic 1: Patient-focused aerosol therapy in critical pulmonary care.

71. **Patient Assessment and Clinical Applications of Respiratory Therapy, Mustafa Kemal University, Hatay, Turkey. 28-29 May 2016.**
Topic 1: Anamnesis in patients with pulmonary diseases (Invited).
Topic 2: Assessment of cardiopulmonary symptoms (Invited).
Topic 3: Assessment of vital signs (Invited).
Topic 4: Physical assessment in respiratory therapy (Invited).
Topic 5: SOAP evaluation and documentation (Invited).
Topic 6: Aerosol drug therapy (Invited).
Topic 7: Device selection in aerosol medicine (Invited).
Topic 8: Oxygen therapy (Invited).
Topic 9: Humidification therapy (Invited).
Topic 10: Lung expansion therapy (Invited).
Topic 11: Airway management (Invited).
Topic 12: Chest physical therapy (Invited).

72. **Chest Physical Therapy Symposium, Mustafa Kemal University, Hatay, Turkey. 27 May 2016**
Topic 1: Respiratory therapy in the United States: Education, areas of practice, and its role in health care (Invited).
Topic 2: Inhalation Therapy in Critical Pulmonary Care (Invited).

73. **Georgia State University, 1st Biannual Spring Education Seminar, 21 April 2016.**
Topic: Patient-focused aerosol therapy in pulmonary critical care.

74. **Aerosol Medicine and Respiratory Care Education Program. Sanko University, Gaziantep, Turkey. 22-27 December 2015**
Topic 1: Aerosol delivery devices: Concepts and practice (Invited).
Topic 2: Device selection in aerosol medicine (Invited).
Topic 3: Inhalation therapy in critical pulmonary care (Invited).
Topic 4: Aerosol drug delivery to infants and pediatrics (Invited).
Topic 5: How to use aerosol delivery devices in clinical practice? (Invited)
Topic 6: Patient assessment in respiratory care (Invited).
Topic 7: Fundamentals of mechanical ventilation (Invited).
Topic 8: Basics of aerosol medicine (Invited).
Topic 9: Aerosol delivery devices: Concept and practice (Invited).

75. **59th International Respiratory Congress, Tampa, Florida, 6-10 November 2015.**
Topic 1: Patient-focused aerosol therapy in adults (Invited).
Topic 2: Patient-focused aerosol therapy in critical pulmonary care (Invited).
76. **41st International Congress of the Turkish Respiratory Society, Cesme, Izmir, Turkey. 17-21 October 2015.**
Topic: Inhalation therapy during noninvasive ventilation and in patients with tracheostomy (Invited).

77. **Patient Assessment and Clinical Applications of Respiratory Therapy Education Program, European University of Lefke, Cyprus, 20-21 June 2015.**
Topic 1: Anamnesis in patients with pulmonary diseases (Invited).
Topic 2: Assessment of cardiopulmonary symptoms (Invited).
Topic 3: Assessment of vital signs (Invited).
Topic 4: Physical assessment in respiratory therapy (Invited).
Topic 5: SOAP evaluation and documentation (Invited).
Topic 6: Aerosol drug therapy (Invited).
Topic 7: Device selection in aerosol medicine (Invited).
Topic 8: Oxygen therapy (Invited).
Topic 9: Humidification therapy (Invited).
Topic 10: Lung expansion therapy (Invited).
Topic 11: Airway management (Invited).
Topic 12: Chest physical therapy (Invited).

78. **Pulmonary Rehabilitation Symposium. European University of Lefke, Cyprus, 19 June 2015.**
Topic 1: Respiratory therapy in the United States: Education, areas of practice, and its role in health care (Invited).

79. **20th Congress of the International Society for Aerosols in Medicine, Munich, Germany, 1-3 June 2015.**
Topic 1: Patient-focused device selection in aerosol medicine (Invited).
Topic 2: Patient education in aerosol medicine (Invited).
Topic 3: Special issues and challenges of aerosol drug delivery through a tracheostomy (Invited).

Topic 4: Effects of heat and moisture exchangers and exhaled humidity on aerosol deposition in a simulated ventilator-dependent adult lung model.

80. Research Seminar, Federal University of Pernambuco, Recife, Brazil, 17 March 2015
Topic: Research in Aerosol Medicine: What, why, and how? (Invited)

81. Mechanical Ventilation Education Program, Istanbul Memorial Hospital, Istanbul, Turkey, 20-21 December 2014.
Topic 1: Basic terms and concepts of mechanical ventilation (Invited).
Topic 2: Effects of mechanical ventilation on ventilation and oxygenation (Invited).
Topic 3: Establishing the need for mechanical ventilation (Invited).
Topic 4: Setting initial ventilator parameters (Invited).
Topic 5: Adjusting ventilator settings according to ABGs (Invited).
Topic 6: Clinical application of mechanical ventilation (Invited).
Topic 7: Minimizing adverse pulmonary & cardiovascular effects of mechanical ventilation (Invited).
Topic 8: Patient evaluation for discontinuing ventilator support (Invited).
Topic 9: Extubation and patient monitoring during weaning (Invited).

82. World Chest Congress, Madrid, Spain, 20-24 March 2014.
Topic 1: Quantifying aerosol delivery in spontaneously breathing patients with tracheostomy using different humidification systems with or without exhaled humidity (Invited).
Topic 2: Performance comparisons of jet and mesh nebulizers with a mouthpiece, aerosol mask, and valved mask in simulated spontaneously breathing adults (Invited).
Topic 3: Aerosol delivery with jet and mesh nebulizers using different masks in spontaneously breathing infants: an in-vitro study (Invited).

83. Emory University Scientific Lecture Series, Atlanta, GA, USA, 21 January 2014.
Topic: Patient education in aerosol medicine. (Invited).

84. Patient Assessment and Home Care in Respiratory Therapy, Istanbul Memorial Hospital, Istanbul, Turkey, 4-6 January 2014.
Topic 1: Patient assessment in respiratory therapy (Invited).
Topic 2: Evaluation of vital signs (Invited).
Topic 3: Evaluation of cardiopulmonary symptoms (Invited).
Topic 4: Physical assessment of in-home care (Invited).
Topic 5: Documentation and quality control in-home care (Invited).
Topic 6: Optimizing aerosol drug delivery to patients in-home care (Invited).
Topic 7: Aerosol device selection for patients with pulmonary diseases (Invited).
Topic 8: Medical gas therapy in-home care (Invited).
Topic 9: Hyperinflation therapy in-home care (Invited).
Topic 10: Chest physical therapy in-home care (Invited).
Topic 11: Airway management in-home care (Invited).
Topic 12: Patient education in-home care (Invited).
Topic 13: Documentation and quality control in-home care (Invited).
Topic 14: Case studies in patient assessment (Invited).
Topic 15: Case studies in respiratory therapy (Invited).

85. **Yedikule Pulmonary Diseases Hospital Lecture Series, Istanbul, Turkey, 18 December 2013**
Topic: Aerosol drug delivery in critical care medicine: Device selection, technique, and optimization in aerosol therapy (Invited).

86. **39th International Congress of the Turkish Respiratory Society, Cesme, Izmir, Turkey. 2-7 October 2013.**
Topic: Nebulizers: Evaluation of old and new technologies (Invited).

87. **Basic Principles and Clinical Applications of Aerosols in Medicine, Izmir, Turkey, 2 October 2013.**
Topic 1: Patient-focused device selection in aerosol medicine (Invited).
Topic 2: Patient education in aerosol medicine (Invited).

88. **Clinical Preceptor Workshop, Atlanta, GA, 18 August 2013.**
Topic: Optimizing aerosol delivery during mechanical ventilation (Invited).

89. **24th Conference of the European Society of Pediatric and Neonatal Intensive Care, Rotterdam, the Netherlands, 12-15 June 2013.**
Topic: Quantifying delivery of albuterol with high flow nasal cannula (Invited).
90. **19th Congress of the International Society for Aerosols in Medicine, Chapel Hill, 6-10 April 2013.**
Topic 1: Patient-focused device selection in aerosol medicine (Invited).
Topic 2: Patient education in aerosol medicine (Invited).

91. **38th International Congress of the Turkish Respiratory Research Society, Cesme, Izmir, Turkey, 15-17 October 2012.**
Topic 1: Patient-focused aerosol device selection in the intensive care unit (Invited)
Topic 2: Guidelines for aerosol delivery devices: what are the differences? (Invited)

92. **Mechanical Ventilation Education Program, Istanbul Memorial Hospital, Istanbul, Turkey, 23-24 June 2012.**
Topic 1: Basic terms and concepts of mechanical ventilation (Invited).
Topic 2: Effects of mechanical ventilation on ventilation and oxygenation (Invited).
Topic 3: Establishing the need for mechanical ventilation (Invited).
Topic 4: Setting initial ventilator parameters (Invited).
Topic 5: Adjusting ventilator settings according to ABGs (Invited).
Topic 6: Clinical application of mechanical ventilation (Invited).
Topic 7: Minimizing adverse pulmonary & cardiovascular effects of mechanical ventilation (Invited).
Topic 8: Patient evaluation for discontinuing ventilator support (Invited).
Topic 9: Extubation and patient monitoring during weaning (Invited)**.**

93. **Physical Therapy Congress, Marmara University, Istanbul, Turkey, 23 May 2012.**
Topic: Extraordinary physical therapists: Arzu Ari's career path and advice to newly graduated physical therapists. (Invited).

94. **Advances in Respiratory Care Conference, Chinese Medical University, Taichung City, Taiwan, 4 March 2012.**
Topic 1: Guidelines for aerosol delivery devices in infants, pediatrics, and adults: Which

to choose and why? (Invited)
Topic 2: Optimizing aerosol drug delivery during mechanical ventilation (Invited).

95. **Research and Drug Delivery in Aerosol Medicine, Chang Gang University, Taipei, Taiwan, 3 February 2012.**
Topic: Fundamentals of research in aerosol medicine (Invited).

96. **37th International Congress of the Turkish Respiratory Research Society, Izmir, Turkey, 15 October 2011.**
Topic 1: Guidelines for aerosol delivery devices: Which to choose and why? (Invited)
Topic 2: Aerosol therapy during non-invasive ventilation (Invited).
Topic 3: Aerosol drug delivery in patients with tracheostomy (Invited).

97. **Clinical Preceptor Workshop, Atlanta, GA, 18 August 2011.**
Topic: Optimizing aerosol delivery in pediatrics and neonates (Invited).

98. **International Society for Aerosols in Medicine (ISAM) Congress, Rotterdam, The Netherlands, 18-22 June 2011.**
Topic: Nebulizers in odd places: Optimizing aerosol therapy during mechanical ventilation (Invited).

99. **Mechanical Ventilation Education Program, Istanbul Memorial Hospital, Istanbul, Turkey. 23-24 December 2010.**
Topic 1: Basic terms and concepts of mechanical ventilation (Invited).
Topic 2: Effects of mechanical ventilation on ventilation and oxygenation (Invited).
Topic 3: Effect of mechanical ventilation on lung mechanics (Invited).
Topic 4: Establishing the need for mechanical ventilation (Invited).
Topic 5: Setting initial ventilator parameters (Invited).
Topic 6: Adjusting ventilator settings according to ABGs (Invited).
Topic 7: Clinical application of mechanical ventilation (Invited).
Topic 8: Minimizing adverse pulmonary & cardiovascular effects of mechanical ventilation.
Topic 9: Patient evaluation for discontinuing ventilator support (Invited).
Topic 10: Extubation and patient monitoring during weaning (Invited)**.**

100. **56th International Respiratory Congress, Las Vegas, Nevada, 4-6 December 2010. Topic 1:** Optimizing aerosol drug delivery in spontaneously breathing children. (Invited) **Topic 2:** Assessing new technologies: Patient-device interaction and deposition. (Invited)

101. **36th International Congress of the Turkish Respiratory Research Society, Antalya, Turkey. 20 October 2010**
Topic: Optimizing aerosol drug delivery in mechanically ventilated adults (Invited).

102. **Maryland Society for Respiratory Care Conference, Ocean City, MD, 15 September 2010.**
Topic: Aerosol drug delivery during mechanical ventilation (Invited).

103. **Mechanical Ventilation Education Program, Mustafa Kemal University, Hatay, Turkey, 15-17 June 2010.**

Topic 1: Basic terms and concepts of mechanical ventilation (Invited).
Topic 2: Effects of mechanical ventilation on ventilation and oxygenation (Invited).
Topic 3: Effect of mechanical ventilation on lung mechanics (Invited).
Topic 4: Establishing the need for mechanical ventilation (Invited).
Topic 5: Setting initial ventilator parameters (Invited).
Topic 6: Adjusting ventilator settings according to ABGs (Invited).
Topic 7: Clinical application of mechanical ventilation (Invited).
Topic 8: Minimizing adverse pulmonary & cardiovascular effects of mechanical ventilation (Invited).
Topic 9: Patient evaluation for discontinuing ventilator support (Invited).
Topic 10: Patient preparation for weaning (Invited).
Topic 11: Extubation and monitoring of the patient during weaning (Invited).

104. **Clinical Preceptor Workshop, Georgia State University, 9 January 2010.**
Topic: Aerosol drug delivery during mechanical ventilation (Invited).

105. **Respiratory Care Symposium, Emory University, Atlanta, 20 Oct 2009.**
Topic: Factors affecting bronchodilator delivery in mechanically ventilated adults. (Invited).

106. **Respiratory Care Conference, Georgia Society for Respiratory Care, Macon, Georgia, 15 February 2009.**
Topic: Nebulizers in odd places: Science revisited! (Invited)

107. **54th International Respiratory Congress, Anaheim, California, Dec 2008.**
Topic: Nebulizers in odd places: Science revisited! (Invited)

108. **Clinical Applications of Respiratory Care, Pamukkale University, Denizli, Turkey, 15 May 2008.**
Topic 1: Patient assessment in respiratory care (Invited).
Topic 2: Using clinical case scenarios in respiratory care (Invited).

109. **53rd International Respiratory Congress, Orlando, Florida, December 2007.**
Topic: Antiasthma agents – Are they worth starting? (Invited)

110. **Pulmonary Diagnostics Education Program, Istanbul, Turkey, 10 June 2002.**
Topic 1: Quality assurance in spirometry. (Invited)
Topic 2: Indications of spirometry. (Invited)
Topic 3: Indications of DLCO. (Invited)

111. **2nd Respiratory Therapy Conference, Istanbul, Turkey, 19-22 May 2001.**
Topic 1: Humidity and aerosol therapy. (Invited)
Topic 2: Aerosol drug delivery. (Invited)

112. **Respiratory Care Seminar, Akdeniz University, Antalya, Turkey, 3 Aug 2000.**
Topic: Extubation (Invited).

113. **II. Pulmonary Diagnostics Conference, Istanbul, Turkey, 19-20 Nov 1999.**
Topic: Calibration and quality control procedures in pulmonary function laboratories (Invited).

114. **I. Pulmonary Diagnostics Conference, Istanbul, Turkey, 12-13 March 1999.**
Topic: Calibration and quality control procedures in pulmonary function laboratories (Invited).

115. **Physical Therapy Association, Istanbul, Turkey, 22 December 1998.**
Topic: Patient assessment in respiratory care (Invited).

116. **Cardiopulmonary Rehab. Congress, Hacettepe University. Ankara, Turkey, 19-21 November 1997.**
Topic 1: Chronic bronchitis (Invited).
Topic 2: Respiratory care education programs in the US (Invited).

117. **Alabama Society for Respiratory Care, Gulf Shores, Alabama, 1-3 Oct. 1997.**
Topic: Respiratory care profession in Turkey (Invited).

118. **GSRC Summer Meeting, Savannah, Georgia, USA. 13-16 August 1997.**
Topic: Developing respiratory care in Turkey: Current practices and future directions. (Invited).

119. **Respiratory Investigations Society, Istanbul, Turkey. 8-12 June 1997.**
Topic: The effects of chest physical therapy on selected pulmonary function tests and arterial blood gases in patients with medium and severe chronic airway obstruction (Invited).

120. **Physical Therapy Society Conference, 9 Eylul University, Izmir, Turkey. 8-9 April 1997.**
Topic: Clinical applications of noninvasive mechanical ventilation (Invited).

121. **New Applications in Pulmonary Rehabilitation. Hacettepe University, Ankara, Turkey. 24-25 March 1997. Topic:** Clinical applications of oxygen therapy (Invited).

3. Consultancies:

CHEST Foundation – August 2016 to December 2017
ARC Medical – August 2016 to August 2018.
Aerogen Ltd. – September 2009 – December 2014

4. Workshops:

N/A

5. Other Works not in Print:

a. Works "submitted" or "under review"

N/A

b. Works "in progress"

N/A

c. Other works not in print

N/A

C. GRANTS AND CONTRACTS

1. Funded External Grants and Contracts:

a. ***Title of the Project*****:** "Dr. Jim Fink's International Aerosol Medicine Training Program"
Role: PI
Funding Source: Aerogen Ltd
Dollar Amount: $54,700
Dates of Project: 7 November 2024 - 1 August 2027

b. ***Title of the Project*****: "**COVID-19 and other infectious diseases in small businesses."
Role: Co-PI.
Funding Source: US Department of Labor, Occupational Health
Dollar Amount: $200,000.
Dates of Project: 1 September 2021 – 30 June 2023

c. ***Title of the Project*****: "**Training future respiratory care practitioners in Turkey: A path to successful disease management in pulmonary medicine."
Role: PI.
Funding Source: CHEST Foundation
Dollar Amount: $15,000.
Dates of Project: 15 September 2021 – 30 June 2022

d. ***Title of the Project*****: "**Impact of filtered HME on aerosol deposition in a simulated mechanically ventilated adult lung model."
Role: PI.
Funding Source: ARC Medical
Dollar Amount: $6,436.55.
Dates of Project: 25 March 2018 – 15 December 2019

e. ***Title of the Project*****:** "Aerosol delivery through HMEs during mechanical ventilation."
Role: PI.
Funding Source: ARC Medical
Dollar Amount: $26,566.
Dates of Project: 15 December 2016 – 30 August 2017

f. ***Title of Project:*** "Effect of HME on aerosol drug delivery and airway resistance in

simulated ventilator dependent adults."
Role: PI.
Founding Source: ARC Medical
Dollar Amount: $57,000
Dates of Project: 15 December 2015 – 15 August 2016

g. ***Title of the Project*: "**Performance Comparisons of 2 Nebulizers in Simulated Spontaneously Breathing Adults and Pediatrics."
Role: PI.
Funding Source: Aerogen Ltd
Dollar Amount: $15,000.
Dates of Project: 15 December 2014 – 30 June 2015

h. ***Title of Project:*** "Quantifying Aerosol Delivery & Humidification in Spontaneously Breathing Patients with Tracheostomy."
Role: PI.
Funding Source: American Respiratory Care Foundation
Dollar Amount: $10,000.
Dates of Project: January 2011 – August 2013.

i. ***Title of Project:*** "The Impact of Nebulizers and Bias Flow on Aerosol Delivery in Ventilator Dependent Patients."
Role: PI.
Funding Source: Aerogen Ltd.
Dollar Amount: $12,500.
Dates of Project: September 2009 – August 2010.

j. ***Title of Project:*** "The Effect of Nebulizer Position on Aerosolized Albuterol Delivery in Mechanically Ventilated Infants and Children."
Role: PI.
Funding Source: Aerogen Ltd.
Dollar Amount: $5,500.
Dates of Project: June 2008 – August 2009.

2. Submitted External Grants and Contracts that are Under Review:

a. ***Title of Project:*** "Cultivating research and engaging academic talent during the education of health professionals (CREATE-HP): A bridge program from bachelor to master's degrees"
Role: PI.
Funding Source: NIH
Dollar Amount: $502,200.
Dates of Submission: February 2023.

3. Submitted but not Funded, External Grants and Contracts:

a. ***Title of the Project*: "**Educating future respiratory care practitioners in the Turkish Republic."
Role: PI.

Funding Source: CHEST Foundation
Dollar Amount: $15,000.
Dates of Project: 15 September 2023 – 30 June 2024

4. Funded Internal Grants and Contracts:

a. ***Title of the Project*****: "**Aerosol drug delivery via high flow nasal cannula to patients with chronic obstructive pulmonary disease (COPD)."
Role: PI.
Funding Source: Translational Health Research Grant, Texas State University
Dollar Amount: $5,000.
Dates of Project: 1 April 2019 – Present

b. ***Title of the Project*****: "**Comparisons of jet and mesh nebulizers using the mouthpiece, face mask, and high flow nasal cannula in simulated spontaneously breathing children." ***Role:*** PI.
Role: PI.
Funding Source: Research Enhancement Grant, Texas State University
Dollar Amount: $8,000.
Dates of Project: 8 January 2018 – 1 June 2019

c. ***Title of the Project*****: "**An in vitro comparison of nebulizers: A pilot study."
Role: PI.
Funding Source: Intramural Research Grant, Georgia State University
Dollar Amount: $7,000.
Dates of Project: 26 September 2016 – 30 June 2017

d. ***Title of the Project:*** "Aerosol drug delivery with high flow nasal cannula."
Role: PI.
Funding Source: Research Initiative Grant, Georgia State University.
Dollar Amount: $5,000
Dates of Project: 15 June 2015 – 15 August 2015

e. ***Title of the Project*****:** "Efficiency of aerosol delivery devices in mechanically ventilated patients with tracheostomy."
Role: PI.
Funding Source: Intramural Research Grant, Georgia State University.
Dollar Amount: $8,000.
Dates of Project: 15 January 2011 – 14 January 2012

f. ***Title of the Project:*** "The effect of MDI position on aerosol bronchodilator delivery in mechanically ventilated patients."
Role: PI
Funding Source: Intramural Research Grant, Georgia State University.
Dollar Amount: $4,868
Dates of Project: 1 August 2007 – 1 September 2008

g. ***Title of the Project:*** "Connecting students to institutions: The role of program resources on student retention in respiratory therapy education."
Role: PI
Funding Source: Summer Research Grant, Georgia State University
Dollar Amount: $8,325
Dates of Project: June 2006 – August 2006

4. ***Submitted, but not Funded, Internal Grants and Contracts:***

N/A

D. FELLOWSHIPS, AWARDS, & HONORS

2024 Forest Bird Lifetime Scientific Achievement Award, American Respiratory Care Foundation.
21 November 2024
The Forest Bird Lifetime Scientific Achievement Award is presented to individuals who have made extraordinary contributions to the advancement of science through a lifetime of dedication, innovation, and impactful research. Recipients of this prestigious award are recognized for their exceptional achievements, influential discoveries, and lasting impact on their field, serving as an inspiration to the global scientific community.

2023 Regent's Professor Award, the Texas State University System.
17 November 2023
The Regent's Professor Award is given by the Board of Regents at the Texas State University System and only 42 faculty members from across the System have received the Regents' Professor Award since its inception, placing awardees among the most esteemed faculty from across our seven institutions in the state of Texas.

2022 Hector Leon Garza, MD, Achievement Award for Excellence in International Respiratory Care, International Council for Respiratory Care.
8 November 2022
This award recognizes respiratory therapists and physicians who have had a profound impact on the development of international respiratory care.

2022 Louis Sinopoli Faculty Research Scholarship in Respiratory Care Education. Coalition of Accrediation for Respiratory Care.
25 July 2022
This award is given by the Coalition for Accreditation in Respiratory Care annually to a faculty member of a CoARC-accredited program for educational or accreditation research with practical value to the respiratory care profession.

2020 Presidential Award for Excellence in Scholarship and Creative Activity, Texas State University
21 June 2020, San Marcos, Texas.
This award was given by Texas State University to acknowledge excellence in scholarship and creative activity.

2020 Fellow of the American College of Chest Physicians (FCCP)
14 April 2020
This award is given only to those who are deemed to have had a profound and lasting effect in chest medicine at the national and international levels.

2020 First Place in Faculty Research Award, 24th Annual Faculty/Student Research Forum at Texas State University.
7 April 2020, Round Rock, Texas
This award was given by the College of Health Professions (CHP) at Texas State University to acknowledge the best three posters submitted by faculty to the CHP Research Forum.

2020 Second Place in Faculty Research Award, 24th Annual Faculty/Student Research Forum at Texas State University.
7 April 2020, Round Rock, Texas
This award was given by the College of Health Professions (CHP) at Texas State University to acknowledge the best three posters submitted by faculty to the CHP Research Forum.

2020 Third Place in Faculty Research Award, 24th Annual Faculty/Student Research Forum at Texas State University.
7 April 2020, Round Rock, Texas
This award was given by the College of Health Professions (CHP) at Texas State University to acknowledge the best three posters submitted by faculty to the CHP Research Forum.

2019 Presidential Distinction Award for Excellence in Scholarly/Creative Activities.
20 August 2019, San Marcos, Texas.
This award was given by the College of Health Professions at Texas State University to acknowledge excellence in scholarship.

2019 The 1st Place College of Health Professions Research Forum Poster Award.
15 April 2019, San Marcos, Texas.
This award was given by the College of Health Professions (CHP) at Texas State University to acknowledge the best three posters submitted by faculty to the CHP Research Forum in 2019.

2019 The 3rd Place College of Health Professions Research Forum Poster Award.
15 April 2019, San Marcos, Texas.
This award was given by the College of Health Professions (CHP) at Texas State University to acknowledge the best three posters submitted by faculty to the CHP Research Forum in 2019.

2019 Translational Health Research Award.
29 March 2019, San Marcos, Texas.
This award was given by Texas State University to recognize a scholar performing translational research in health care and have shown a commitment to excellence in scientific discovery by fostering innovative research and cultivating multi-disciplinary research partnerships.

2018 Mitchell A. Baran Achievement Award for Clinical Excellence in Aerosol and Airway Clearance Therapies.
4 December 2018, Las Vegas, Nevada.
This award is given by the American Respiratory Care Foundation to recognize and honor those individuals demonstrating clinical excellence and leadership in advocating and promoting the use of evidence-based, clinically sound practices for the delivery of aerosolized medications and the

application of non-pharmacologic airway clearance therapies.

2018 Distinguished Faculty Award.
3 November 2018, Hangzhou, China.
This award is given by the Zhejiang Respiratory Care Alliance in China to honor individuals promoting aerosol medicine and respiratory care in China.

2011 Fellow of the American Association for Respiratory Care (FAARC).
5 November 2011, Tampa, Florida.
This award is given only to those who are deemed to have had a profound and lasting effect on the respiratory care community at the national level.

2011 ARCF Monaghan/Trudell Fellowship for Aerosol Technique Development.
5 November 2011, Tampa, Florida.
This award is given to Mr. Maher AlQuaimi, one of my advisees, whom I chaired his research project by selecting the research questions, designing the research methods, analyzing data, and preparing his abstract and poster for the AARC Congress.

2011 Best Poster Presentation Award.
20 October 2011, Izmir, Turkey.
This award is given by the Turkish Respiratory Society to the best poster presentation based on scientific merit and presentation style.

2010 ARCF Monaghan/Trudell Fellowship for Aerosol Technique Development.
6 December 2010, Las Vegas, Nevada.
This award is given to Ms. Susan Roark, my former student at GSU, whom I chaired her research project by selecting the research questions, designing the research methods, analyzing data, and preparing her abstract and poster for the AARC Congress.

2009 Volunteer Excellence Award.
4 December 2009, San Antonio, Texas.
This award is given by Timothy Myers, President of the American Association for Respiratory Care (AARC), to individuals for their outstanding contributions to the profession.

2009 Faculty Member of the Phi Beta Delta International Honor Society.
12 January 2009, Atlanta, Georgia.
This award is given by the Phi Beta Delta International Honor Society to an international faculty member who represents academic excellence and scholarly achievement in their profession.

2008 ARCF Monaghan/Trudell Fellowship for Aerosol Technique Development. 7 December 2008, Anaheim, California.
This award is given by the American Respiratory Care Foundation (ARCF) to a scholar who contributes to the field of respiratory care with innovative research projects dealing with aerosol delivery issues ($1,000 cash award, crystal sculpture, and travel expenses to the 54th AARC International Respiratory Care Conference in December 2008).

2008 Faculty Member of the Lambda Beta Society.
18 March 2008, Atlanta, Georgia.
This award represents the achievement of the highest academic excellence in the profession of Respiratory Care (A certificate of recognition).

2003 First Place Photography Award.
17 November 2003, Atlanta, Georgia.
"Crossing Cultures, Crossing Paths Photography Contest" Georgia State Uni. Atlanta, GA ($75 cash award and a certificate of recognition).

2003 Medallion for Outstanding GPA & Scholarly Achievement.
1 April 2003, Atlanta, GA.
This award is given by the Phi Beta Delta International Honor Society, Atlanta, GA to international students who have outstanding GPAs and demonstrate scholarly achievement during their graduate studies (A medallion and a certificate of recognition).

2003 International Excellence Award.
21 November 2003, Atlanta, Georgia.
This award is given by John F. Hicks, Provost of International Affairs at Georgia State University, Atlanta, GA in honor of the outstanding contribution to international education through international organizations, research, and professional training in support of sound educational growth (A certificate of recognition).

2002 Allied Health Care Professional Congress Travel Grant.
17 September 2002, Atlanta, Georgia.
This award is given by the European Respiratory Society (ERS) to the best abstract submitted to the session of allied health care professionals at the International Respiratory Congress in Stockholm, Sweden. (CHF 1,000 cash award, a certificate of recognition, and travel grant).

2000 Gareth Gish Postgraduate Education Recognition Award.
7 Oct. 2000, Cincinnati, OH.
This award is given by the American Respiratory Care Foundation (ARCF) in Cincinnati, Ohio to a respiratory therapist pursuing an advanced degree and making important contributions to the science of respiratory care ($1,500 cash award, certificate of recognition and travel expenses to the AARC International Congress in 2000).

IV. SERVICE

A. Institutional

1. ***University:***

Responsible Research Conduct Committee, January 2023 – Present.
Council of Associate Deans for Research, July 2023 – Present.
Graduate College Student Research Scholarship Committee, September 2022 – Present.
Mission Review Task Force, Texas State University – January 2022 – May 2022.
Vice President for Research/Chief Research Officer Search Committee, December 2020 – October 2021.
International Research Accelerator Review Committee, September 2021 – Present.
MIRG Proposal Review Committee, October 2020 – Present.
Council of Funded Research, September 2020 – June 2023.

Jacobs Advisory Board, September 2020 – Present.
Presidential Award for Excellence in Research Review Committee, September 2020 – Present.
Denise Trauth Presidential Fellow Review Committee, September 2020 – Present.

2. ***College:***

Research Coordinator Search Committee, December 2022 – April 2023..
Bobcat Day – October 2022
College Council, August 2021 – Present.
CHP REP Committee, September 2020 – Present.
Research Forum Committee, September 2020 – Present.
Faculty Development Committee, September 2020 – Present.
Research Coordinator Search Committee, September 2020 – March 2021.
Bobcat Day – February 2020
Bobcat Day – November 2018
Bobcat Day – February 2018
Student Scholarship Committee – September 2017 – September 2021.

3. ***Department/School:***

Personnel Committee, August 2020 – Present.
Respiratory Care Faculty Search Committee, April 2018 – May 2019.
Respiratory Care Department Scholarship Committee, November 2017 – May 2019.

B. Professional

1. *Guest Editor, Pharmaceutics: January 2021 – Present.*

2. *Review Editor, Frontiers in Medicine: August 2022 – Present.*

3. *Associate Editor, Canadian Journal of Respiratory Therapy: December 2021 – Present.*

4. *The COPD Nebulizer Consortium, Member, The COPD Foundation – January 2020 – Present*

5. *The International Education Recognition System, Chair, The International Council for Respiratory Care – December 2020 – Present*

6. *Scientific Committee, Member, The International Society for Aerosols in Medicine (ISAM) – June 2020 – Present*
As a member of this committee, I help ISAM prepare the international congress in aerosol medicine.

7. *CHEST Conference Proposal Review Committee, Member, American College of Chest Physicians – August 15, 2019 – Present*
I review 30 to 50 conference proposals submitted to the CHEST conferences every year.

8. *CHEST Abstract Review Committee, Member, American College of Chest Physicians – August – August 15, 2019 – Present*
I review 50 to 80 abstracts submitted to the CHEST conferences every year.

9. *CHEST Respiratory Care Steering Committee, Member, American College of Chest Physicians* – August 15, 2018 – Present
I serve on the Respiratory Care Committee of the American College of Chest Physicians to present respiratory therapists and the profession at CHEST.

10. *AARC Abstract Review Committee*, Member *American Association for Respiratory Care – May 2018 – Present.*
I reviewed the abstracts that are submitted to the AARC conference every year.

11. *CHEST Steering Committee "COPD Delivery Makes a Difference" American College of Chest Physicians (CHEST) – August 15, 2016 to December 15, 2017*
I served on this Steering Committee at the American College of Chest Physicians since August 2016. As the only non-physician member of the committee, I conducted a research project with the committee members and developed guidelines on the selection and use of aerosol delivery devices for physicians and healthcare professionals.

12. *Governor of Turkey, International Council for Respiratory Care – November 1997 to Present*
As a strong advocate for the development of the respiratory care profession worldwide, I have been serving as the Governor for Turkey at the International Respiratory Care Council from 1997.

13. *International Council for Respiratory Care (ICRC), Member – November 1997 to Present*
I am the first Turkish official member elected by the International Council for Respiratory Care. In that capacity, I promote the new profession of respiratory care in Turkey, where I am originally from. I have been serving on ICRC since November 7, 1997.

14. *International Committee for Respiratory Care, Member, American Respiratory Care Foundation – January 2009 to Present*
Since January 2009, I have served as a member at the International Respiratory Care Committee of the American Respiratory Care Foundation (ARCF). I was involved in the International Fellowship program of ARCF. As a member of this committee, I am responsible for selecting international doctors, therapists, and nurses who applied for the fellowship program from all over the world. As a committee liaison, I also organize and supervise the 3-week fellowship program that is held at two different cities in the US each year.

15. *New and Emerging Aerosol Technologies Working Group, Member, International Society for Aerosol Medicine – May 2009 to Present*
I have been serving on the New and Emerging Aerosol Technologies Working Group of the International Society for Aerosols in Medicine since May 2009 and was elected as co-chair by the group in April 2013.

16. *Pediatric Aerosol Therapy Working Group, Member, International Society for Aerosol Medicine – May 2009 to Present*
I have been a member of the Pediatric Aerosol Therapy Working Group at the International

Society for Aerosols in Medicine since May 2009.

17. *Inhalation Therapies Working Group, Vice Chair, International Society for Aerosol Medicine – October 2011 to Present*
I was elected as vice president of the Inhalation Therapies Working Group at the Turkish Respiratory Society and have been working with group members since October 2011. I acted as a liaison between the Turkish Respiratory Society and the International Society for Aerosols in Medicine to establish collaboration between them. We prepared four education programs for Turkish pulmonologists and healthcare professionals.

18. *Reviewer in Scientific Journals:* As for my service in professional organizations, I am a reviewer of *Pharmaceutics, Annals of Translational Medicine, Critical Care, BMJ Open, PlosOne, European Respiratory Journal, Respiratory Care, Journal of Allied Health, Journal of Asthma, Expert Opinion on Drug Delivery, Advanced Therapeutics in Respiratory Therapy, Pediatric Pulmonology, Respiratory Medicine and Pediatrics*.

19. *Membership in Editorial Board:* I serve on the editorial board of the *Journal of Aerosol Medicine and Pulmonary Drug Delivery, Canadian Journal of Respiratory Therapy, and Eurasian Journal of Pulmonology*. Also, I have been the topic editor and guest editor in Pharmaceutics.

20. *Tracheostomy Guideline Committee of the International Society for Aerosols in Medicine (ISAM):* I served on the Tracheostomy Guideline Committee of ISAM and prepared a guide on aerosol drug delivery through tracheostomy with 8 physicians and aerosol scientists from the United States of America, Canada, England, Denmark, Israel and Turkey that were selected by the International Society for Aerosol Medicine and Pulmonary Drug Delivery.

21. *Clinical Practice Guidelines Committee:* This committee made recommendations for clinical practice, using an evidence-based approach. As a member of this committee, I prepared a clinical practice guideline on aerosol drug delivery and the use of aerosol delivery devices in adults and children. I was also responsible for reviewing other clinical practice guidelines prepared by the committee.

Professional Memberships:

European Respiratory Society, February 2019 – Present.
American College of Chest Physicians, April 2018 – Present.
Lambda Beta Society for Respiratory Care, September 2007 – Present.
National Board for Respiratory Care, August 2007 – Present.
International Society for Aerosol Medicine, Member, December 2007 – Present**.**
American Association for Respiratory Care, Member, October 1995 – Present.
International Council for Respiratory Care, Member, November 1997 – Present.
Phi Beta Delta International Honor Society, Member, March 2003 – Present.
Turkish Respiratory Society, October 2009 – Present.
Turkish American Cultural Association, Member, August 2010 – Present.
Clinical Practice Guidelines Committee, AARC, May 2010 – 2012.
Turkish Thoracic Society, Member, April 1997 – December 1999.
Turkish Physical Therapy Association for Turkey, Member, September 1993 – August 1996.

C. Community:

State of Texas Negotiated Rule Making Committee for Minority Research, Sept. 2020 – Sept 2021

D. Service Honors and Awards:

2022 Honorary Member of the Taiwan Society for Respiratory Therapy. 10 November 2022
It is given by the Taiwan Society for Respiratory Therapy to a respiratory therapist who have made significant contributions to the profession of respiratory care in Taiwan.

Governor of Turkey at the International Council for Respiratory Care, 7 November 1997-Present

E. Service Grants and Contracts

1. Funded External Service Grants and Contracts:
   N/A

2. Submitted, but not Funded, External Service Grants and Contracts:
   N/A

3. Funded Internal Service Grants and Contracts:
   N/A

4. Submitted, but not Funded, Internal Service Grants and Contracts:
   N/A

Updated January_2025