International Association of Medical Science Educators

Medical Science Educator

Tips and Tricks for Successfully Publishing Scholarly Work in an International Journal on Medical Education

Workshop

Peter GM de Jong, Editor-in-Chief
Julie K Hewett, Journal Production

Mazatlán, Mexico
June 14, 2018

Springer

3 hr workshop

Tips and Tricks for Successfully Publishing Scholarly Work in an International Journal on Medical Education

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Your facilitators

Peter G.M. de Jong (Netherlands)
Master degree in Medical Technology
PhD in Biophysics/Physiology
E-Learning staff adviser
IAMSE Vice President (2008-2010)
Editor-in-Chief of *Medical Science Educator (2010-)*

Julie K. Hewett (USA)
Bachelors Degree in Entrepreneurial Management
Owner of JulNet Solutions
Management Support & Meeting Planning
IAMSE Association Manager (1998-)
Production of *Medical Science Educator*

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About IAMSE

IAMSE is an international organization with a focus on advancing medical science education through faculty development.

- Annual meeting
- Webinar series
- Publications (journal, manuals)

Train you to become a better educator

Goals of the workshop

Provide a better understanding of scientific publishing and manuscript submission

- Identify barriers for successful publishing
- Differences between journals
- Provide insight in the editorial processes of a journal
- Provide strategies to increase the chances of acceptance of submitted work

Background of participants

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Background of participants

Published in biomedical journals?

Published in medical education journal?

Experience with international publishing?

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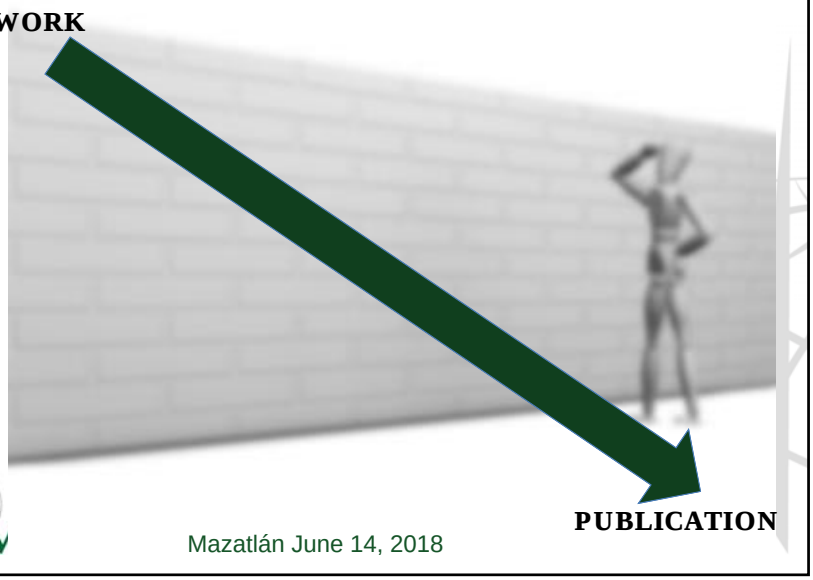
Steps in Publishing your Work



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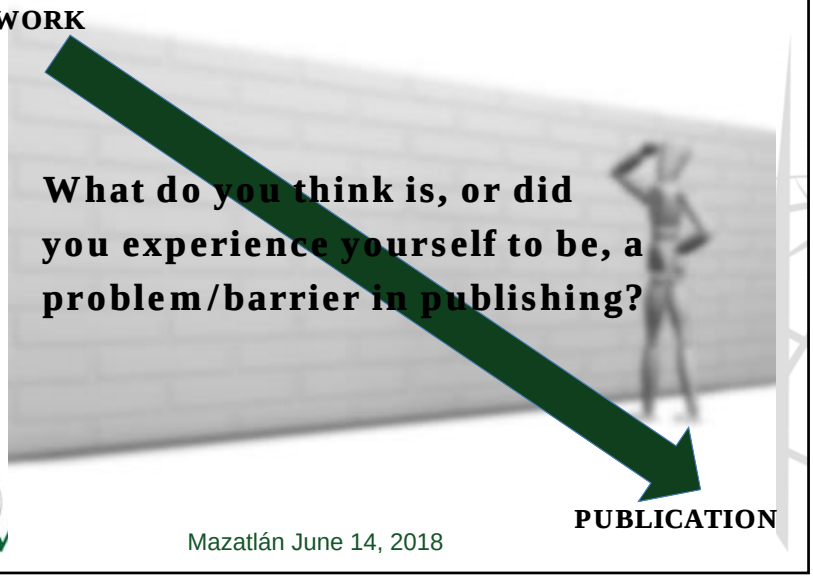
Steps in Publishing your Work



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WHY to publish?

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Why to publish?

Academic publishing:

Add to the existing body of knowledge in health professions education through ***educational innovation and research*** *by building upon the work of others*

- Share your innovative experiences
- Validate methods of others
- Present new findings or insights
- Comment on previously published work

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WHAT to publish?

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What you want to publish?

What is the nature of your work?

- Evaluation of teaching method
- A new method
- Expanding an educational theory
- Proof of usefulness, best practice
- A new idea

Different from 'science' publications:
more qualitative than quantitative

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What you want to publish?

Trend in publications:

- Does it work? (describe)
- Does it work better? (compare)
- **What works better in which context?**
- **Why does it work? (explain)**

Most important question:

So what???

Steps in Publishing your Work

WORK

Communication Format

PUBLICATION

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Communication format

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Communication format

Venues to present your work

- Local meetings at your own institution
- Conferences (poster, oral)
- Journal (article)
- Digital repository (assets)

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Poster abstract for a meeting

Poster or oral presentation

- Short abstract of presentation
- Abstract only used for selection
- Publication in program book

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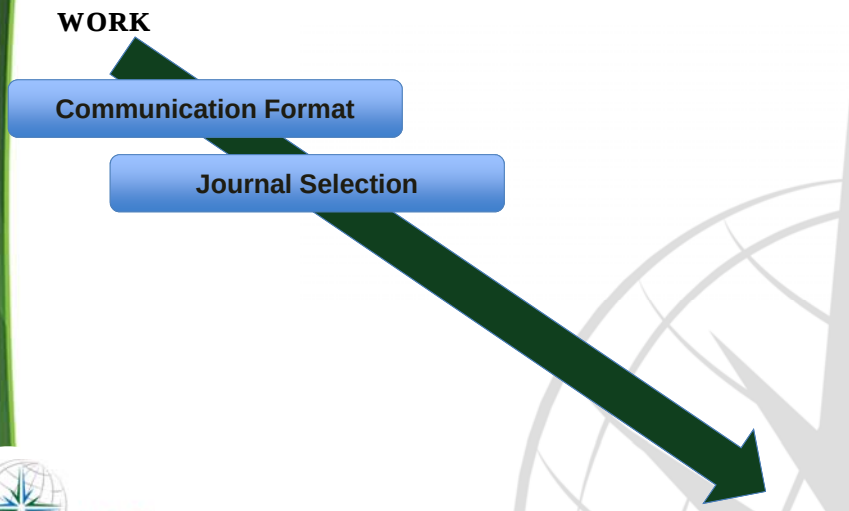

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How to select a journal?

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Scientific Journals

- Biomedical Research Journals
  - Journal of Biomedical Science, Genomics, Journal of Infectious Diseases, ...
- Medical Journals
  - JAMA, New England Journal of Medicine, ...
- **Medical Education Journals**
  - **Medical Science Educator, Medical Education, Medical Teacher, Academic Medicine, ...**
- General Science Journals
  - Science, ...

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Overview of Medical Education Journals

Basic Science Education: *(n=5)*
Advances in Physiology Education
Anatomical Sciences Education
Biochemistry and Molecular Biology Education
Cell Biology Education-Life Sc. Ed.
J. Microbiology & Biology Education

Chiropractic Education: *(n=1)*
J. of Chiropractic Education

Clinical Education: *(n=13)*
Academic Emergency Medicine
Academic Pediatrics
Academic Psychiatry
Acad. Radiology
Am. J. of Medicine
Am. J Obst & Gyne
Am. J. Surgery
Croatian Medical J
JAMA – Education issue
J. of Gen. Internal Medicine – Educ. Section
J. Family Medicine
Neurology
Obstr & Gyne

Dental Education: *(n=2)*
European Journal of Dental Education
J. of Dental Education

Medical Education: *(n=36)*
Academic Medicine
Advances in Health Sciences Education
BMC Medical Education
Can. Med. Educ. J.
Education for Health
Education for Primary Care
Investigación en Educación Médica
Educacion Medica (Spain)
Evaluation in the Health Profession
Focus on HPE
German J. of Medical Education
Gerontology & Geriatrics Education
International J. of Clinical Skills
International J. of Medical Education
Internet J. Allied H. Sc.& Pract.
Internet J. of Medical Education
J. Continuing Education in the HPs
J. of European CME
J. of Graduate Medical Education
J. Medical Education
J. Nippon Medical School
J Surgical Educ
MedEdPortal
Medical Education
Med Ed Development
Medical Education On-Line
Medical Science Educator
Medical Teacher
Open Med Educ J.
Pédagogie Médicale
Perspectives on Medical Education
Revista Brasileira de Educação Médica

Simulation in Health Care
South East Asian J. Medical Education
Teaching & Learning in Medicine
The Clinical Teacher

Interprofessional Care *(n=2)*
J. of Interprofessional Care
J. of Research in Interprofess. Practice in Educ

Nursing Education: *(n=6)*
Internat. J. of Nursing Education Scholarship
J. of Continuing Education in Nursing
J. of Nursing Education
Nurse Education Today
Nursing Education Perspectives
Clinical Simulation in Nursing

Osteopathic Medicine: (n=1)
J Am Osteopathic Assoc.

Pharmacy Education: *(n=2)*
Am. J. Pharmaceutical Education
Pharmacy Education

Physical Therapy Education: *(n=1)*
American J. of Physical Therapy Education

Physician Assistant Education: *(n=1)*
J. of Physician Assistant Education

Veterinary Education: *(n=1)*
J. of Veterinary Medical Education

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Overview of Medical Education Journals

Models

- Traditional Publishing model
  - Free submission
  - Journal subscription (reader pays)
- Open Access Publishing
  - Journal free available
  - Submission fees (author pays)
- Mixed model

Note: Library subscriptions/packages

Overview of Medical Education Journals

Citation indexing services for journals

Pubmed (NLM)	biomedical
Pubmed Central (NLM)	biomedical
MEDLINE (NLM)	biomedical
Web of Science	cross-disciplinary
EBSCO	cross-disciplinary
OCLC .	cross-disciplinary
Google Scholar.	cross-disciplinary
ISI	cross-disciplinary
ProQuest.	cross-disciplinary
BioMed Central	biology and medicine, open access
BIOSIS	life sciences and biomedical research
ERA.	cross-disciplinary
SCOPUS (Elsevier)	cross-disciplinary
EMBASE (Elsevier)	cross-disciplinary
SSCI	social sciences including education
ERIC	education/cross-disciplinary
.....	

Overview of Medical Education Journals

PubMed

A service of the U.S. National Library of Medicine that includes over 18 million citations from MEDLINE and other **life science** journals for **biomedical articles** back to 1948. PubMed includes links to full text articles and other related resources.

MEDLINE

The U.S. National Library of Medicine's premier bibliographic database that contains more than 24 million references to journal articles in **life sciences** with a concentration on **biomedicine.**

PubMed Central (PMC)

Free digital repository that archives publicly accessible full-text scholarly articles that have been published within the **biomedical** and **life sciences** journal literature.

- A growing number of MEDLINE citations contain a link to the free full text of the article archived in **PubMed Central** or to other sites.
- Technically educational literature doesn't belong in PubMed
- Not all journals are indexed by PubMed!!

Overview of Medical Education Journals

Journal impact metrics

Impact factor, the average citation count for a journal

In any given year, the impact factor of a journal is the number of citations of articles published in that journal during the two preceding years, divided by the total number of articles published in that journal during the two preceding years

Other factors:

Eigenfactor

SCImago Journal Rank

H-index

….

Overview of Medical Education Journals

Altmetrics

Non-traditional metrics proposed as an alternative to more traditional citation impact metrics, such as impact factor and h-index, using social media like Twitter, Facebook, and Google+

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Overview of Medical Education Journals

Academic Medicine
AAMC
General

Medical Teacher
AMEE
General
Reject rate 92%

Medical Education
ASME
General
Reject rate 90%

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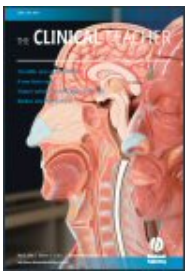
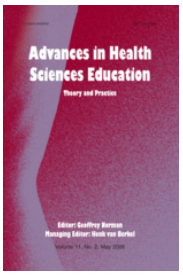
Overview of Medical Education Journals



Clinical Teacher

ASME

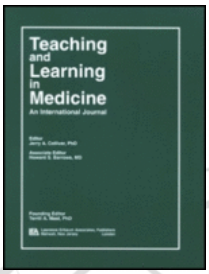
Clinical teachers



Advances in Health Science Education

Researchers

Reject rate > 60%



Teaching and Learning

Scholarship

Overview of Medical Education Journals

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Scholarship

Reject rate 35%

Anatomical Science Education

AAA

Scholarship teaching Anatomical Sciences

Scientific Journals

- Which journal to choose?
  - Peer reviewed
  - Language
  - Appropriate field, in doubt ask the Editor!
  - Readership (researchers, educators, students, general public)
  - Outreach (subscription/open access)
  - Prestige of journal (indexed, impact factor)
  - Rejection rate
  - Connections, published before

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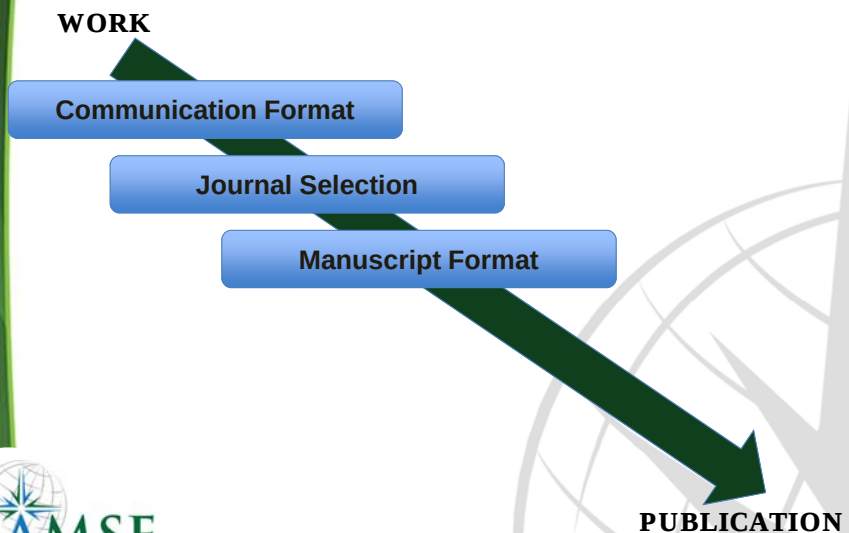
Steps in Publishing your Work



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Which manuscript format?

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Manuscript Formats

Formats depend on the journal!!

- *Original Research*
  Educational Research. 3000-5000 words
- *Short Communications*
  Brief observations. 1500 words
- *Innovation*
  Novel ideas. 500 words
- *Monograph*
  Subject of general interest to educators. 3000-5000 words
- *Commentary*
  Editorials, essays, viewpoints, trends. 3000 words

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Article types: Research

How to Identify At-Risk Medical Students Based on Learning Style, Personality Indicator and Learning Strategy Tests—a Mixed Method for a Pilot Study

Amina Sadik · Leticia Rojas

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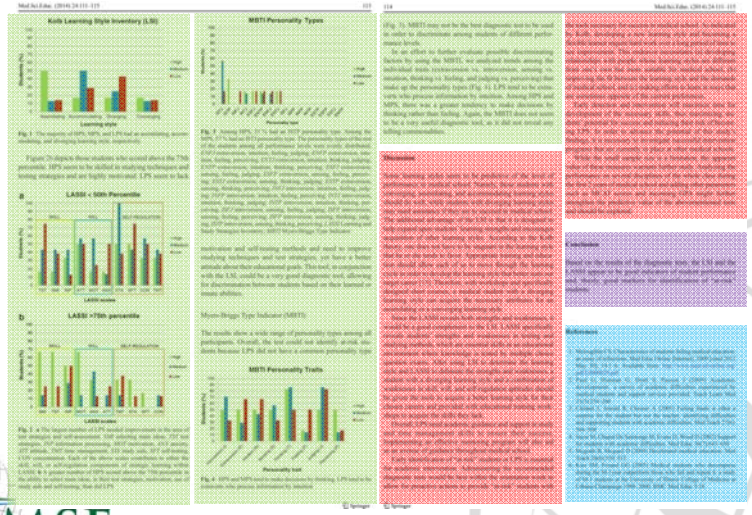
Article types: Research



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Article types: Research

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Article types: Monograph

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Article types: Monograph

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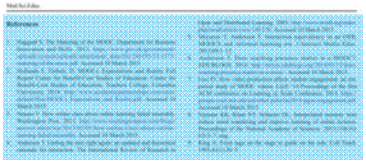
Article types: Monograph



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Article types: Innovation

Teaching Third and Fourth Year Medical Students How to Cook: An Innovative Approach to Training Students in Lifestyle Modification for Chronic Disease Management

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Steps in Publishing your Work

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Communication Format

Journal Selection

Manuscript Format

Manuscript Writing

PUBLICATION

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How to write the manuscript?

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Manuscript Writing

General issues:

- Clear topic/1 topic of the submission
- Co-authors
- Team/multi-institutional work stronger than individual
- Embedded in recent literature

Writing skills:

- Spelling and grammar/non-native English writers

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Manuscript Writing

Follow the instructions for authors!!

Cover letter, word count, article types, manuscript structure, file types, reference style, IRB, tables and figures, etc etc…

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Steps in Publishing your Work

WORK

- Communication Format
- Journal Selection
- Manuscript Format
- Manuscript Writing
- Submission Process

PUBLICATION

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How to submit?

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Submission Process

Which people and steps are involved in publishing a manuscript?

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Submission Process

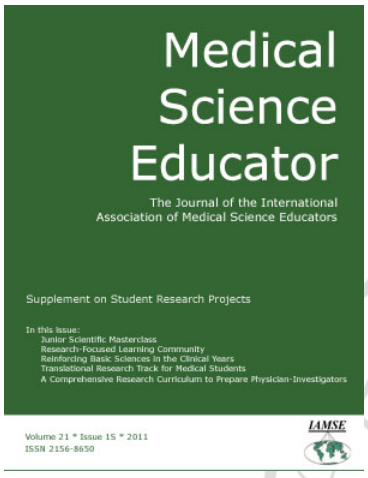
Reviewers:

- Suggest to author improvements for the manuscript
- Indicate to Editor relevance and importance

Editors:

- Decide for acceptance or rejection
  - Based on content and review results
  - Based on other factors

Showcase: *Medical Science Educator*



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Showcase: *Medical Science Educator*

Organization:

- Editor-in-Chief
- Associate Editors (13)
- Reviewers (>200)
- IAMSE management support

- International Advisory Board (3)

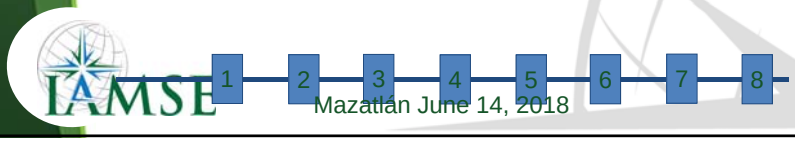
Showcase: *Medical Science Educator*

8 step review process:

- Author submits a manuscript online + letter
- Initial review by Editor-in-Chief
- Assignment to Associate Editor and 3 reviewers; 3 weeks for review
- Associate Editor combines reviews with own judgment

Showcase: *Medical Science Educator*

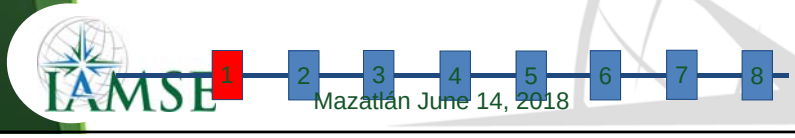
5. Associate Editor communicates with author
   Target: within 10 weeks from submission
6. Author revises manuscript
7. Associate Editor reviews the revision and formulates a decision
8. Editor-in-Chief makes final decision and informs author, Associate Editor and reviewers



Showcase: *Medical Science Educator*

Instructions for Authors (step 1)
See website of journal for rules on:

- Cover letter
- Style
- Language
- Referencing
- File format for manuscript and figures
- Internal Review Board approval



Showcase: *Medical Science Educator*

Why we use peer review (steps 2-3-4)

- Adds value to paper (critical analyzed)
- Maintains standards in publishing
- Check on proper methods, citations
- Check on citation errors
- Check on ethical codes in research
- Constructive comments to authors

Showcase: *Medical Science Educator*

Revision process (steps 6-7)

1. Author reads the comments of reviewers
2. Author makes revisions to manuscript
3. Author explains in a separate letter how comments have been addressed
4. Associate Editor evaluates the revisions
5. If satisfied, article accepted

Showcase: *Medical Science Educator*

Production process (after acceptance):

1. Final version formatted to journal style
2. Proofing by authors
3. Freely available to IAMSE members (website) and Springer clients
4. Accessible through Springer website
5. Accessible through PubMed Central
6. Open access optional

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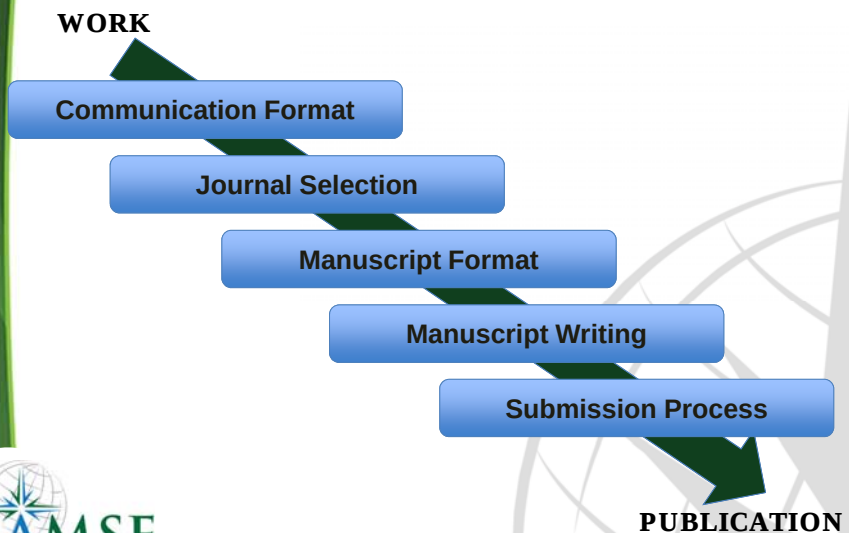
Steps in Publishing your Work



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Tips and Tricks

Solving the questions identified in the beginning of this session

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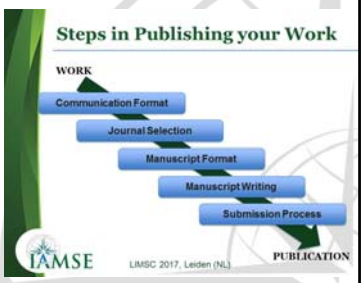
Tips and Tricks

- First decide WHAT you want to publish WHY, WHERE and in WHICH FORMAT with who (co-authors)
- Select an appropriate journal
- Select an appropriate article format
- Pay attention to the writing and grammar and follow the instructions for authors strictly!
- Try to understand the review comments and revise if you agree



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Medical Science Educator

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  www.iamse.org

  Journal: Medical Science Educator
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Closure remarks

Any questions left?

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