



Fai Ali I Albuainain

Demonstrator

Personal Data

Nationality | Saudi

Date of Birth | 09/01/1995

Department | Respiratory Care

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Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2023	Master Degree in Respiratory Care	Rush University	US, IL
2016	Bachelor Degree in Respiratory Care	Imam Abdulrahman bin Faisal University	KSA, Dammam

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

Master	Aerosol delivery to simulated spontaneously breathing tracheostomized adult model with and without humidification
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Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Demonstrator	IAU- College of Applied Medical Sciences	2018 – Present
RC therapist	King Fahad University Hospital	2020
RC therapist	King Fahad Specialist Hospital - Dammam	2017
Intern	King Faisal Specialist Hospital & Research Center - Riyadh	2016



Trainee	Saud Babtain Cardiac Center	2015
Student	College of Applied Medical Sciences	2012-2016

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Fai AlBuainain and Jie Li	Aerosol delivery to simulated spontaneously breathing tracheostomized adult model with and without humidification	Respiratory Care, 2024
2	Jie Li, Ni Deng, Wan Jia Aaron He, Cui Yang, Pan Liu, Fai A. Albuainain , Brian J. Ring, Andrew G. Miller, Alexandre T. Rotta, Robert D. Guglielmo and Christophe Milési	The effects of flow settings during high-flow nasal cannula oxygen therapy for neonates and young children	European Respiratory Review, 2024
3	Jie Li [#] , Fai A Albuainain [#] , Wei Tan, J Brady Scott, Oriol Roca, Tommaso Mauri	The effects of flow settings during high-flow nasal cannula support for adult subjects: a systematic review	Critical Care Journal, 2023
4	Fay Ali Albuainain , Mashail Mamdouh Alrayes, Bushra Ali Alenazi and Nora Sulaiman Alwohayeb,.	A Comparison between Two Types of Resistive Inspiratory Muscle Training Devices in Normal Subjects in Regards to Pulmonary Functions	International Journal of Physical Medicine and Rehabilitation, 2019

[#] equal contribution



Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Jie Li, Ni Deng, Wanjia He, Cui Yang, Pan Liu, Fai Albuainain , Brian Ring, Andrew Miller, Alexandre Rotta, Robert Guglielmo, Christophe Milesi	Effects of flows during high-flow nasal cannula for neonates and pediatrics: a systematic review	Society of Critical Care Medicine, 2024
2	Fai AlBuainain , Jie Li	Aerosol delivery to simulated spontaneously breathing tracheostomized adult with and without unheated humidification	American Association of Respiratory Care Congress, 2023
3	Fai AlBuainain , Xiyan Man, Jie Li	Aerosol delivery to simulated spontaneously breathing tracheostomized pediatrics with heated and unheated humidification	American Association of Respiratory Care Congress, 2023
4	Fai AlBuainain , Xiukai Chen, Jie Li	Aerosol delivery to simulated spontaneously breathing tracheostomized adult with heated humidification	American Association of Respiratory Care Congress, 2023
5	Raghad Abulkhair, Fai Albuainain , Jie Li	Continuous albuterol delivery using heliox for pediatric patients	American Association of Respiratory Care Congress, 2023
6	Christopher Gore, Fai Albuaiainin , Jie Li	A physiological study to assess the effects of awake prone positioning in healthy volunteers under different respiratory support	American Association of Respiratory Care Congress, 2023
7	Ping Liu, Shan Lyu, Eduardo Mireles-Cabodevila, Andrew G Miller, Fai A Albuainain , Miguel Ibarra-Estrada, Jie Li	Survey of Ventilator Waveform Interpretation Among ICU Professionals	American Association of Respiratory Care Congress, 2023
8	Jie Li, Ni Deng, Wanjia He, Cui Yang, Pan Liu, Fai A Albuainain ,	Effects of Flows during High-Flow Nasal Cannula for Neonates and Pediatrics: A Systematic Review	Society of Critical Care Medicine, 2023



Brian Ring, Andrew G Miller, Alexandre T Rotta, Robert D Guglielmo, Christophe Mile'si		
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Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	Jie Li, [#] Shan Lyu, [#] Jian Luo, [#] Ping Liu, [#] Fai A Albuainain, [#] Omar A Alamoudi, ¹ Violaine Rochette, ⁶ Stephan Ehrmann. ⁶	Can topical use of antibiotics reduce ventilator-associated pneumonia in mechanically ventilated patients: A meta-analysis and systematic review	2023
2	Fai AlBuainain, Jie Li	Effects of an asymmetrical high flow nasal cannula on airway pressure	2023
3	Fai AlBuainain, Aminah Almomen, Jie Li	Exposure of healthcare providers to aerosol therapy	2023
4	Jie Li, Ni Deng, Wanjia He, Cui Yang, Pan Liu, Fai A Albuainain, Brian Ring, Andrew G Miller, Alexandre T Rotta, Robert D Guglielmo, Christophe Mile'si	Effects of Flows during High-Flow Nasal Cannula for Neonates and Pediatrics: A Systematic Review	2023
6	Raghad Abulkhair, Fai Albuainain, Jie Li	Continuous albuterol delivery using heliox for pediatric patients	2023
7	Fai AlBuainain, Xiyang Man, Jie Li	Aerosol delivery to simulated spontaneously breathing tracheostomized pediatrics with heated and unheated humidification	2023
8	Fai AlBuainain, Xiyang Man, Jie Li	Effect of ventilator settings, connections, humidification, and nebulizer position on aerosol delivery during invasive ventilation	2023
9	Fai AlBuainain, Jie Li	Aerosol delivery to simulated spontaneously breathing tracheostomized adult with and without unheated humidification	2023



10	Fai AlBuainain, Xiukai Chen, Jie Li	Aerosol delivery to simulated spontaneously breathing tracheostomized adult with heated humidification	2023
11	Christopher Gore, Fai Albuainin, Jie Li	A physiological study to assess the effects of awake prone positioning in healthy volunteers under different respiratory support	2023
12	Ping Liu, Shan Lyu, Eduardo Mireles-Cabodevila, Andrew G Miller, Fai A Albuainain, Miguel Ibarra-Estrada, Jie Li	Survey of Ventilator Waveform Interpretation Among ICU Professionals	2023
13	Jie Li [#] , Fai A Albuainain [#] , Wei Tan, J Brady Scott, Oriol Roca, Tommaso Mauri	The effects of flow settings during high-flow nasal cannula support for adult subjects: a systematic review	2022
14	Fay Ali Albuainain, Mashail Mamdouh Alrayes, Bushra Ali Alenazi and Nora Sulaiman Alwohayeb.	A Comparison between Two Types of Resistive Inspiratory Muscle Training Devices in Normal Subjects in Regards to Pulmonary Functions	2019

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	American Association of Respiratory Care Congress 2023	US, 2023	Poster and presentation
2	Saudi Critical Care Society: The Current and Future of HFNC Therapy: Expert Views Cross Continents	Virtual, 2023	Presentation
3	Gulf Thoracic	UAE, 2017	Poster
4	16 th Respiratory Care Club in Eastern Province	Dammam, 2016	Organizer



Membership of Scientific and Professional Societies and Organizations

- Member in International Society of Aerosol Medicine
- Member in American Association of Respiratory Care
- Member in Saudi Society of Respiratory Care
- Member in Saudi Heart Association
- Member in Saudi Society for Simulation in Healthcare

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code
1	Cardiopulmonary Intensive Care	RT 423
2	Respiratory Care Therapeutics	RT 224 R
3	Medical Gases Therapy	RT 216 R
4	Pulmonary Rehabilitation	RT 414
5	Neonatal and Pediatric Respiratory Care	RT 411
6	RC Exam Review	RT 422 R
7	Clinical Practice I	RT 225
8	Clinical Practice II	RT 315
9	Clinical Practice III	RT 325
10	Clinical Practice IV	RT 423
11	Clinical Practice V	RT 423

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	Level 4	14	2023	Present
2	Level 3	16	2020	2021
3	Level 7	15	2019	2020



Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
1	Bachelor	The healthcare providers knowledge about the current clinical practices regarding HFNC	IAU	2023

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
1	2018	Present	Coordinator	CAMSJ Sports Team

Committee Membership

#	From	To	Position	Organization
1	2021	Present	Member	RC curriculum development committee
2	2020	Present	Head	Clinical Training and Internship Unit
3	2018	2020	Coordinator	Clinical Training Unit
4	2019	Present	Member	Fire extinguishing committee
5	2018	Present	Member	Exam quality and electronic correction committee

Last Update

30/03/2024