

Malaysian Society of Anaesthesiologists &

College of Anaesthesiologists, AMM

ANNUAL SCIENTIFIC CONGRESS 2023

MyAnaesthesia 2023: LEAD –
Leadership and Excellence in Anaesthesia Development
ABSTRACT BOOK

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1. Messages

The Organising Chairperson

Professor Dr Ina Ismiarti Shariffuddin

President, Malaysian Society of Anaesthesiologists & Organizing Chairperson, MSA and CoA Annual Scientific Congress 2023

It is with great pleasure and pride, on behalf of the Organising Committee, I welcome all of you to the Malaysian Society of Anaesthesiologists and College of Anaesthesiologists, Academy of Medicine of Malaysia Annual Scientific Congress, MyAnaesthesia 2023, in

conjunction with the MSA Diamond Jubilee Anniversary. I would like to thank the Premier of Sarawak YAB Datuk Patinggi Tan Sri (Dr) Abang Hauji Saufi Abdul Rahman Zohari bin Tun Datuk Abang Haji Openg, for officiating this congress.

This year's theme, "Leadership and Excellence in Anaesthesia Development (LEAD)", underscores our commitment to exploring new frontiers, empowering visionary leaders, and fostering a culture of excellence in our patient management. We believe Anaesthesiologists play a vital role in healthcare. The provision of Anaesthesia is an intricate intersection of science, technology, and human compassion. It is the cornerstone of patient safety and comfort, particularly in surgery, interventional medical procedures, and critical care management.

With these considerations, this esteemed Congress brings together brilliant minds, internationally and locally, to share the goal of advancing anaesthesia and paving the way for a future marked by exceptional leadership and unwavering effort to uphold patient safety at every level of our care. Our Scientific Committee, chaired by Associate Professor Dr Muhammad Maaya, had arranged an excellent series of lectures apt to the theme of this Congress which includes plenary talks by the President of the World Federation of Societies of Anaesthesiologists (WFSA), Associate Professor Dr Wayne Morris, on the "Global Priorities for Anaesthesiology in the Post Covid Era" and a presentation by the Chair of the Asian Australasian Regional Section of WFSA, Dr Chris Bowden, on "Leadership in Anaesthesia".

In conjunction with our Diamond Jubilee Anniversary of MSA, we invite our faculty, participants, esteemed life members and our sponsors to celebrate the Gala Dinner with the theme, “Diamonds in the Jungle”. This will be a good opportunity for everyone in the fraternity to renew our acquaintances and bond with colleagues. Last but not least, we would encourage our participants to discover Sarawak, the Land of the Hornbills.

I would like to thank the secretariat and the biomedical industries for your unwavering support. A special thanks to the local organising committee, led by Dr Hasmizy Muhammad, who worked relentlessly to ensure the success of this Congress. To all participants, a huge thanks for participating. We trust the beautiful nature of Sarawak, the hospitality of multiethnicities of Sarawak, and the apt scientific programme will provide you a fruitful, fascinating, and memorable experience.

We welcome you to Kuching, Sarawak, for MyAnaesthesia 2023.

The Deputy Organising Chairperson

Professor Dr Marzida Mansor

President, College of Anaesthesiologists, Academy of Medicine of Malaysia & Deputy Organising Chairperson, MSA and CoA Annual Scientific Congress 2023

It is with great honour and pleasure that I extend my warmest welcome to each one of event which serves as a platform for sharing knowledge, fostering collaboration, and continuous learning and innovation in the realm of Anaesthesiology.

This year's Congress promises to be an exceptional experience, as the theme will be LEAD: Leadership and Excellence in Anaesthesia Development, where we will witness cutting-edge research, hear from distinguished experts, and engage in fruitful discussions that will shape the future of our specialty. Throughout this Congress, we encourage you to explore the diverse array of topics in Anaesthesiology, from the latest advancements in technology and pharmacology to the ethical considerations that guide our practices.

Additionally, I encourage all attendees to seize this opportunity to network and collaborate with fellow professionals from different corners of the globe. The connections made during this Congress often blossom into lifelong friendships and fruitful collaborations, paving the way for more discoveries in the future.

I extend my heartfelt gratitude to the main and local organising committee, sponsors, and all the individuals whose hard work and dedication have made this event possible. Together, in Kuching, Sarawak, we will create an unforgettable gathering that will make this Congress a resounding success, advancing the frontiers of Anaesthesiology, and shaping a brighter future for our patients and our profession.

The Scientific Chairperson

*Associate Professor Dr Muhammad Maaya
Scientific Chairperson, MSA and CoA Annual Scientific Congress 2023*

Welcome to the 60th Annual Scientific Congress of the Malaysian Society of Anaesthesiologists and the College of Anaesthesiologists, Academy of Medicine of Malaysia.

Back in June 2013, our Annual Congress, which was still known as Annual Scientific Meeting, was also held in Kuching, Sarawak, in conjunction with the 12th Asian and Oceanic Society of Regional Anaesthesia and Pain Medicine Congress. This wonderful city was lucky to be the host for the auspicious Golden Jubilee Anniversary back then, and again for the Diamond Jubilee Anniversary. I am confident that the event will be just as great. The anaesthesia conduct and equipment may have changed over the last ten years, but the pursuit of medical education and professional development, which is part and parcel of every professional field, remains as strong as ever. I hope you will take advantage of what we have in store.

Every year, our fraternity looks forward to this Annual Scientific Congress, as we have various symposia and speakers lined up which would appeal and be of interest to all, from those new in the specialty to the experienced ones. Our theme MyAnaesthesia LEAD: Leadership and Excellence in Anaesthesia Development will be in tandem with our strong important role in patient care despite providing service to other departments, as well as new changes in our practice of anaesthesia, pain medicine and critical care.

I hope you will take time to experience the symposia and workshops that may guide the direction and future of our profession. To all the speakers and delegates who have joined us near and far, please take this great opportunity to reacquaint with old friends or create brand new networks with each other. To the Organising, Local Organising, and my Scientific Committees, as well as the trade exhibitors and Secretariat who have worked hard to help make this congress a smooth and successful event, I thank you all from the bottom of my heart for your contribution.

Have a stimulating and fruitful congress, everyone!

2. Malaysian Society of Anaesthesiologists

Executive Committee 2022-2023

President	Professor Dr Ina Ismiarti Shariffuddin
President-Elect	Dato' Dr Yong Chow Yen
Chairperson	Dato Dr Jahizah Hassan
Honorary Secretary	Associate Professor Dr Azarinah Izaham
Director of Finance & Property Management	Dato' Dr Seah Keh Seng
Director of Education	Associate Professor Dr Azarinah Izaham
Director of Internal Affairs	Dr Hasmizy Muhammad
Director of Foreign Affairs	Professor Dr Marzida Mansor
Director of Members' Affairs	Dr Gunalan Palari
Director of Research Development	Associate Professor Dr Loh Pui San
Director of Public Relations	Dr Mohd Azizan Ghazali
Director of IT and Visibility	Dr Mohd Fitry Zainal Abidin
Director of Publications	Dr Anand Kamalanathan
Director of Strategy and Planning	Dr Mafeitzeral Mamat

3. College of Anaesthesiologists, AMM Council 2022-2023

President	Professor Dr Marzida Mansor
Vice President	Professor Dr Ina Ismiarti Sharifuddin
Honorary Secretary	Datin Dr Vanitha Sivanaser
Honorary Treasurer	Associate Professor Dr Muhammad Maaya
Council Members	Associate Professor Dato' Dr Wan Rahiza Wan Mat Dr Gunalan Palari Dr Hasmizy Muhammad
Coopted Council Members	Dato Dr Jahizah Hassan Dato' Dr Yong Chow Yen

4. Organising Committee

Advisor	Dato Dr Jahizah Hassan
Organising Chairperson	Professor Dr Ina Ismiarti Shariffuddin
Deputy Organising Chairperson	Professor Dr Marzida Mansor
Local Organizing Chairperson	Dr Hasmizy Muhammad
Honorary Secretary	Associate Professor Dr Azarinah Izaham
Honorary Treasurer	Dato' Dr Seah Keh Seng
Scientific Committee	Associate Professor Dr Muhammad Maaya (Chair) Associate Professor Dr Azarinah Izaham
Sponsorship	Dr Gunalan Palari Associate Professor Dato' Dr Wan Rahiza Wan Mat Dr Mohd Azizan Ghazali
Publications	Datin Dr Vanitha Sivanaser Professor Dr Rafidah Atan
Promotion & Publicity	Dato Dr Jahizah Hassan Associate Professor Dr Loh Pui San
Audiovisual and Technical Committee	Dr Mohd Fitry Zainal Abidin Dr Mafeitzeral Mamat Dr Anand Kamalanathan
Social	Local Organising Committee

5. Scientific Committee

Associate Prof Dr Muhammad Maaya (Chair)

Associate Prof Dr Azarinah Izaham

Assistant Professor Dr Muhammad Rasydan Abd Ghani

Dr Thanesh Kumar Sinasamy

Dr Wan Aizat Wan Zakaria

Assoc Prof Dr Wan Fadzlina Wan Mohd Shukeri

ID: 84**HIGH FLOW NASAL OXYGEN THERAPY IN PREVENTING POST EXTUBATION HYPOXAEMIA AND POSTOPERATIVE PULMONARY COMPLICATIONS: A SYSTEMATIC REVIEW AND META-ANALYSIS****Jamie Tan Wen Yen¹, Azarinah Izaham¹, Raha Abd Rahman¹, Azrina Md. Ralib², Chin Kok Yong¹, Rufinah Teo¹, Muhammad Maaya¹, Aliza Muhammad Yusof¹**¹Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia; ²International Islamic University Malaysia, Kuantan, Pahang, Malaysia**Background**

High flow nasal oxygen therapy (HFNOT) has gained popularity in recent years in the treatment of respiratory failure in post-extubation of non-surgical and surgical patients. This systematic review and meta-analysis investigated the role of HFNOT in reducing the incidence of postoperative pulmonary complications (PPC) and post-extubation hypoxaemia.

Methods

A comprehensive search of PubMed, Scopus, EBSCOHost, ProQuest, Ovid MEDLINE and Web of Science was performed. Randomised controlled trials (RCTs) that compared HFNOT to conventional oxygen therapy (COT) during the postoperative period were identified. Data were pooled and estimates of effect were reported using odds ratio for dichotomous outcomes and mean difference for continuous outcomes, with 95% confidence intervals.

Results

Seventeen RCTs (n = 1761 patients) were included. Compared to COT, HFNOT reduced the incidence of PPC (OR 0.66, 95% CI 0.47 – 0.91, p = 0.01), hospital length of stay (MD = -0.31, 95% CI -0.53 – -0.1, p = 0.004) and mortality rates (OR 0.3, 95% CI 0.11 – 0.82, p = 0.02). HFNOT also resulted in significantly higher PF ratio (MD 18.17, 95% CI 9.76 – 26.57, p < 0.0001). In the subgroup analysis, the incidence of PPC was significantly lower in patients who had HFNOT applied for more than 24 hours (OR 0.5, 0.28 – 0.88 95% CI) and in non-cardiothoracic surgeries (OR 0.57, 0.38 – 0.85 95% CI). PF ratio was also significantly higher in non-cardiothoracic surgeries (MD 32.36,

19.88 – 44.84 95% CI). However, PF ratio was found to be better in the HFNOT group when applied for 24 hours or less (MD 33.96, 19.25 – 48.67 95% CI).

Conclusion

This meta-analysis suggests that HFNOT reduces the incidence of PPC and improves PF ratio, resulting in less post-extubation hypoxaemia. It was associated with lower mortality rates and shorter length of stay in the hospital. Larger trials should be conducted to validate these findings.