**OUTLINING CLINICAL RESEARCH
DELINEANDO A PESQUISA CLÍNICA
DELINEANDO LA INVESTIGACIÓN CLÍNICA**

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The book "Outlining Clinical Research" by Stephen B. Hulley, Steven R. Cummings, Warren S. Browner, Deborah G. Grady and Thomas B. Newman, translated by Michael Schimdt Duncan and André Garcia Islabão, and published, in 2015, by the publisher Artmed. As a primary focus, it is the instrumentalization of readers so that they can formulate research questions and plan an effective, systemic and ethical study design.

The work, which is in its fourth edition, was reviewed, based on the understanding and understanding of its authors that Medicine is a dynamic science, constantly changing and, while new research amplifies knowledge, it is necessary to review, discuss concepts and offer complete and consistent information with the context of the subject.

In this way, it was sought to approach all the relevant details to delineate and conduct studies, to qualify the demanding reading of scientific publications, with an understanding of the magnitudes and limitations, and to introduce the beginning readers in this research. Research in health settings.

The 386-page publication presents a cohesive, objective, fluid text that is free from technical terms that are not available and which include, as explicit innovations, the addition and formatting of its content in the

blue color given to subheadings, tables and figures a to optimize the apprehension of text and improve the didactic and aesthetic presentation of the material. It can be affirmed that the book is rich in graphics and tables bringing, as examples, the figures of pages 166 and 194, whose color scheme enables the learning.

It is also added that at the end of each content of the chapters the reader has access to a summary that refers to the main items discussed throughout the text and to a set of practical exercises about the subject exposed, their responses, the glossary and, finally, its index.

In summary, the work in three complementary parts guided by the summary is divided: in Section I, which refers to the Basic Ingredients, introducing the clinical research; the elaboration of the research question; the choice of study subjects; the planning of measurements; how to estimate sample size and statistical power. Section II is outlined in detail in the Research Outline, which covers cross-sectional and cohort studies; case-control studies; causal inference in observational studies; randomized blinded trial; studies on medical tests and surveys with existing data.

It is entitled, in Section III, the Implementation, which concerns the approach to ethical issues; the preparation of questionnaires, interviews and online tools; to data management; study implementation and quality control; Community and international studies and the drafting of a proposal to apply for funding.

In terms of content, it is referred to the main revisions and updates of this edition to the presentation of texts, figures and tables in a concise way, as well as the addition of many examples, new references and new sections in order to gather recent clinical research findings. The new sections are also exemplified by the reorganization of the chapters on the observational studies of past editions, which in this work presents a chapter devoted to other types of study designs.

The chapter on data management with the latest web approaches has been rigorously updated. In short, this edition includes a complementary material on the English website with materials for consultation, helping to choose the type of research design.

The book is known in its past editions because it is a guideline widely used in the area, as it fulfills the proposal to direct readers regarding the principles of Epidemiology and the concepts of clinical research in depth, but rather are viewed in a practical way. It is recommended the work for specialists in the medical field, nurses, pharmacists, other health professionals, scientists and academics in the biomedical area.

Finally, readers are invited to concentrate their efforts on the most important points of the research, demystifying technical concepts of statistics and encouraging the autonomy of those who already have basic knowledge and who excel in the evolution of scientific knowledge.

REFERENCE

Hulley SB, Cummings SR, Brower WS. Delineando a pesquisa clínica. 4th ed. Porto Alegre: Artmed; 2015.

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