



Authorship Contribution Form

(Must be Completed and Signed by ALL Authors)

MDPI follows the International Committee of Medical Journal Editors ([ICMJE](#)) guidelines which state that, in order to qualify for authorship of a manuscript, the following criteria should be observed:

- 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.

MDPI journals require that all authors indicate their specific contributions to the preparation of this manuscript by completing this form.

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Authors:	
Corresponding Author(s):	

All authors of the paper should:

confirm that all listed authors meet the criteria above and all who meet the four criteria are identified as authors

confirm that the manuscript has been read and approved by all named authors

confirm that the order of authors listed in the manuscript has been approved by all named authors

Please list all the manuscript authors and their contribution in the Contribution Table below. The corresponding author will be responsible to include a summary statement in the text of the manuscript in a separate section "Author Contributions", that reflects what is recorded in the following table.

List ALL AUTHORS in the same order as the manuscript. (If additional author and signature fields are needed, please duplicate this form as needed):

Name	Contribution (please refer to CrediT in Appendix)	Signature	Date
Maria Fusaro	Conceptualization, Validation, Formal Analysis, Writing - original draft, Project Administration		
Andrea Aghi	Methodology, Data Curation		
Carmela Marino	Resources		
Francesca Mallamaci	Writing - review & editing		
Mario Plebani	Resources		
Martina Zaninotto	Resources		
Maria Grano	Resources		
Silvia Colucci	Resources		
Maurizio Gallieni	Methodology, Writing - review & editing		
Thomas Nickolas	Validation		
Sandro Giannini	Validation		
Stefania Sella	Validation		
Paolo Simioni	Validation		
Alberto Bazzocchi	Investigation		
Giuseppe Guglielmi	Investigation		

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Andrea Aghi	Methodology, Data Curation	<i>Andrea Aghi</i>	18/7/24
Carmela Marino	Resources		
Francesca Mallamaci	Writing - review & editing		
Mario Plebani	Resources		
Martina Zaninotto	Resources		
Maria Grano	Resources		
Silvia Colucci	Resources		
Maurizio Gallieni	Methodology, Writing - review & editing		
Thomas Nickolas	Validation		
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Andrea Aghi	Methodology, Data Curation		
Carmela Marinelli	Resources		
Francesca Mallan	Writing - review & editing		
Mario Plebani	Resources		
Francesca Zaninotto	Resources	<i>M. Zaninotto</i>	07-08-2024
Maria Grano	Resources	<i>M. Grano</i>	08/07/2024
Silvia Colucci	Resources	<i>S. Colucci</i>	08/07/2024
Maurizio Gallier	Methodology, Writing - review & editing	<i>M. Gallier</i>	9/7/2024
Thomas Nickola	Validation	<i>T. Nickola</i>	9/9/24
Andrea Giannini	Validation		
Stefania Sella	Validation		
Paolo Simioni	Validation	<i>P. Simioni</i>	9/07/24
Alberto Bazzocco	Investigation		
Giuseppe Guglie	Investigation	<i>G. Guglie</i>	09/07/2024

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Mario Plebani	Resources		
Martina Zanin	Resources		
Maria Grano	Resources		
Silvia Colucci	Resources		
Maurizio Galli	Methodology, Writing - review & editing		
Thomas Nicko	Validation		
Sandro Giamp	Validation		July 8, 2024
Stefania Sella	Validation		
Paolo Simioni	Validation		
Alberto Bazzo	Investigation		
Giuseppe Gug	Investigation		

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Thomas Nick	Validation		
Sandro Giann	Validation		
Stefania Sella	Validation	Stefania Sella	08/07/2024
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Appendix

Contributor Roles Taxonomy (CRediT)

Conceptualization	Ideas; formulation or evolution of overarching research goals and aims.
Data curation	Management activities to annotate (produce metadata), scrub data and maintain research data (including software code, where it is necessary for interpreting the data itself) for initial use and later re-use.
Formal analysis	Application of statistical, mathematical, computational, or other formal techniques to analyze or synthesize study data.
Funding acquisition	Acquisition of the financial support for the project leading to this publication.
Investigation	Conducting a research and investigation process, specifically performing the experiments, or data/evidence collection.
Methodology	Development or design of methodology; creation of models.
Project administration	Management and coordination responsibility for the research activity planning and execution.
Resources	Provision of study materials, reagents, materials, patients, laboratory samples, animals, instrumentation, computing resources, or other analysis tools.
Software	Programming, software development; designing computer programs; implementation of the computer code and supporting algorithms; testing of existing code components.
Supervision	Oversight and leadership responsibility for the research activity planning and execution, including mentorship external to the core team.
Validation	Verification, whether as a part of the activity or separate, of the overall replication/reproducibility of results/experiments and other research outputs.
Visualization	Preparation, creation and/or presentation of the published work, specifically visualization/data presentation.
Writing - original draft	Preparation, creation and/or presentation of the published work, specifically writing the initial draft (including substantive translation).
Writing - review & editing	Preparation, creation and/or presentation of the published work by those from the original research group, specifically critical review, commentary or revision – including pre- or post-publication stages.