

METHODOLOGY OF EXPERIMENTAL RESEARCH

HOW TO WRITE CORRECT PAPER FOR WESTERN-STYLE EXPERIMENTAL RESEARCH
ARTICLE



TITLE

The title should be corresponding to actual aim of the study and research. There should not be any misleading hints in title, nor any wrong leads for reader about a content of the article.



INTRODUCTION

Introduction should consist of essential background theory to be introduced to a reader. From description of phenomena and facts, there needs to be premises formed. Premises is essential background facts and previous research information, that lets author to form hypothesis about his own reseach.



EXAMPLE

- In the study of Smith et al. [2], they pointed out that factor X is in range of 80-120 with mean of 100, therefore we form a hypothesis, that with in our research output should be similar.
- More complex hypothesis is formed from more than one hypothesis. Like:
- X and Y stated that gross motor coordination is essential for proper pirouette movement. Z and H stated that proper vestibular capacities is crucial for proper pirouette movement. Therefore, our premises is that both of those conditions may affect performance of pirouette in our intervention.



MATERIAL AND METHODS

- Firstly goes description of material. It should consist of age, weight or any variable that matters in your study. Also with mean values. Also description if group is homogenic or heterogenic, with similarities and differences.
- Example:
- There were X participants with mean age of Y. There were XY girls and XZ boys, all have the same disability which is cerebral palsy with spasticity of right side of the body



- Methods should consist of exact description of test and way of computing it. Any general statements is not enough. When you analyse for example phytosociological condition of your tested group, you need to state which test you are using, and if not, you need to provide full description of tests.
- It is crucial for reliability and validity of your study. Anyone who is sceptical about your study, should be able to recreate it from your description and conduct their own research based of your methodology. That is why it is important to not leave any secrets about your workshop. Describe everything that was done in your study.

RESULTS

- Results should be stated as raw numbers as a result of statistical computing. Any comments or additional description of method is wrong. If you feel like firstly make introduction to your result, you should go back to methods and put it there. Also comments like : „ participants shows that X participants present high anaerobic capacity ~~which might mean that their training regime is....~~. You do not do that. You just states raw fact. Leave your thoughts to discussion section.



DISCUSSION

This is the most important part, that makes you scientist. Here you present your results in context of previous research. You discuss what is the impact of your research to development of tur scientific field and what should be done in the future, regarding that matter.



CONCLUSIONS

- This section should serve as summarize of your findings in at least 3 points. Its purpose is to generalize your main findings in a context of the world's findings in the discussion. General statements are desired like: Children in an age of X express certain capabilities in performing Y in the test battery of Z.

