

# Journal of Critical and Intensive Care

Official Publication of Society of Turkish Intensivists

## ORIGINAL INVESTIGATION

- Predictors of Mortality for Multiple Trauma Patients with Severe Thoracic Trauma During Intensive Care of The Early Posttraumatic Period  
Myroslav STUPNYTSKYI & Oleksii BILETSKYI, Ukraine
- Outcomes of COVID-19 Patients Undergoing Therapeutic Plasma Exchange in Intensive Care Units  
Muruvvet Seda AYDIN et al., Turkey
- The Association of Fragmented QRS with Outcomes in Elderly Medical ICU Patients  
Kamil INCI et al., Turkey
- A Percutaneous Tracheostomy Experience in the ICU During the COVID-19 Pandemic  
Ugur OZDEMIR & Mert SEYHAN, Turkey

## CASE REPORT

- Alveolar Hemorrhage, Intracranial Bleeding, and Infective Endocarditis in A Young Case of Brucellosis  
Hulya Deniz MISIR et al., Turkey
- Purple Urine Bag Syndrome: A Bizarre Spot Diagnosis in ICU  
Snehangsh DASH & Naveen KUMAR, India

## LETTER TO EDITOR

- The Role of Nephrology in Critical Care  
Inês SALA et al., Portugal

EISSN 2717-6428

Journal of Critical and Intensive Care is published three times a year in April, August and December.

## Type of Publication

Periodical

## Funding

Society of Turkish Intensivists.

© Copyright for papers, figures, tables or photographs in the Journal belongs to the Turkish Society of Medical and Surgical Intensive Care Medicine.

Journal of Critical and Intensive Care is indexed in Web of Science-Emerging Sources Citation Index, TUBITAK ULAKBIM TR Index, EMBASE, Scopus, EMCare, CINAHL, Gale/Cengage Learning, EBSCO, HINARI, ProQuest and Turkiye Citation Index.



## Executive Committee of Society of Turkish Intensivists.

**Prof Neriman Defne Altintas**  
President

**Prof Emel Eryuksel**  
Il. President

**Prof Sema Turan**  
General Secretary

**Prof Muge Aydogdu**  
Treasurer

### Members

**Prof Arzu Topeli Iskit**

**Prof Levent Yamanel**

**Prof Cenk Kirakli**

**Prof Ezgi Ozyilmaz**

**Prof Melda Turkoglu**

### Address

Kuleli Sokak 57/1  
06700 Çankaya, Ankara, Turkey  
www.jcritintensivecare.org  
editor@jcritintensivecare.org

## Editorial Board

### Editor-in-Chief

**Prof. Dr. Arzu Topeli**

Hacettepe University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey  
atopeli@hacettepe.edu.tr  
<https://orcid.org/0000-0002-5874-9087>

### Editor

**Prof. Dr. Neriman Defne Altintas**

Ankara University Faculty of Medicine, Ibni Sina Hospital, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey  
defne98hac@yahoo.com  
<https://orcid.org/0000-0002-7885-8942>

### Associate Editor

**Dr. Leyla Ferlicolak**

Ankara University Faculty of Medicine, Ibni Sina Hospital, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey  
leylatalan@gmail.com  
<https://orcid.org/0000-0003-2023-5985>

### Statistical Advisor

**Prof. Dr. Banu Cakir**

Hacettepe University Faculty of Medicine, Department of Public Health, Ankara, Turkey  
banucakir4@gmail.com

### Online Submission and Processing

**Pleksus Bilişim Teknolojileri A.Ş.**

Ankara Tekn. Geliştirme Bölgesi, Üniversiteler Mahallesi, 1606. Cad. No: 4 Cyberpark, Cyberplaza A Blok 2. Kat  
No: A208 Bilkent, Ankara, Turkey  
Tel: +90 312 427 26 08  
Fax: +90 312 427 26 02

### Publishing Services



**BAYT Bilimsel Araştırmalar Basın Yayın ve Tanıtım Ltd. Şti.**

Ziya Gökalp Cad., 30/31, 06420 Kızılay, Ankara, Turkey  
Phone: +90 312 431 30 62 | Fax: +90 312 431 36 02  
E-mail: info@bayt.com.tr | www.bayt.com.tr

## Editorial Board

**Ahsina Jahan Lopa**, Deputy Medical Director Incharge, Ashiyen Medical College Hospital, Dhaka, Bangladesh

**Akin Kaya**, Ankara University Faculty of Medicine, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Ali Kemal Kadiroglu**, Dicle University Faculty of Medicine, Department of Internal Medicine, Division of Nephrology, Diyarbakir, Turkey

**Aydin Ciledag**, Ankara University Faculty of Medicine, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Begum Ergan**, Dokuz Eylul University Faculty of Medicine, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Izmir, Turkey

**Bilgin Comert**, Dokuz Eylul University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Izmir, Turkey

**Burcin Halacli**, Hacettepe University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Cenk Kirakli**, Suat Seren Chest Diseases and Surgery Training and Research Hospital, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Izmir, Turkey

**Dilek Kazanci**, Ankara City Hospital, Ministry of Health General Intensive Care Clinic, Ankara, Turkey

**Despoina Koulenti**, Critical Care Department, Attikon University Hospital, Athens, Greece & BTCCRC UQ Centre for Clinical Research, Faculty of Medicine, University of Queensland, Brisbane, Australia

**Ebru Ortac Ersoy**, Hacettepe University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Emel Eryuksel**, Marmara University Faculty of Medicine, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Istanbul, Turkey

**Erhan Tabakoglu**, Trakya University Faculty of Medicine, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Edirne, Turkey

**Ethem Murat Arsava**, Hacettepe University Faculty of Medicine, Department of Neurology, Ankara, Turkey

**Ezgi Ozyilmaz**, Cukurova University Faculty of Medicine, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Adana, Turkey

**Fatma Yildirim**, University of Health Sciences, Diskapi Yildirim Beyazit Research and Education Hospital, Division of Intensive Care Medicine, Ankara, Turkey

**Gokay Gungor**, Sureyyapasa Chest Diseases and Chest Surgery Training and Research Hospital, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Istanbul, Turkey

**Goksel Guven**, Hacettepe University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Gul Gursel**, Gazi University Faculty of Medicine, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Gulbin Aygencel Bikmaz**, Gazi University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Gurhan Taskin**, Gulhane Research and Training Hospital, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Haldun Gundogdu**, Bozok University, Department of Surgery, Division of Gastrointestinal Surgery, Yozgat, Turkey

**Halima Salisu Kabara**, Aminu Kano Teaching Hospital, Kano, Nigeria

**Hatice Yagmurdu**, University of Health Sciences, Gulhane School of Medicine, Department of Anesthesiology and Intensive Care, Ankara

**Hayriye Cankar Dal**, University of Health Science, Ankara City Hospital, Intensive Care Medicine, Ankara, Turkey

**Ismail Hakki Akbudak**, Pamukkale University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Denizli, Turkey

**Jale Bengi Celik**, Selcuk University Faculty of Medicine, Department of Anesthesiology and Reanimation, Division of Intensive Care Medicine, Konya, Turkey

**Jorge Hidalgo**, Head of the Division of Critical Care, Karl Heusner Memorial Hospital, Belize City, Belize

**Jordi Rello**, Critical Care Department, Hospital Joan XXII of Tarragona and Hospital Vall Hebron, Universitat Autonoma de Barcelona, Barcelona, Spain

**Kamil Gonderen**, Izmir Katip Celebi University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Izmir, Turkey

**Kamil Inci**, Gazi University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Kaniye Aydin**, Cukurova University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Adana, Turkey

**Kaya Yorganci**, Hacettepe University Faculty of Medicine, Department of General Surgery, Ankara, Turkey

**Kazım Rollas**, Tepecik Research and Training Hospital, Intensive Care Medicine, Izmir, Turkey

**Kivanc Kaya**, Hacettepe University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Kursat Gundogan**, Erciyes University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Kayseri, Turkey

**Levent Yamanel**, University of Health Science, Gulhane Research and Training Hospital, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**L R Mathivha**, Head of Clinical Department: Critical Care Medicine, Chris Hani Baragwanath Academic Hospital & Witwatersrand University, Johannesburg, South Africa

**Madiha Hashmi**, Ziauddin University, Department of Anesthesia and Intensive Care, Karachi, Pakistan

**Mehmet Akif Topcuoglu**, Hacettepe University Faculty of Medicine, Department of Neurology, Ankara, Turkey

**Melda Turkoglu**, Gazi University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Muhammet Guven**, Lokman Hekim University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Muge Aydogdu**, Gazi University Faculty of Medicine, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Murat Sungur**, Erciyes University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Kayseri, Turkey

**Nalan Adiguzel**, Sureyyapasa Chest Diseases and Chest Surgery Training and Research Hospital, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Istanbul, Turkey

**Nazlihan Boyaci**, Gazi University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Ozgur Kiliç**, Ondokuz Mayıs University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Samsun, Turkey

**Ozlem Cakin**, Akdeniz University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Antalya, Turkey

**Ozlem Ediboglu**, Suat Seren Chest Diseases and Surgery Training and Research Hospital, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Izmir, Turkey

**Ozlem Mocin**, Sureyyapasa Chest Diseases and Chest Surgery Training and Research Hospital, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Istanbul, Turkey

**Pervin Hanci**, Trakya University Faculty of Medicine, Department of Pulmonology, Division of Intensive Care Medicine, Edirne, Turkey

**Recep Civan Yuksel**, Erciyes University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Kayseri, Turkey

**Sait Karakurt**, Marmara University Faculty of Medicine, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Istanbul, Turkey

**Seda Banu Akinci**, Hacettepe University Faculty of Medicine, Department of Anesthesiology, Division of Critical Care, Ankara, Turkey

**Sema Turan**, Ankara City Hospital, Ministry of Health General Intensive Care Clinic, Ankara, Turkey

**Serdar Efe**, Uludag University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Bursa, Turkey

**Serpil Ocal**, Hacettepe University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Seval Izdes**, Yildirim Beyazit University Faculty of Medicine, Ankara City Hospital, Department of Anesthesiology and Reanimation, Division of Intensive Care Medicine, Ankara, Turkey

**Sharmili Sinha**, Senior Consultant Critical Care Medicine Apollo Hospitals, Bhubaneswar, India

**Sahin Temel**, Erciyes University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Kayseri, Turkey

**Tural Alekberli**, Department of Anesthesia and Pain Management, Mount Sinai Hospital, University of Toronto, Canada

**Turkay Akbas**, Duzce University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Duzce, Turkey

**Ugur Ozdemir**, Ankara University Faculty of Medicine, Department of Internal Medicine, Division of Intensive Care Medicine, Ankara, Turkey

**Volkan Inal**, Trakya University, Department of Internal Medicine, Division of Intensive Care Medicine, Edirne, Turkey

**Zuhal Karakurt**, Sureyyapasa Chest Diseases and Chest Surgery Training and Research Hospital, Department of Pulmonary Medicine, Division of Intensive Care Medicine, Istanbul, Turkey

## Aims and Scope

Journal of Critical and Intensive Care (J Crit Intensive Care) is the scientific and official publication of the Society of Turkish Intensivists (STI) ([www.tuyud.org.tr](http://www.tuyud.org.tr)). The Journal is an international open access journal, published 3 times a year (April, August, December). All processing is conducted through the online submission system on the web site: [www.jcritintensivecare.org](http://www.jcritintensivecare.org). Manuscripts are accepted for publication through an independent unbiased and double-blinded peer review process. Only manuscripts written in English are accepted and only unpublished manuscripts that are not under review for publication elsewhere can be submitted. Journal of Critical and Intensive Care does not accept multiple submissions even though the previous one was published in a different language.

The 'Journal of Critical and Intensive Care Article Evaluation Flow' is included under Publisher Policies tab.

### AIMS AND SCOPE

The Journal's aim is to publish qualified research material on the field of intensive/critical care medicine. As well, it aims to facilitate sharing of experience and knowledge through invited reviews and case reports of rare conditions.

Original clinical, basic and translational research articles, case reports and letters to the editor related to intensive/critical care medicine including pediatric intensive care; neurointensive care; intensive care nursing, physiotherapy, respiratory therapy, nutrition and pharmacology in intensive care, as well as acute and emergency medicine are being published. Editorials and review articles are only accepted upon invitation of the editor. The target group of Journal of Critical and Intensive Care is physicians and healthcare staff at clinical and basic science departments who are interested in intensive care.

### Journal Contact

**Address:** Kuleli Sokak 57/1

06700 Çankaya, Ankara, Turkey

**Web:** [www.jcritintensivecare.org](http://www.jcritintensivecare.org)

**e-mail:** [editor@jcritintensivecare.org](mailto:editor@jcritintensivecare.org)

## Instructions to Authors

Journal of Critical and Intensive Care (J Crit Intensive Care) is the scientific and official publication of the Society of Turkish Intensivists ([www.tuyud.org.tr](http://www.tuyud.org.tr)).

The journal is an open access journal, published 3 times a year and all of its contents are freely available with no cost and there is no fee for submission. It accepts manuscripts written only in English and evaluates submissions through its online submission system on the web site [www.jcritintensivecare.org](http://www.jcritintensivecare.org). It publishes original clinical, basic and translational research articles, case reports and letters to the editor related to intensive/critical care medicine and acute medicine. Editorials and review articles are only accepted upon invitation of the editor.

Manuscripts are accepted for publication through an independent unbiased and double-blinded peer review process. Authors are encouraged to suggest reviewers from other institutions; however editorial board will make the final selection of reviewers. As well, the editorial board reserves the right to reject the manuscripts not suitable for publication or the right to return manuscripts to authors for revision.

An approval of research protocols by institutional review board or ethics committee in accordance with international agreements (Helsinki Declaration of 2008 - available at <https://www.wma.net/wp-content/uploads/2018/07/DoH-Oct2008.pdf>, "Guide for the care and use of laboratory animals" - [www.nap.edu/catalog/5140](http://www.nap.edu/catalog/5140).) is required for all research articles. All manuscripts should be prepared in accordance with the latest International Committee of Medical Journal Editors (ICMJE) Recommendations for the Conduct, Reporting, Editing and Publication of Scholarly Work in Medical Journals (updated in May 2022 - <https://www.icmje.org/recommendations/>).

It is necessary for you to assess compliance with the appropriate EQUATOR checklist for your study. Please find the appropriate checklist at EQUATOR Network.

When reporting the results of a randomized controlled trial, author(s) should use the CONSORT statement as a guide in preparing the manuscript. (<https://www.equator-network.org/>)

When reporting the results of an observational study, author(s) should use the STROBE statement as a guide in preparing the manuscript. (<https://www.equator-network.org/>)

### All submitted manuscripts must comply with the instructions specified below:

1. A cover letter stating that the submitted manuscript is an original work that has not been previously published or is not currently under consideration for publication elsewhere must be submitted with the manuscript. Cover letter should be submitted as a separate file.
2. During the article submission process, the "Copyright Transfer Agreement" should be scanned and uploaded to the online article system after being signed by all authors. No changes (sorting, deleting or adding) to the authorship are allowed after this stage. In addition, the "Authors' Contributions Form" and "ICMJE Disclosure of Interest Form" must be uploaded to the system. If accepted for publication, the authors agree to transfer the copyright of the article to "Journal of Critical and Intensive Care" and that it be published under CC BY-NC license.

3. All content (text, figures, graphics, tables and others) which has been "sent for publication should be original. If not, permission from related person and/or institutions regarding copyright should have been obtained by the authors.
4. If the manuscript was partially or completely presented as a thesis or an abstract at a meeting, it should be clearly stated in the "Acknowledgements" section.
5. Foundations, organizations, drug or medical device companies that make a complete or partial financial contribution, project funding, scholarships, etc. should be mentioned in the "Acknowledgements" section.
6. The authors should disclose any conflict of interest and any financial support that has been received relevant to the submitted manuscript in the "Acknowledgements" section. As well, ICMJE Disclosure of Interest Form should be submitted with the manuscript.
7. The authors are responsible for compliance of the quality of research with high ethical standards. The "Materials and Methods" section should include a statement about ethics committee approval (date, document no) and informed consent. The journal reserves the right to refuse or retract the publication of the manuscript in the presence of an ethical violation.
8. Manuscripts are checked for text similarity with the iThenticate Similarity Check software and manually checked to determine whether any non-original text flagged by the software shows evidence of plagiarism. Manuscripts containing material suspected of plagiarism will be handled by following the relevant COPE flowchart and guidelines from ICMJE.
9. The manuscript will be checked if it is in accordance with instruction to the authors before sending to the editor. Any manuscript not prepared according to instructions will be returned for revision.
10. Professional help for language editing might be required if there are serious language problems.
11. The manuscript will be evaluated by the editorial board for scientific adequacy and then sent to peer-reviewers who could be from the editorial board or independent reviewers.
12. If revision is required, authors should re-submit within a maximum of 1 month. If additional period of time is required, the editor should be informed.
13. All points of the reviewer(s) should be clarified within the re-submitted manuscript highlighted and a detailed letter stating or mentioning all revisions of reviewers on a point-by-point basis is required during revision. This letter is mandatory and if not provided, the manuscript will be returned.
14. For each submission, submission checklist should be completed and uploaded by the corresponding author.
15. Once the manuscript is accepted, the number or order of authors cannot be changed.
16. Authors are not charged for articles accepted for publication in the Journal of Critical and Intensive Care.

## Authorship Criteria

(<https://www.icmje.org/recommendations/browse/roles-and-responsibilities/defining-the-role-of-authors-and-contributors.html>)

Authors of submissions reporting research findings should meet all four of the criteria of the International Committee of Medical Journal Editors (ICMJE):

- Substantial contributions to the conception or design of the work; or the acquisition, analysis, or interpretation of data for the work; AND
- Drafting the work or revising it critically for important intellectual content; AND
- Final approval of the version to be published; AND
- Agreement to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

## PREPARATION OF MANUSCRIPTS

Manuscripts should be written in Microsoft Word for Windows format, and typed using 12 point Times New Roman font with the row spacing of 1.5-2. The use of abbreviations in the title, abstract, table titles, figure legends and at the beginning of the sentences should be avoided. Abbreviations should be defined in parentheses the first time they appear in the text. Single digit numbers should be written in words in the text. The table at the end of the Instructions for Authors should be taken into account while preparing the article.

## All articles should be accompanied by a separate title page including the following:

1. Name of manuscript
2. The full name(s), highest academic degree(s), affiliation(s), ORCID ID numbers
3. Name and address for corresponding author (including phone, e-mail address)

## An original research article should include the following sections:

1. **Abstract:** Under the subheadings of aim, study design, materials and methods, results, conclusion, maximum 250 words.
2. **Keywords** Four to eight keywords must be supplied, see [www.nlm.nih.gov/mesh/MBrowser.html](http://www.nlm.nih.gov/mesh/MBrowser.html).
3. **Main Body:** The main text should include the following sections: Introduction, Materials and Methods, Results, Discussion and Conclusion. The background in the "Introduction" section should not be too long. Aim(s) or hypothesis must be clearly stated in the final paragraph of the "Introduction". The "Materials and Methods" section should include study design and statistical analysis and ethics. Unnecessary overlap between tables, figures and text should be avoided. Subheadings should be used in order to provide a better understanding in the "Results" and "Discussion" sections. There should be limitations section in the discussion. The "Conclusion" section should include the main findings of the study in 1 or 2 sentences.

4. **Tables:** Tables should be included after the references according to their sequence in the text. All tables should be titled. The use of abbreviations in the table title should be avoided if possible. If not, expansions of the abbreviations in the table should be listed as footnotes to the table. Table title must appear at the top of the table. Expressions of the results (i.e. mean±standard deviation or median and interquartile ranges) as well as units of measurements should be stated in tables. Each table should be typed on a separate page and should be numbered with Arabic numerals. P values should be provided.

5. **Figures:** Figures should be numbered with Arabic numerals according to their sequence in the text. Each figure should be submitted as separate files using JPG or TIFF format. For each figure, the file name should include the figure number. Expansion of each abbreviation should be listed in figure legend. P values should be indicated in figure legends. If applicable, statistical significance should be indicated by an asterisk on the figure. If the figure is a radiological or a histopathological photograph, an asterisk or an arrow could be used for demonstration.

6. **Figure Legends:** Figure legends should be self-explanatory and should be listed at the end of the text, after tables. Figure legends should be listed consecutively on a separate page. The use of abbreviations should be avoided if possible or expansion of each abbreviation should be listed.

7. **References:** Unpublished data and studies should not be included in the reference list. They must be cited in the text as "name(s), unpublished data" References should be listed according to their sequence in the text. Each reference should be cited in the text by Arabic numerals between brackets ( ). References should be cited in the text right after the referred author. All journal titles should be abbreviated according to the Index Medicus (<http://www.nlm.nih.gov/archive/20130415/tsd/serials/lji.html>). Names of all authors (name and initial) should be listed when there is three or less. When there are four or more authors, the first three should be listed, followed by "et al.". Full title of cited article, title of journal (abbreviated), year of publication, volume of the journal and page numbers should be included after author's names and initials. If a chapter in a book is cited, name(s) of chapter author(s), title of chapter, name(s) of editor(s), title of book, publisher name, edition of book, year of publication and page numbers should be included.

Examples for;

### Journal article:

O'Malley MK, Rhame FS, Cerra FB, et al. Value of routine pressure monitoring system changes after 72 hours of continuous use. Crit Care Med 1994; 22: 1424-30.

### Chapter in a book:

Celinski S, Seneff MG. Arterial line placement and care. Irwin RS, Rippe JM. Irwin and Rippe's Intensive Care Medicine. Lippincott, Williams and Wilkins. 6th ed. 2008: 38-48.

8. **Acknowledgements:** Individuals who participated in preparation of the manuscript but do not qualify as an author should be acknowledged. The authors should disclose any conflict of interest and any financial or other support that has been received relevant to the submitted manuscript. If the manuscript was partially or completely presented as a thesis or an abstract at a meeting, it should be clearly stated in the "Acknowledgements" section, as well.

### A review article should include the following sections:

Review articles in Journal of Critical and Intensive Care are published as invited articles.

1. Title
2. The full name(s), highest academic degree(s), affiliation(s) of author(s)
3. Name and address for corresponding author (including phone, e-mail address)
4. Abstract with no subheadings
5. Keywords (see original research article)
6. Main Body: Appropriate subheadings should be used. The "Conclusion" section should include the main inference of the manuscript in 1 or 2 sentences.
7. Tables, figures and figure legends (see original research article)
8. References (see original research article)
9. Acknowledgements (see original research article)

### A case report should include the following sections:

Identity of patients should not be included in the manuscript, figures, tables etc. Authors must obtain written informed permission from the patient, or next of kin for case reports. Copies of the permission must be provided when asked for.

1. Title
2. The full name(s), highest academic degree(s), affiliation(s) of author(s)
3. Name and address for corresponding author (including phone, e-mail address)
4. Abstract with no subheadings
5. Keywords (see original research article)
6. Main Body: Introduction, Case(s), Discussion and Conclusion should be included. In case series, cases should be numbered (i.e. Case 1)
7. Tables, figures and figure legends (see original research article)
8. References (see original research article)
9. Acknowledgements (see original research article)

### Editorial

It is the brief evaluation of published manuscripts by an authority assigned by Editor-in-Chief. It can include subheadings; however, an abstract is not required. Tables and figures are not included in editorial.

### Letters to the editor

Letters submitted within 2 months after the publication of an original article in PDF format on the web page, will be accepted, if deemed appropriate, and will be published soon after or in the subsequent volume of the published original article together with author's response.

A letter could also be an independent manuscript not necessarily about an original article as a short report of research findings.

### Letters to the editor and author' response should include the following sections:

1. Title (English)
2. The full name(s), highest academic degree(s), affiliation(s) of author(s)
3. Name and address for corresponding author (including phone, e-mail address)
4. Main Body: It should begin with the statement of "To the Editor". Maximum one table or one figure can be included (see original research article).
5. References (see original research article)
6. Acknowledgements (see original research article)

**Table:** Limitations for each manuscript type

Type of manuscript	Word limit	Abstract word limit	Reference limit	Table and figure limit
Original Article	4000	250 (Structured)	35	6
Review Article	5000	250	70	6
Case Series and Report	1500	150	15	2
Editorial	500	-	10	-
Letter to the Editor	500	No abstract	5	1

### Copyright transfer

Authors are responsible for opinions and suggestions as well as the accuracy of references in the manuscript. No copyright fee is paid for the manuscripts submitted to the journal. The authors should submit duly signed "Copyright Transfer Agreement" during online manuscript submission. If accepted for publication, the authors agree to transfer the copyright of the article to "Journal of Critical and Intensive Care" and that it be published under CC BY-NC 4.0 license.

For detailed information about the license; <https://creativecommons.org/licenses/by-nc/4.0/>

### Address for Correspondence

Editor-in-Chief: Prof. Dr. Arzu Topeli  
 Hacettepe University Faculty of Medicine,  
 Department of Internal Medicine, Division of Intensive Care  
 Medicine, Ankara, Turkey  
 Phone: +90 312 305 36 27,+ 90 312 305 30 29  
[atopeli@hacettepe.edu.tr](mailto:atopeli@hacettepe.edu.tr)

## ORIGINAL INVESTIGATION

**33 Predictors of Mortality for Multiple Trauma Patients with Severe Thoracic Trauma During Intensive Care of The Early Posttraumatic Period**

Myroslav STUPNYTSKYI, Oleksii BILETSKYI

**41 Outcomes of COVID-19 Patients Undergoing Therapeutic Plasma Exchange in Intensive Care Units**

Muruvvet Seda AYDIN, Mehmet Sezgin PEPELER, Ahmet Gokhan AKDAG, Serife GOKBULUT BEKTAS, Deniz ERDEM, Derya GOKCINAR, Funda CERAN, Isil OZKOCAK TURAN, Seval IZDES, Simten DAGDAS, Imdat DILEK, Gulsum OZET

**47 The Association of Fragmented QRS with Outcomes in Elderly Medical ICU Patients**

Kamil INCI, Timor OMAR, Mustafa DILEK, Soner KINA, Zeynep BINICI CELIK, Doğan ILIS

**52 A Percutaneous Tracheostomy Experience in The ICU During The COVID-19 Pandemic**

Ugur OZDEMIR, Mert SEYHAN

## CASE REPORT

**58 Alveolar Hemorrhage, Intracranial Bleeding, and Infective Endocarditis in A Young Case of Brucellosis**

Hulya Deniz MISIR, Nalan DEMIR, Bahadır BENLİ

**61 Purple Urine Bag Syndrome: A Bizarre Spot Diagnosis in ICU**

Snehangsh DASH, Naveen KUMAR

## LETTER TO EDITOR

**64 The Role of Nephrology in Critical Care**

Inês SALA, Ana Carlota VIDA, João PIMENTA FERNANDES, Ana CASTRO, Cristina FREITAS