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Authorship

CRediT

Contributor Role Taxonomy for Publications

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ICJME Guidelines for **Authorship Credit**

1. Substantial contributions
 - a. Conception of the work
 - b. Design of the work
 - c. Funding acquisition
 - d. Data
 - i. Collection
 - ii. Analysis
 - iii. Interpretation
2. Paper writing
 - a. Drafting
 - b. Critical Revisions
3. Approval of final version
4. Agreement to be accountable
 - a. questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

Source: [Defining the Role of Authors and Contributors | ICJME](#)



You Should Watch This too





Local Policies in **Pakistan**

No. 1-3/AD-QA/HEC/NQAC-20/2015/391

Date: July 08, 2015

Subject: Credit to the Publication in Appointment and other matters in the light of the Author's Contribution.

Dear Sir,

The National Quality Assurance Committee (NQAC) in its 20th meeting held on May 15, 2015 decided that the editors of journals should ensure that the papers published in journals having more than one author should mention the contribution of each author. The credit given by the university to the publication in appointment and other matters will be in the light of the author's contribution.

Source: [HEC guidelines about author credit](#)

Local Practices

AUTHORS CONTRIBUTIONS

Sr.#	Author's Full Name	Intellectual Contribution to Paper in Terms of:
1.		1. Study design and methodology.
2.		2. Paper writing, referencing, and data calculations.
3.		3. Data collection and calculations.
4.		4. Analysis of data and interpretation of results.



Contributor Role Taxonomy

- CRediT Taxonomy
- 14 Roles
 - represent the roles typically played by contributors to scientific scholarly output.
 - Specific Contributions
- These roles cover the ICJME guidelines for authorship



Contributor Role Taxonomy

- 1) Conceptualization
- 2) Data curation
- 3) Formal Analysis
- 4) Funding acquisition
- 5) Investigation
- 6) Methodology
- 7) Project administration
- 8) Resources
- 9) Software
- 10) Supervision
- 11) Validation
- 12) Visualization
- 13) Writing – original draft
- 14) Writing – review & editing

Source: [CRediT Website](#)

1. Conceptualization

- Substantial Contribution in ICJME Guidelines
- It represents
 - Ideas
 - formulation
 - evolution of overarching research goals and aims.



Source: [CRediT Website](#)

2. Data Curation

- Substantial Contribution in ICJME Guidelines
- Organization and integration of data collected from various sources.
- It involves
 - Annotation
 - Publication
 - Presentation of the data
- The value of the data is maintained over time, and the data remains available for reuse and preservation



3. Formal Analysis

- Substantial Contribution in ICJME Guidelines
- Analysis of data by
 - Statistical
 - Mathematical
 - Computational methods



Source: [CRediT Website](#)

4. Funding Acquisition

- Substantial Contribution in ICJME Guidelines
- Acquisition of the financial support for the project leading to this publication.
 - Funds for research
 - Funds for publication



Source: [CRediT Website](#)

5. Investigation

- Substantial Contribution in ICJME Guidelines
- Conducting a research and investigation process, specifically performing the experiments, or data/evidence collection.



Source: [CRediT Website](#)

6. Methodology

- Substantial Contribution in ICJME Guidelines
- Development or design of methodology; creation of models





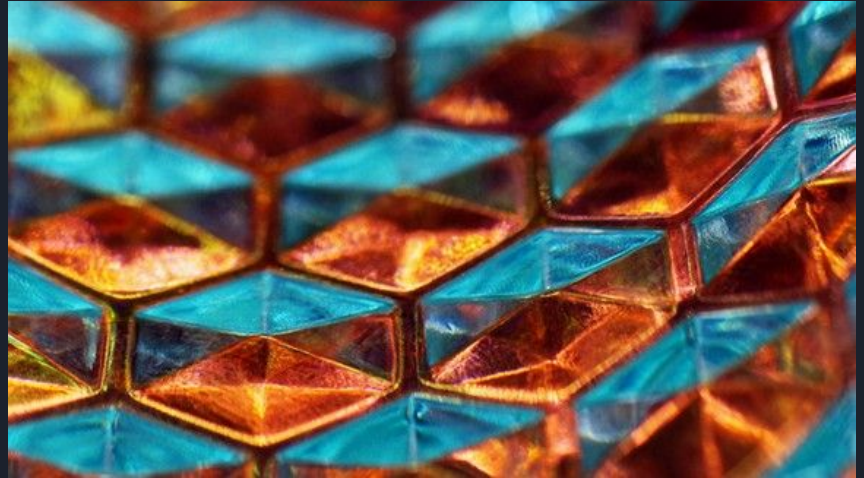
7. Project Administration

- Management and coordination responsibility for the research activity planning and execution.

Source: [CRediT Website](#)

8. Resources

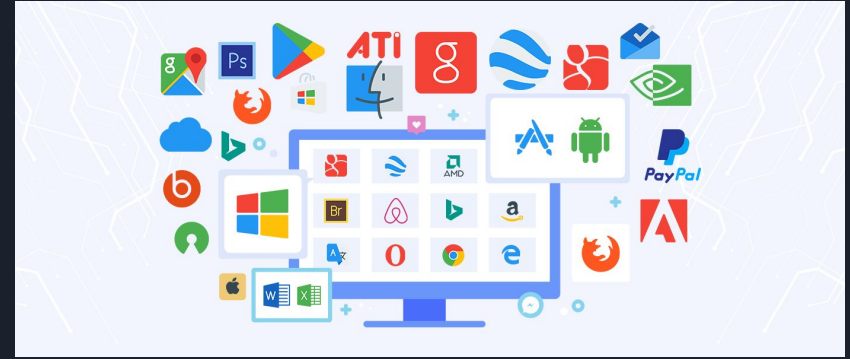
- Provision of study materials
 - Reagents,
 - Materials
 - Patients
 - Laboratory samples
 - Animals
 - Instrumentation
 - Computing resources
 - Other analysis tools.



Source: [CRediT Website](#)

9. Software

- Programming
- Software development
- Designing computer programs
- Implementation of the computer code and supporting algorithms
- Testing of existing code components.





10. Supervision

- Oversight and leadership
- Responsibility for the research activity planning and execution,
- Mentorship external to the core team.

Source: [CRediT Website](#)



11. Validation

- Verification
- Replication/reproducibility of results/experiments.

Source: [CRediT Website](#)



12. Visualization

- Preparation, creation and/or presentation of the published work, specifically visualization/data presentation.

Source: [CRediT Website](#)



13. Writing (Original Draft)

- Preparation, creation and/or presentation of the published work, specifically writing the initial draft (including substantive translation).

Source: [CRediT Website](#)



14. Writing (Review and 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.

Source: [CRediT Website](#)



Example of CRediT Taxonomy

AUTHOR CRediT

HTB: Conceptualization, Methodology, Writing (review & editing)

IA: Investigation, Writing (original draft), Formal analysis

IR: Project administration

FA & AF: Investigation, Formal analysis

Source: [Pakistan Journal of Surgery and Medicine](#)



Thank You

For Questions / Queries

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Video: <https://youtu.be/6M1bzwmEHlg>