



Us ...

- Disclosures
 - ✓ Aurélie Guérin: Nothing to declare
 - ✓ Hervé Maisonneuve: Nothing to declare

Today's agenda

Introduction : 10 minutes

To publish or not to publish : 5 minutes

1. reasons to be published
2. barriers to being published

Group activity to study the following sections of an original article : 70 minutes

1. Title
2. Introduction
3. Methods
4. Results
5. Discussion
6. Conclusion

Full summary/ Questions : 5 minutes

Guidelines of the workshop

This workshop is for your development so make it count!

- Ask a lot of questions. This is your opportunity to learn
- Interaction is key
- Constructive criticism is welcome. Let's advance collectively
- The more you contribute, the more we learn
- Have fun!!!

Your moderators



- ✓ **Aurélie Guérin, Pharm D**
- ✓ **Pharmacist** in the clinical trial sector, Necker hospital, Paris France
- ✓ Published 40+ times in both english in french
- ✓ Co-redactor in chief Journal de Pharmacie Clinique



- ✓ **Hervé Maisonneuve, MD, PhD**
- ✓ **Consultant** in scientific writing

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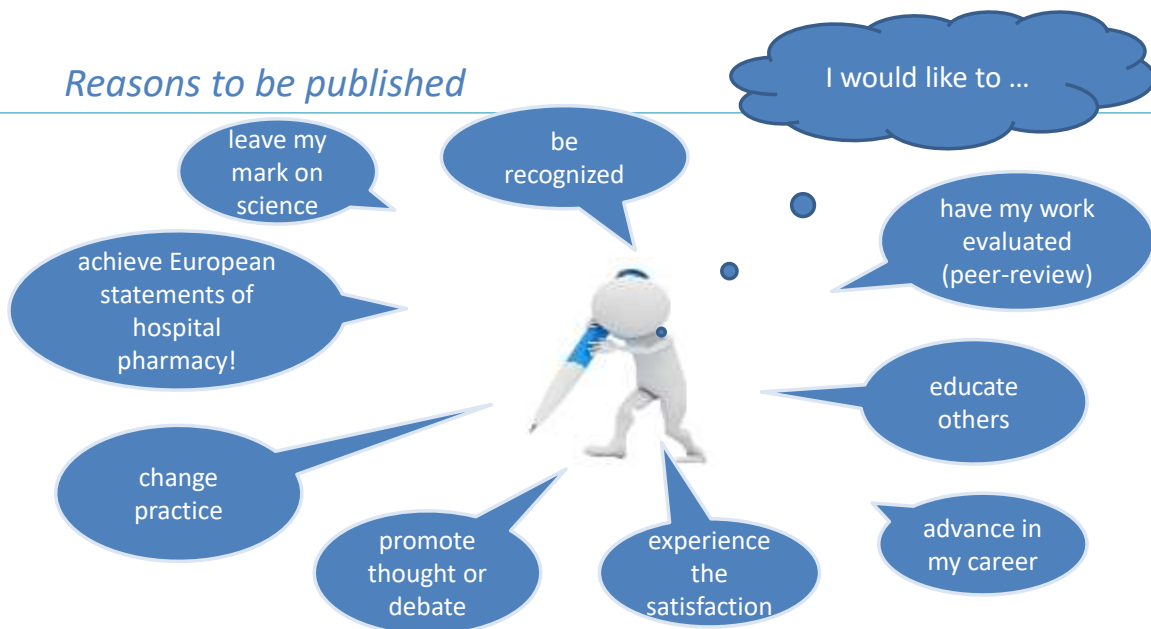
And you ...



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Reasons to be published



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Barriers to being published



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To learn more ...

Pharmacists' views on involvement in pharmacy practice research: Strategies for facilitating participation

Pharmacists' involvement in and attitudes toward pharmacy practice research: A systematic review of the literature

Ahmed Awaisu, B.Pharm., M.Pharm., Ph.D.,
Noor Alsalim, B.Sc.Pharm., Pharm.D.,
*College of Pharmacy, Qatar University, Doha, Qatar
*Department of Medicine, Qatar University, Doha, Qatar

Pharmacy Students' Participation in a Research Experience Culminating in Journal Publication

Diane Nykamp, PharmD., John E. Murphy, PharmD., Leisa L. Marshall, PharmD.,
and Allison Bell, PharmD Candidate*

Challenges to publishing pharmacy resident research projects from the perspectives of residency program directors and residents

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What do editors look for in a publication...



Clearly written

"Wow" factor

Innovative

Unique

Engaging

Valid

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... And common mistakes

- Too often, researchers perform experiments, and afterwards they consider writing scientific papers
- Too often, authors write scientific papers and then consider publishing them

Don't forget the following:

1. Publication should always be top of mind.
2. Structure your experiments and your publication accordingly.



Scientific papers

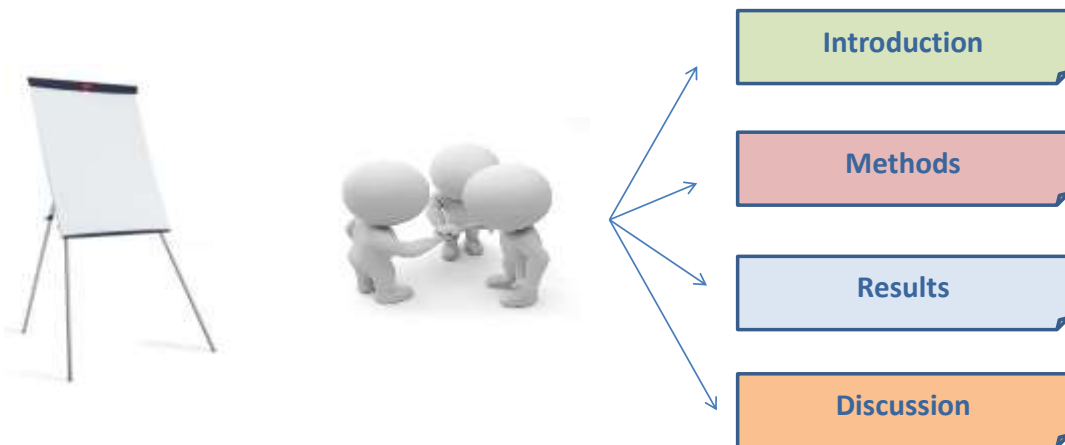
- Different article types ...
 - Original papers
 - Short report
 - Review
 - Editorial
 - Letter to the editor
 - Case report
 - Etc ...



Original papers – Definition?

- The first disclosure containing sufficient information to enable peers to:
 - ✓ Assess observations
 - ✓ Repeat experiments
 - ✓ Evaluate intellectual processes (are the conclusions justified by the data?)
- A clear research question (and an answer)

Original papers – The structure



Original papers – The IMRaD format – The competition

- ✓ A winning team!!

How to win?

- The most visually interesting/creative presentation
- The most memorable presentation
- The most indepth content



Original papers – The IMRaD format – The competition

- The content of your presentation will be assessed as follows:
 1. What is the **GOAL** of your section of the paper
 2. What is the **STRUCTURE** of your section of the paper
 3. Provide some helpful **ADVICE**
 4. Provide some examples of **WHAT TO AVOID**



Original papers – The IMRaD format – The title

Goal: clearly and concisely summarize the subject of the paper



Structure: Title/Running title.
Add a subtitle for the methods



What to avoid:

- ✓ Avoid humour, question marks and “mysterious” titles
- ✓ Abbreviations



Advice:

✓ Not too short, not too long: use existing titles as a point of reference



✓ Indicative or informative: do you want to introduce the main result in the title?

✓ Remember your audience that the reviewers are matter experts

Original papers – The IMRaD format – The competition

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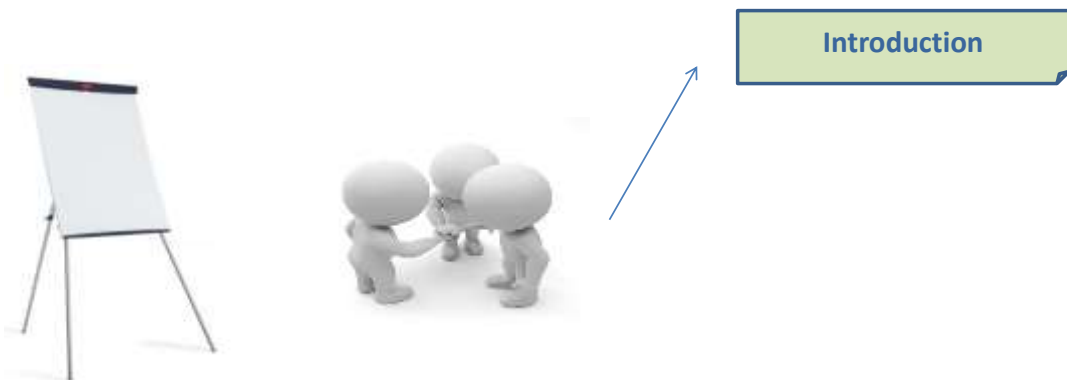
15 minutes

Original papers – The IMRaD format – The competition

3-5 minutes group presentations

Assessment and feedback

Original papers – The IMRaD format – The competition



Original papers – The IMRaD format – Introduction

What is the goal of the paper?

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Original papers – The IMRaD format – Introduction

- **Structure**

3 paragraphs

1. **Known information**
2. **Unknown information**
3. **Question**



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Original papers – The IMRaD format – Introduction

■ Advice

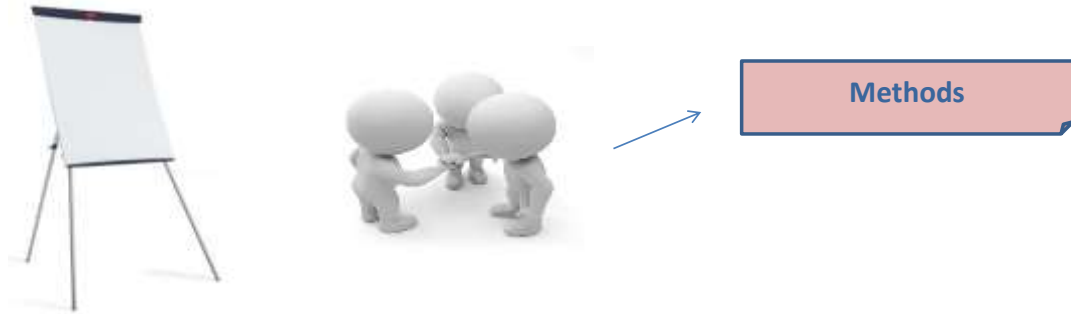
- ✓ Supply sufficient background information to allow the reader to understand and evaluate the study without needing to refer to previous publications on the topic
- ✓ Nature and scope of the problem
- ✓ Review pertinent literature to orient the reader
- ✓ Be conscious of the fact that your reader is likely an expert
- ✓ Length? Five % to 10% of the paper
- ✓ Tenses of the verbs? Past but sometimes present
- ✓ Simple and to the point

Original papers – The IMRaD format – Introduction

■ What to avoid

- ✓ Too long, out of the scope of the research, vague,..
- ✓ No need to make well known generalisations
- ✓ Avoid stating the epidemiology unless it is needed; don't explain that public health matters; don't 'teach' your peers... (your manuscript will be read by an expert reviewer who knows the topic)

Original papers – The IMRaD format – The competition



Original papers – The IMRaD format – **Methods**

How did you design the study?

Original papers – The IMRaD format – *Methods*

■ *Structure*

3 paragraphs

1. **Participants selection
(mice, reagents, patients,
articles)**
2. **Intervention and/or
observations**
3. **Evaluation (primary,
secondary outcomes)**



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Original papers – The IMRaD format – *Methods*

■ *Advice*

- ✓ Be as thorough as possible in order to:
 - ✓ allow others to replicate your experiment
 - ✓ allow others to validate your experiment
 - ✓ allow others to conduct further research

- ✓ Keep in mind that each journal may define their sections differently (ex. 'Methods' or 'Materials and Methods', or 'Patients and Methods')

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Original papers – The IMRaD format – Methods

- ✓ Few readers read the Methods, but they want details, details in order to reproduce the work
- ✓ Keep it clear and concise
- ✓ State the criteria for inclusion, and not the characteristics of the patients (Results)

Original papers – The IMRaD format – Methods

- Include the following:
 - ✓ Overview of the study design in chronological order
 - ✓ If applicable:
 - Date and timeline of study
 - Equipment, with manufacturer, serial number, etc.
 - Researchers' competences (senior/junior), and who analysed the data

Original papers – The IMRaD format – Methods

- ✓ Other information (if applicable):
 - Approval of human or animal research by an appropriate committee
 - Statistical methods
 - Protocol and data storage

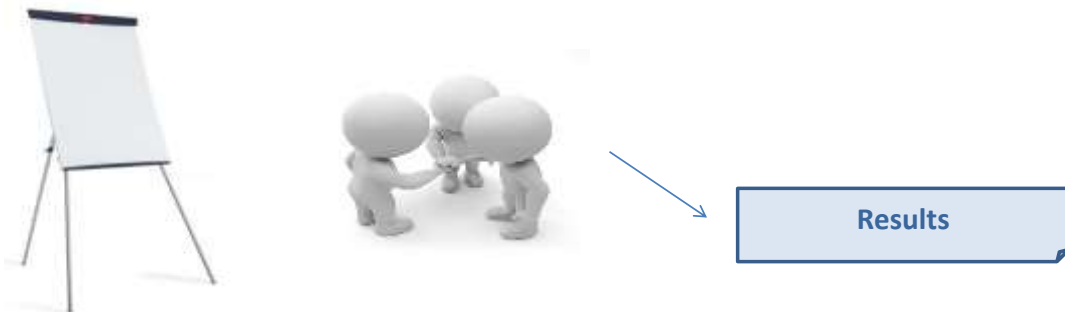
Original papers – The IMRaD format – Methods

- ✓ Some journals, may include subheads
- ✓ Use past tense
- ✓ Helpful to use papers published in the same journal as models
- ✓ Minimize the use of passive voice
- ✓ Precision is key. Avoid 'Mice were injected with....' Prefer 'I/We injected the mice with....' 'A technician (initials) injected the mice ..with'

Original papers – The IMRaD format – **Methods**

- **What to avoid**
- ✓ Do not make the common mistake of including results in this section
- ✓ Do not justify your process
- ✓ Not enough details. Too short
- ✓ Not stating all relevant information

Original papers – The IMRaD format – **The competition**



Original papers – The IMRaD format – Results

What did you find?

Original papers – The IMRaD format – Results

- **Structure**
 1. **Main results (5-10 lines)**
 2. **Illustrations : tables and figures**

Original papers – The IMRaD format – Results

- **Advice**

- ✓ Remember that this is the center of your paper
- ✓ Summarize your findings in lieu of providing data in great detail
- ✓ Present your results and avoid commentary

Original papers – The IMRaD format – Results

- ✓ Present the results in past tense—for example:
 - A total of 417 of the customers replied
 - Heart rate increased, but temperature decreased
 - The average temperature was 39°C
 - This difference was not statistically significant

Original papers – The IMRaD format – Results

- Table and figures:
 - ✓ Avoid extensive overlap / Do not repeat results
 - ✓ In general, the text should present only the main points from the tables and figures
 - ✓ Include only the most relevant data
 - ✓ Remember to cite each table or figure as early as possible Do so as soon as readers might want to see it.

Original papers – The IMRaD format – Results

- ✓ In citing tables and figures, emphasize the finding, not the table or figure:

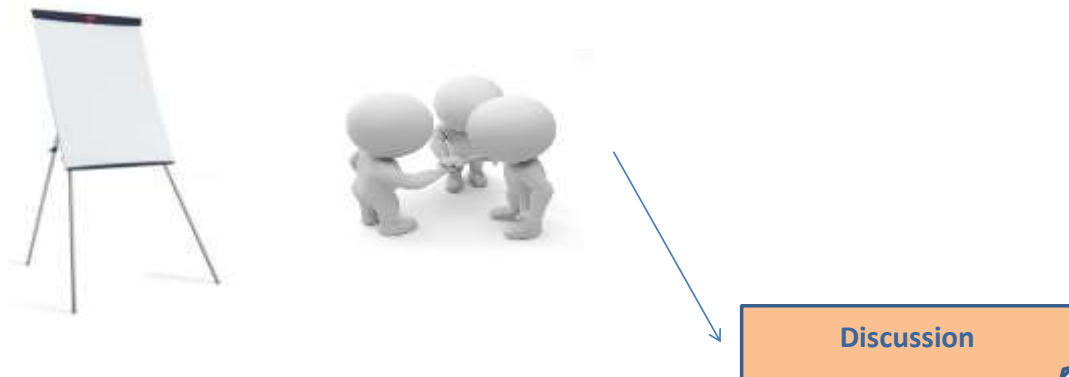
Bad phrasing: Table 3 shows that researchers who took the course, published twice as many papers per year.

Good phrasing: Researchers who took the course, published twice as many papers per year (Table 3).

Original papers – The IMRaD format – Results

- **What to avoid**
- ✓ Repeating information from the tables and figures in the text
- ✓ Misleading figures, and usage of colors (most of the readers will print papers in black and white)
- ✓ Unclear figures and disorganized information
- ✓ Discussion of methods – remember the purpose of your section!

Original papers – The IMRaD format – The competition



Original papers – The IMRaD format – Discussion

What are the possible explanations for the results?

Original papers – The IMRaD format – Discussion

- **Plan**

5 parts:

1. **Clearly and concisely state the results of the experiment**
2. **Strengths and weaknesses of your work**
3. **Strengths and weaknesses of colleagues' past work**
4. **Explain the results, hypotheses, assumptions, etc.**
5. **Possibilities of future research**

Original papers – The IMRaD format – Discussion

■ Advice

- ✓ The discussion should put in context the data and explain the relevance: there is room for opinions
- ✓ Don't forget to state if you observed the expected results
- ✓ Only state what is relevant

Original papers – The IMRaD format – Discussion

■ What to avoid

- ✓ Inconsistency of data
- ✓ Redundancy: this grave sin is frequently committed
- ✓ Medical education:
 - You write for your peers not for students or the lay public
 - Your peers know the disease management
 - They are skilled and don't need too much context



Remember that your readers are usually subject matter experts !!!!

Original papers – The IMRaD format – Conclusion

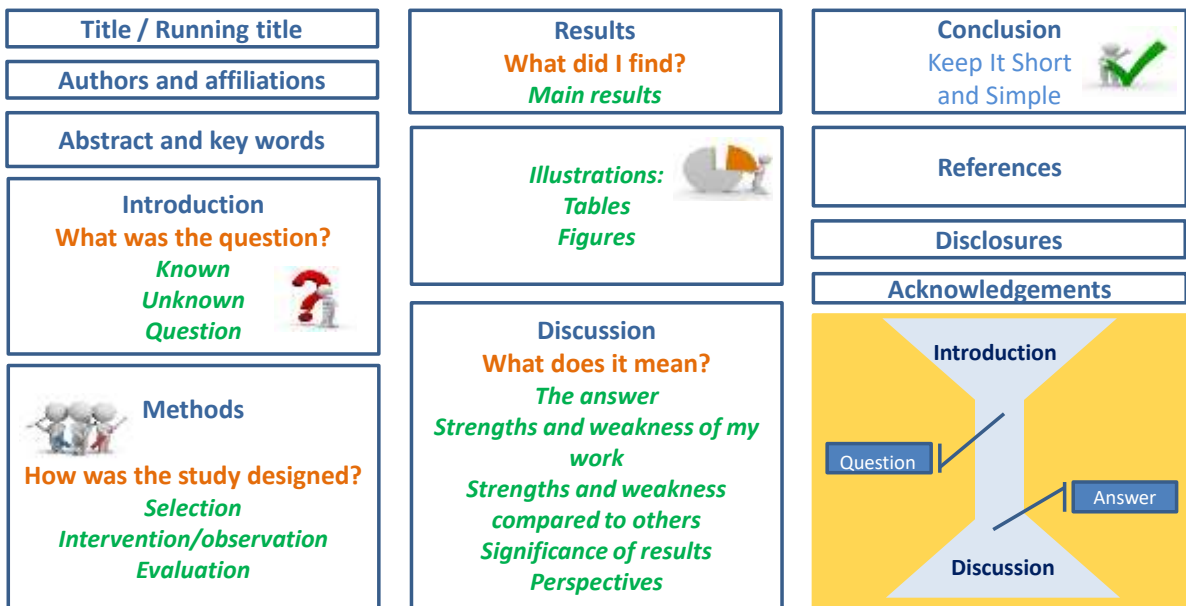
KISS

Keep It Short and Simple

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A quick guide to a successful publication



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3 take home messages

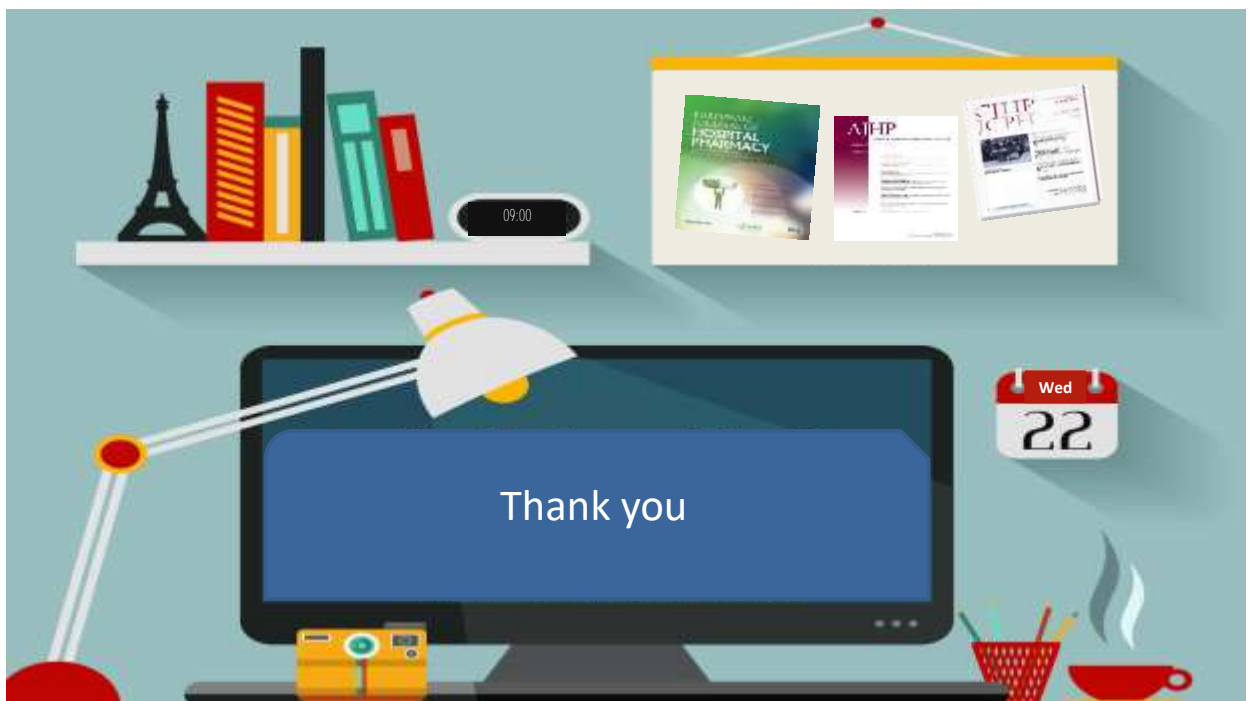
Always a
good reason
to publish

A quick
guide to
follow!

Looking
forward to
reading your
articles

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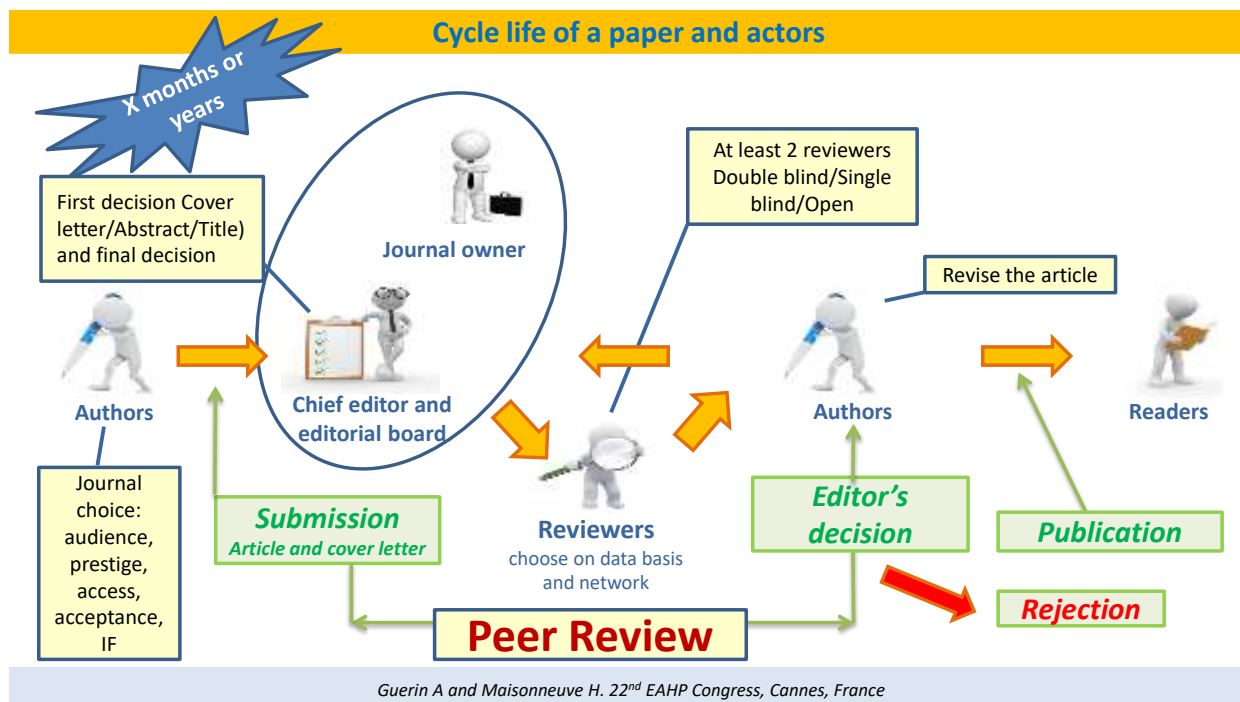
What are the journals' goal?

For 350 years, goals were:

- ✓ State the anteriority of scientific work
- ✓ Dissemination of data to the scientific public
- ✓ Validation: assess the quality of the results to be published
- ✓ Archiving the results of science

From the 1980s:

- ✓ Facilitate the academic promotion!
- ✓ Allocation of resources!



What about hospital pharmacy journals?

- **National level**
 - ✓ Hospital pharmacy journal in your own country
- **European level**
 - ✓ European Journal of Hospital Pharmacy (EJHP)
- **International**
 - ✓ Canadian Journal of Hospital Pharmacy (CJHP)
 - ✓ American Journal of Hospital Pharmacy (AJHP)
 - ✓ American Journal of Health System Pharmacy (Am J Health Syst Pharm)
 - ✓ International Journal of Pharmacy Practice (IJPP)
 - ✓ International Journal of Clinical Pharmacy (IJCP)
 - ✓ Etc...

