



The Principles of Biomedical Scientific Writing: Results

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Abstract

The "results section" of a scientific paper provides the results related to all measurements and outcomes that have been posted earlier in the materials and methods section. This section consists of text, figures, and tables presenting detailed data and facts without interpretation and discussion. Results may be presented in chronological order, general to specific order, most to least important order, or may be organized according to the topic/study groups or experiment/measured parameters. The primary content of this section includes the most relevant results that correspond to the central question stated in the introduction section, whether they support the hypothesis or not. Findings related to secondary outcomes and subgroup analyses may be reported in this section. All results should be presented in a clear, concise, and sensible manner. In this review, we discuss the function, content, and organization of the "results section," as well as the principles and the most common tips for the writing of this section.

Keywords: Result, Writing Scientific Papers, Medical Scientific Journals

1. Context

The "results section" is the heart of the paper, around which the other sections are organized (1). Research is about results and the reader comes to the paper to discover the results (2). In this section, authors contribute to the development of scientific literature by providing novel, hitherto unknown knowledge (3). In addition to the results, this section contains data and statistical information for supporting or refuting the hypothesis proposed in the introduction (4).

"Results section" should provide an objective description of the main findings, clearly and concisely, without interpretation (5, 6). The authors need to use an interesting combination of text, tables, and figures to answer the study questions and to tell the story without diversions (7). The systemic assessment of published articles highlights the fact that the literature frequently suffers from selective reporting of results only for certain assessed outcomes, selective reporting of statistical analyses, and confused, ambiguous, incomplete, or misleading presentation of data (8, 9).

In this section of our series on the principles of

biomedical scientific writing (10, 11), we describe the function, content, and organization of the "results section" in a scientific paper (mostly for hypothesis-testing papers) and provide common recommendations that can help authors to write this section more effectively.

2. The Function of the Results Section

The function of the "results section" is to present the main results of experiments described in the materials and methods section (12, 13) and to present the supporting data in the form of text, tables, and figures (13). This section should answer the basic question: "What did the authors find in research?" By providing the results, authors try to elucidate the research data, making it to the point and meaningful (13).

3. Content of the Results Section

The "results section" includes both results and data that are presented in text, tables, and figures. Results are

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