

Keibun Liu, M.D., PhD,
Curriculum Vitae

16 July 2023

Current Appointments

Postdoctoral research fellow, Critical Care Research Group, The Prince Charles Hospital, Australia

Visiting Academic, Institute for Molecular Bioscience, The University of Queensland, Australia

Core Research Manager, Non-Profit Organization, ICU Collaboration Network, Japan
A Founding Committee Member, Non-Profit Organization, Japan ECMOnet, Japan



Major Subject: Medicine

Academic Degree: M.D., PhD

Web (PubMed): <https://pubmed.ncbi.nlm.nih.gov/?term=keibun+liu&sort=date>

Web (Google Scholar): https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=keibun+liu&btnG=

Personal Details

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E-Mail: keiliu0406@gmail.com

Date of Birth: 06/04/1986 (Age: 37)

Nationality: Japanese

Status: Married

Career Summary / Research Objective

I worked as an intensive care specialist in Japan for 10 years. I was awarded the Doctor of Philosophy in 2019. His thesis examined evidence-based ICU care to improve the quality of ICU care and patients' outcomes, including mobilizing patients in their early ICU stay, which is currently one of the top interests in the field of intensive care. After the completion of the PhD, I worked as a postdoctoral research fellow in Critical Care Research Group, The Prince Charles Hospital, Brisbane, with Professor John Fraser (PhD supervisor) to investigate a novel treatment for Acute Respiratory Failure represented by COVID-19 infection. Currently, I have been working as a researcher (Full time) at The Prince Charles Hospital since Jan 2023. At the same time, I am a founding member of Japan ECMOnet (<https://www.ecmonet.jp/>) that has established in 2020 in response to the COVID-19 pandemic. The ECMOnet was awarded with the Prime Minister Award for our contribution to remain the low mortality of critically ill patients with COVID-19 who were admitted to the intensive care units (ICUs) in Japan. I have been publishing seven papers were published as first author and 40 papers as co-author. Of 47 papers, 40 papers were published after the completion of the PhD.

Education (Academic Qualification)

Date; From 01 April 2006 to 31 March 2012

Title; Doctor of Medicine (MD)

Institute; Jikei University School of Medicine

Department; School of Medicine

Address; Tokyo, Japan

Date; From 02 April 2015 to 5 December 2019
Title; Doctor of Philosophy
Institute; Jichi Medical University
Department; Department of Emergency Medicine
Address; Tochigi, Japan

Clinical Training/Employment in Japan

Date; From 01 April 2012 to 31 March 2014
Position Title; Junior Resident
Institute; Imperial Foundation Saiseikai Utsunomiya Hospital
Address; Tochigi, Japan

Date; From 01 April 2014 to 31 March 2017
Position Title; Senior Resident (Early Career)
Institute; Advanced Medical Emergency Department and Critical Care Center, Japan Red Cross
Maebashi Hospital
Address; Gunma, Japan

Date; From 01 April 2017 to 31 July 2018
Position Title; Attending physicians
Institute; Advanced Medical Emergency Department and Critical Care Center, Japan Red Cross
Maebashi Hospital
Address; Gunma, Japan

Date; From 01 April 2017 to 31 July 2018
Position Title; Director
Institute; Department of Physiotherapy and Early mobilization, Advanced Medical Emergency
Department and Critical Care Center, Japan Red Cross Maebashi Hospital
Address; Gunma, Japan

Date; From 01 April 2017 to 31 July 2018
Position Title; Director
Institute; The ECMO center, Advanced Medical Emergency Department and Critical Care
Center, Japan Red Cross Maebashi Hospital
Address; Gunma, Japan

Date; From 01 August 2018 to 31 March 2019
Position Title; Research fellow
Institute; Anesthesiology and Translational Intensive Care Unit, University of Texas Medical
Branch
Address; Texas, the United States

Date; From 1 April 2019 to 31 July 2020
Position Title; Attending physicians
Institute; Department of Emergency Medicine and Critical Care Medicine, Imperial Foundation
Saiseikai Utsunomiya Hospital
Address; Tochigi, Japan

Date; From 1 January 2021 to 31 December 2022
Position Title; Clinical Research Manager
Institute; Clinical Research Group, TXP Medical Co. Ltd.
Address; Tokyo, Japan

Professional Experience (Ongoing)

Date; From 1 March 2020 (ongoing)
Position Title; A Founding Committee Member
Institute; Non-Profit Organization, Japan ECMOnet
Address; Tokyo, Japan

Date; From 1 September 2020 (ongoing)
Position Title; Postdoctoral research fellow
Institute; Critical Care Research Group, The Prince Charles Hospital
Address; Queensland, Australia

Date; From 1 September 2020 – 16 June 2022
Position Title; Visiting Academic
Institute; Faculty of Medicine, The University of Queensland
Address; Queensland, Australia

Date; From 13 Jan 2021 (ongoing)
Position Title; A Founding Committee Member/ Core Research Manager
Institute; Non-Profit Organization, ICU Collaboration Network (ICON)
Address; Tokyo, Japan

Date; From 17 June 2022 (oning)
Position Title; Visiting Academic
Institute; Institute for Molecular Bioscience, The University of Queensland
Address; Queensland, Australia

Employment in Australia

Organization; The University of Queensland
Address; St Lucia QLD 4072
Period; From 17 June 2023 to Current
Position; Postdoctoral Research Fellow

Employment in Japan

Organization; The Japan Society for the Promotion of Scienece
Address; 55-3-1 Kojimachi, Chiyoda-ku, Tokyo, 102-0083
Period; From 01 April 2022 to Current
Position; Postdoctoral Research Fellow

Organization; Senko Medical Instrument Mfg. Co., Ltd.
Address; 3-23-13, Hongo, Bunkyo-ku, Tokyo, 113-0033
Period; From 01 Sep 2020 to Current
Position; Medical Advisor

Boards and Qualifications/Membership

Title; Medical Doctor in Japan (Physician's License)
Date/Year; Since 4 April 2012
Organization; Ministry of Health, Labour, and Welfare (Japan)

Title; Member (ID: 222134)
Date/Year; Since 04 April 2014
Organization; Society of Critical Care Medicine (US)

Title; Member (ID: 2838)
Date/Year; Since 02 April 2015
Organization; Japanese Society of Respiratory Care Medicine (Japan)

Title; Course Instructor (ID: 9167)
Date/Year; Since 02 April 2015
Organization; Japanese Trauma Care and Research (Japan)

Title; Member (ID: 1910010920)
Date/Year; Since 02 April 2015
Organization; Japanese Society for Burn Injuries (Japan)

Title; Member (ID: G0098)
Date/Year; Since 02 April 2015
Organization; Japanese Association for the Surgery of Trauma (Japan)

Title; Specialist in Emergency Medicine (Certification ID: 6204)
Date/Year; Since 01 Dec 2017
Organization; Japanese Association for Acute Medicine (Japan)

Title; Specialist in Doctor Helicopter (Certification ID: 2610)
Date/Year; Since 01 Dec 2018
Organization; Japanese Society for Aeromedical Services (Japan)

Title; Doctor of Philosophy in Japan
Date/Year; Since 5 Dec 2019
Organization; Jichi Medical University (Japan)

Title; Specialist in Intensive Care Medicine (Certification ID: 230004)
Date/Year; Since 1 April 2023
Organization; Japanese Society of Intensive Care (Japan)

Research/Development Projects

Project title: International Survey to Investigate the implementation of evidence based ICU care during the COVID-19 pandemic. ~ISIIC Study~

Website: <https://form.jsea2005.org/isiic-%E2%85%A1-study/>

Study design: An international multi-center one-day point prevalence study (212 ICUs in 38 countries)

Period; From Jan 2021 to Current (**Completed**)

Position/Role; Principal Investigator

Abstract; To investigate how evidence-based ICU care, such as the ABCDEF bundle, is delivered to patients in ICUs is crucial to improve patient outcomes. The COVID-19 pandemic could potentially prevent the implementation that results in poor outcomes for patients in ICUs. Therefore, we conducted this study of 135 ICUs worldwide with data of 1229 patients from low-, middle, and high-income countries, which investigated and compared the implementation of evidence-based and supportive ICU care for patients with COVID-19 infection and all other ICU patients without COVID-19 infections. This study focused on the ABCDEF bundle elements developed as part of the SCCM ICU Liberation Campaign and the ICU-specific facilitating and preventing factors. Our study is the first to demonstrate that implementation rates for the entire ABCDEF bundle, individual bundle elements and ICU diaries were extremely low during the COVID-19 pandemic not only for patients with COVID-19 infections and but also for all other ICU patients without COVID-19 infection, even when compared to the previous studies reported before the COVID-19 pandemic. We strongly believe these are powerful “wake-up call” and crucial messages for all ICU clinicians to make a change in our daily clinical practice to improve the outcomes of all ICU patients depending on each

ICU specific-factors with consideration of the impact of COVID-19 since many countries are currently facing with second, third, or even fourth waves.

※ *To note, the primary paper from this study was the highest cited article from the 260 published over the course of the year in the Journal "Critical Care Explorations". (PMID: 33786432)*

Project title: Investigating Long term Outcomes of ICU patients with Sepsis or Septic shock ~ILOSS Study~

Website: https://www.jaam.jp/info/2020/info-iloss_study.html

Study design: A multicenter prospective observational study (26 ICUs in Japan)

Period; From Nov 2020 to Current (**Ongoing**)

Position/Role; Principal Investigator

Abstract; Introduction Sepsis is not only the leading cause of death in the intensive care unit (ICU) but also a major risk factor for physical and cognitive impairment and mental disorders, known as postintensive care syndrome (PICS), reduced health-related quality of life (HRQoL) and even mental health disorders in patient families (PICS-family; PICS-F). The ABCDEF bundle is strongly recommended to overcome them, while the association between implementing the bundle and the long-term outcomes is also unknown. Methods and analysis This is a multicentre prospective observational study at 26 ICUs. All consecutive patients between 1 November 2020 and 30 April 2022, who are 18 years old or older and expected to stay in an ICU for more than 48 hours due to sepsis or septic shock, are enrolled. Follow-up to evaluate survival and PICS/ PICS-F will be performed at 3, 6 and 12 months and additionally every 6 months up to 5 years after hospital discharge. Primary outcomes include survival at 12 months, which is the primary outcome, and the incidence of PICS defined as the presence of any physical impairment, cognitive impairment or mental disorders. PICS assessment scores, HRQoL and employment status are evaluated. The association between the implementation rate for the ABCDEF bundle and for each of the individual elements and long-term outcomes will be evaluated. The PICS-F, defined as the presence of mental disorders, and HRQoL of the family is also assessed. Additional analyses with data up to 5 years follow-up are planned.

Project title: CRoss Icu Searchable Information System

Website: <https://crisis.ecmonet.jp/en-general>

Study design: A multicenter prospective observational study (> 80% of ICUs in Japan, around 500 ICUs)

Period; From Mar 2020 to Current (**Completed**)

Position/Role; Co-Principal Investigator

Abstract; We developed a prospective nationwide registry covering > 80% of intensive care units in Japan, and analyzed the association between patients' backgrounds, institutional ECMO experience, and timing of treatment initiation and prognosis between February 2020 and November 2021. This is the first registry to monitor the patients with COVID-19 who admitted to the ICUs in Japan in a real time manner. A total of 9418 patients were ventilated, of whom 1214 (13%) received ECMO. The overall survival rate for ventilated patients was 79%, 65% for those receiving ECMO. There have been five outbreaks in Japan to date. The survival rate of ventilated patients increased from 76% in the first outbreak to 84% in the fifth outbreak ($p < 0.001$). The survival rate of ECMO patients

remained unchanged at 60-68% from the first to fifth outbreaks ($p = 0.084$). Age of ≥ 59 (hazard ratio [HR] 2.17; 95% confidence interval [CI] 1.76-2.68), ventilator days of ≥ 3 before starting ECMO (HR 1.91; 95% CI 1.57-2.32), and institutional ECMO experiences of ≥ 11 (HR 0.70; 95% CI 0.58-0.85) were independent prognostic factors for ECMO. We found that the mortality of COVID-19 patients with mechanical ventilation and with/without ECMO was relatively better than the reported mortality by other countries.

Project title: ReLaTionship BEtween implementation of evidence-based and suppoRtive ICU cAre and ouTcomes of patIents with acute respiratOry distress syndrome – The ICU LIBERATION Study

Website: <https://www.esicm.org/endorsed-trials/ongoing-projects-endorsed/#LIBERATION>
https://www.jaam.jp/info/2023/info-liberation_study.html
<https://form.jsea2005.org/liberation-study-1/>

Study design: An international multicenter prospective observational study (100 ICUs across the world)

Period; From Nov 2020 to Current (**Ongoing**)

Position/Role; Co-Principal Investigator

Abstract; This study aims to investigate the epidemiology and treatments given to the patients and evaluate the implementation of evidence-based ICU care and its association with the outcomes of patients with ARDS admitted to the ICU. The contents of mechanical ventilation settings, respiratory conditions, and evidence-based ICU care, such as analgesia, sedation, rehabilitation, and nutrition, given to the patients will be collected in a daily basis to perform a robust statistical analysis. This is the first study/registry to connect the epidemiology, treatments, evidence-based ICU care, and functional outcomes/disabilities of the patients after survivorships from a critical illness / ICU critically ill diseases. ※ *To note, this study “the ICU LIBERATION study” has been endorsed by the major Society of Intensive Care in the World, such as the European Society of Intensive Care Medicine and the Society of Critical Care Medicine.*

Awards

2019 Excellent Presentation Award, the 46th Annual Congress of the Japanese Society of Intensive Care Medicine

2019 Encouragement Award, the 46th Annual Congress of the Japanese Society of Intensive Care Medicine

2021 Best Scientific Article Award, the 49th Annual Congress of the Japanese Association for Acute Medicine

2021 The Prime Minister Award from Fumio Kishida, the prime minister in Japan

2023 Excellent Journal of Intensive Care Award, the 50th Annual Congress of the Japanese Society of Intensive Care Medicine

2023 Best Presentation Award, the 50th Annual Congress of the Japanese Society of Intensive Care Medicine

Grants

2020-2021 Postdoctoral fellowship for overseas, the Uehara Memorial Foundation, 57,400 AUD, acceptance rate: 20% (Japan)

2020-2022 Academic society-led multicenter research, the Japanese Association for Acute Medicine, 12,500 AUD per year up to 3 years, acceptance rate: 10% (Japan)

2022-2023	The Prince Charles Hospital Foundation Innovation Grant, 50,000 AUD (Australia)
2022-2024	Industry Funding, MERA, Senko Medical Instrument Mfg. Co., Ltd. 60,000 AUD (Japan-Australia)
2022-2024	Research Abroad Grant, Japan Society for the Promotion of Science, 60,000 AUD per year up to 2 years, acceptance rate: 20% (Japan)
2022-2023	New Investigator Grant, The Prince Charles Hospital Foundation, 10,000 AUD per year up to 1 year, acceptance rate: 20% (Australia)
2022-2025	Research Grant, Japan Agency for Medical Research and Development, 1,000,000 AUD as one of chief investigators (Australia)
2023-2025	The Prince Charles Hospital Research Fellowship, 110,000 AUD pre-year up to 3 years, acceptance rate 15% (Australia)
2023-2024	The Prince Charles Hospital Foundation Innovation Grant, 50,000 AUD as a supervisor (Australia)
2023-2025	Industry Funding, MERA, Senko Medical Instrument Mfg. Co., Ltd. 60,000 AUD (Japan-Australia)

Research Activities

Invited Presentations at international conferences

Sep 2016	<i>Rehabilitation Strategies during ECMO.</i> The Second Asia Pacific Annual Conference on Early Mobilization and Rehabilitation in the ICU at Seoul, Korea
Aug 2019	<i>An Early Mobilization Quality Improvement Protocol with Engagement of ICU Physicians.</i> The Fifth Asia Pacific Annual Conference on Early Mobilization and Rehabilitation in the ICU at Kuching, Malaysia
Mar 2020	<i>An assessment of aerosolization via membranous oxygenator and coagulopathy in COVID-19.</i> Extracorporeal Life Support Organisation (ELSO) Webinar via ZOOM.
July 2021	1. <i>Clinical roles in an early rehab program ~The role of ICU Physician~.</i> 2. <i>ABCDEF bundle in COVID-19 pandemic era ~ISIIC Study~.</i> The Sixth Asia Pacific Annual Conference on Early Mobilization and Rehabilitation in the ICU at Seoul, South Korea via ZOOM.
Feb 2023	<i>Building Interdisciplinary Communication to Maintain the Sustainability of the Early Mobilization Program,</i> The Seventh Asia Pacific Annual Conference on Early Mobilization and Rehabilitation in the ICU at Jakarta, Indonesia via ZOOM
Mar 2023	<i>A Japanese Experience: Small volume centres in highly diversified populations,</i> The Critical Care Research International: Knowledge, Evidence, and beyond at Gold Coast, Australia in person.

(There are other 8 invited talks not listed here)

Oral Presentation at the congress out of Japan

May 2015	<i>Packed Red Blood Cells for traumatic cardiopulmonary arrest can improve the rate of return of spontaneous circulation</i> The 16 th European Congress of Trauma and Emergency Surgery, Amsterdam, The Netherlands
Feb 2016	Protocolized Early Mobilization led by intensivists is feasible and safe in Japanese Closed ICU. The 45 th Critical Care Congress at Orland, Florida, USA
Feb 2017	<i>Awake ECMO and active rehabilitation strategies for venovenous ECMO as a bridge to recovery.</i> The 46 th Critical Care Congress at Honolulu, Hawaii, USA
Feb 2018	<i>Early mobilization in the acute phase of sepsis and septic shock improves patient outcomes.</i> The 47 th

Critical Care Congress at San Antonio, Texas, USA

July 2021 *Bridging bilateral research collaborations between Indonesia and Australia by building a world-wide data-sharing and communicating hub: the COVID-19 Critical Care Consortium.* Indonesia Council Open Conference (ICOC 2021) Virtual.

(There are other 15 presentations not listed here)

Poster Presentation at the congress out of Japan

Nov 2017 *Effectiveness of early mobilization initiating in the acute phase of septic shock. A quality improvement program for sepsis.* The 5th European Conference on Weaning and Rehabilitation in Critically Ill Patients

May 2021 *Risk factors associated with bleeding complication during veno-venous extracorporeal membrane oxygenation: A single center retrospective study.* The 9th Euro Extracorporeal Life Support Organisation Virtual Congress 2021.

(There are other 5 poster presentations not listed here)

Research Activities in Japan

Invited talk: 15 times

Oral Presentation at the congress in Japan: 38 times

Poster presentation at the congress out of Japan: 11 times

Scientific Contributions

2020 A core steering committee member, a committee for post intensive care syndrome and patient life and welfare, the Japanese Society of Intensive Care Medicine (Japan)

2020 A core steering committee member, Non-Profit Organization, Japan ECMOnet for COVID-19 (Japan)

2020 A committee member for “Japanese Clinical Practice Guideline for Rehabilitation in Critically Ill Patients 2022”

2021 An assistant, the Asia-Pacific Extracorporeal Life Support Organization (International)

2021 A member of the Registry Working Group, Asia-Pacific Extracorporeal Life Support Organization (International)

2021 A core steering committee member, Non-Profit Organization, Japan ECMOnet (Japan)

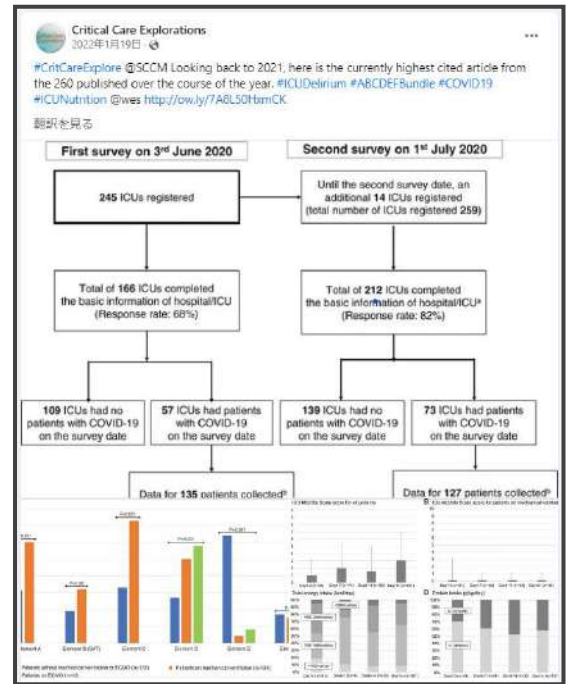
2021 A Researcher, Non-Profit Organization, ICU Collaboration Network (Japan)

Publications

Total citations 361, H index 12 (from google scholar)

I have been involved in over 40 scholarly publications. The following are representative, but please refer List of Academic Publication and International Conference for others. To note, the paper published in "Critical Care Explorations" in 2021 was the highest cited article from the 260 published over the course of the year in the Journal. (PMID: 33786432) as indicated in the right figure. (<https://journals.lww.com/ccejournal/pages/default.aspx>)

In addition, the paper published in "Journal of Intensive Care" in 2022 (PMID: 35468868) was awarded with the title of "Excellent Journal of Intensive Care Award" at the 50th Annual Congress of the Japanese Society of Intensive Care Medicine



Google Scholar search results for "keibun liu". The search shows about 149 results. The top result is "Post-intensive care syndrome and its new challenges in coronavirus disease 2019 (COVID-19) pandemic: a review of recent advances and perspectives" by N. Nakanishi, K. Liu, D. Kawakami, and Y. Kawai, published in the Journal of Clinical Medicine in 2021. The second result is "[HTML] ABCDEF bundle and supportive ICU practices for patients with coronavirus disease 2019 infection: an international point prevalence study" by K. Liu, K. Nakamura, H. Katsukawa, and M. Elhadad, published in Critical Care in 2021.

NIH National Library of Medicine PubMed search results for "keibun liu". The search shows 47 results. The top result is "Cerebrovascular Complications of COVID-19 on Venovenous Extracorporeal Membrane Oxygenation" by Zaaqoq AM, Griffee MJ, Kelly TL, Fanning JP, Heinsar S, Suen JY, Mariani S, Li Bassi G, Jacobs JP, White N, Fraser JF, Lorusso R, Peek GJ, Cho SM, published in Critical Care Medicine in 2023. The second result is "A protocol of an international validation study to assess the clinical accuracy of the eDIS-ICU delirium screening tool" by Tronstad O, Patterson S, Sutt AL, Pearse I, Hay K, Liu K, Sato K, Koga Y, Matsucka A, Hongo T, Rätsep L, Fraser JF, Flaws D, published in Australian Critical Care in 2023.

PubMed search results for "keibun liu". The search shows 47 results. The top result is "Cerebrovascular Complications of COVID-19 on Venovenous Extracorporeal Membrane Oxygenation" by Zaaqoq AM, Griffee MJ, Kelly TL, Fanning JP, Heinsar S, Suen JY, Mariani S, Li Bassi G, Jacobs JP, White N, Fraser JF, Lorusso R, Peek GJ, Cho SM, published in Critical Care Medicine in 2023. The second result is "A protocol of an international validation study to assess the clinical accuracy of the eDIS-ICU delirium screening tool" by Tronstad O, Patterson S, Sutt AL, Pearse I, Hay K, Liu K, Sato K, Koga Y, Matsucka A, Hongo T, Rätsep L, Fraser JF, Flaws D, published in Australian Critical Care in 2023.

1. **Liu K**, Ogura T, Takahashi K, Nakamura M, Ohtake H, Fujiduka K, Abe E, Oosaki H, Miyazaki D, Suzuki H, Nishikimi M, Lefor AK, Mato T. The safety of a novel early mobilization protocol conducted by ICU physicians: a prospective observational study. *J Intensive Care*. 2018;6:10. PMID: 29484188.
2. **Liu K**, Ogura T, Takahashi K, Nakamura M, Ohtake H, Fujiduka K, Abe E, Oosaki H, Miyazaki D, Suzuki H, Nishikimi M, Lefor AK, Mato T. A progressive early mobilization program is significantly associated with clinical and economic improvement: A single-center quality comparison study. *Crit Care Med*. 2019;47:e744-e752. PMID: 31162197.
3. **Liu K**, Nakamura K, Katsukawa H, Elhadi M, Nydahl P, Ely EW, Kudchadkar SR, Takahashi K, Inoue S, Lefor AK, Kesecioglu J, Nishida O. ABCDEF bundle and supportive intensive care unit practices for patients with COVID-19 infection: An international point prevalence study ~The ISIIC Study~. *Crit Care Explor*. 2021;3(3):e0353. PMID: 33786432, highlighted by <https://er-collection.jp/?p=2768>.
※ This paper was the highest cited article from the 260 published over the course of the year 2021 in the Journal “Critical Care Explorations”.
4. **Liu K**, Nakamura K, Katsukawa H, Nydahl P, Ely EW, Kudchadkar SR, Takahashi K, Elhadi M, Gurjar M, Leong BK, Chung CR, Balachandran J, Inoue S, Lefor AK, Nishida O. Implementation of the ABCDEF Bundle for Critically Ill ICU Patients During the COVID-19 Pandemic: A Multi-National 1-Day Point Prevalence Study. *Front Med (Lausanne)*. 2021;8:735860. PMID: 34778298.
5. **Liu K**, Kotani T, Nakamura K, Chihiro T, Morita Y, Ishii K, Fujizuka K, Yasumura D, Taniguchi D, Hamagami T, Shimojo N, Nitta M, Hongo T, Akieda K, Atsuo M, Kaneko T, Sakuda Y, Andoh K, Nagatomi A, Tanaka Y, Irie Y, Kamijo H, Hanazawa M, Kasugai D, Ayaka M, Oike K, Lefor AK, Takahashi K, Katsukawa H, Ogura T. Effects of evidence-based ICU care on long-term outcomes of patients with sepsis or septic shock (ILOSS): protocol for a multicentre prospective observational cohort study in Japan. *BMJ Open*. 2022;12(3):e054478. PMID: 35351710.
6. **Liu K**, Shibata J, Fukuchi K, Takahashi K, Sonoo T, Ogura T, Goto T. Optimal timing of introducing mobilization therapy for ICU patients with sepsis. *J Intensive Care*. 2022;10(1):22. PMID: 35468868
※ This paper was awarded with “Excellent Journal of Intensive Care Award” at the 50th Annual Congress of the Japanese Society of Intensive Care Medicine in 2023.
7. **Liu K**, Nakamura K, Kudchadkar SR, Katsukawa H, Nydahl P, Ely EW, Takahashi K, Inoue S, Nishida O. Mobilization and Rehabilitation Practice in ICUs During the COVID-19 Pandemic. *J Intensive Care Med*. 2022;37(9):1256-1264. PMID: 35473451.
8. Ohshimo S, **Liu K**, Ogura T, Iwashita Y, Kushimoto S, Shime N, Hashimoto S, Fujino Y, Takeda S; Japan ECMO Network. Trends in survival during the pandemic in patients with critical COVID-19 receiving mechanical ventilation with or without ECMO: analysis of the Japanese national registry data. *Crit Care*. 2022;26(1):354. PMID: 36380377.
※ This paper is the first report from Japan on the outcomes of critically ill patients with COVID-19 infection who were admitted to ICUs in Japan that was relatively better outcomes compared to the reports from other countries.

Referees

The University of Queensland

John F Fraser (Australia)

MB ChB, PhD, FRCP (Glas), FFARCSI, FRCA, FCICM, FELSOMBBS (Hons), MD, PhD, FRACP, FCICM
Professor & Pre-Eminent Specialist in Intensive Care Medicine, The Prince Charles Hospital, Brisbane
Director of the Critical Care Research Group, University of Queensland & The Prince Charles Hospital, Brisbane
Director of Intensive Care Unit, St Andrew's War Memorial Hospital, Brisbane
Professor Anaesthesiology and Critical Care, School of Medicine, University of Queensland
Professor of Medicine, Bond University
Professor, School of Medicine, Griffith University
Adjunct Professor, Queensland University of Technology
Adjunct Professor, Monash University
Honorary Research Fellow, Australian Red Cross Lifeblood
Affiliate Membership, Translational Research Institute
Email: fraserjohn001@gmail.com

Ogura Takayuki (Japan)

MD, PhD
Advisor in Medical Services, Abandoned Chemical Weapons Disposal Project, Cabinet Office, Government of Japan
Director, Tochigi Emergency Medical Center
Chief director, Department of Emergency and Intensive Care, Saiseikai Utsunomiya Hospital
Email: alongthelongestway2003@yahoo.co.jp

Satoru Hashimoto (Japan)

MD, PhD
Email: satoru@koto.kpu-m.ac.jp

Shinhiro Takeda (Japan) (日本では自分が所属する日本 ECMOnet の代表理事として内閣総理大臣賞を受賞)

MD, PhD
Email: shinhiro@nms.ac.jp