

How to write a laboratory-based case study for the Journal

Rob Siebers, FNZIC, FNZIMLS, CBiol FBS; Journal Editor

School of Medicine and Health Sciences, University of Otago, Wellington

Abstract

Case studies are educational for the reader. They bring together laboratory results with the patient's clinical diagnosis. Case studies include description of an unusual disorder or aetiology, support for or disconfirmation of a clinical hypothesis, new insight into disease pathogenesis, unusual case presentation, and description of adverse drug or food-induced reactions. Case studies show what medical laboratory science is all about - as a diagnostic aid for the clinician. In this article I will briefly describe the characteristics of a case study for submission to the Journal.

Key words: case study, clinical diagnosis, laboratory results

N Z J Med Lab Sci 2010; 64: 22-23

Introduction

Case studies published in the Journal brings together laboratory results with the patient's medical conditions and clinical diagnosis. They are educational for the reader and shows what medical laboratory science is all about - as a diagnostic aid for the clinician. Reasons for submitting case studies include: presentation of an unusual disorder or unusual aetiology; to support or disconfirm a clinical hypothesis; offer new insight into disease pathogenesis; to describe an unusual case presentation; or to describe adverse drug or food-induced reactions.

For the last two years there has been an annual prize awarded by the NZIMLS for the best case study published in the Journal during the calendar year (1,2). In this educational article I will briefly describe how to write up a case study and hope this will spur some from our profession to submit case studies to the Journal. Over the years many good case studies have been presented at S&G or other scientific meetings yet only a very few have been published in the Journal, where a larger and an increasing international readership awaits. Case studies are important contributions to the medical laboratory science literature and evidence base, are educational for readers, and are often a way for authors to start their publication record.

Case studies typically are divided under the following headings: Title, Abstract, Introduction, Case Report, Results, Discussion, Conclusions, Acknowledgements, References.

Title

The title should be accurate description of the case study followed by the words - "a case study", or case studies if more than one patient is presented as in a retrospective analysis. Do not use a funny title, except maybe as a subtitle. The title should alert the reader to the main focus of the case study.

Abstract

Unlike a scientific article, the abstract for a case study is unstructured, i.e. no subheadings of background, methods, results and conclusions. The abstract should start with a very brief background generally outlining the clinical condition of the case study to be presented. This is followed by a paragraph briefly

outlining the case study with only the relevant clinical details and the main laboratory results. In the final paragraph state the overall conclusion arising from the case study. At the end include up to five key words, preferably medical subheading terms from Index Medicus. An excellent example is the case study published in the August 2008 issue of the Journal (1).

Introduction

Describe clearly the purpose of the case study and provide a brief review of the published literature pertaining to the topic. Do not write an in-depth review of the topic. The best type of articles to reference here are previously published review articles and, if relevant, the first described case in the literature. Do not discuss your case study in relation to the published literature here. This is for the Discussion section later.

Case report

This is the part where you describe the patient's medical presentation, outcomes, treatments if applicable, and laboratory results. The case study has to be presented in a chronological order with enough but succinct details. For the laboratory results include your laboratory's reference ranges and units of measurement. Often, if there is a lot of laboratory data, especially if the patient is followed over many days, it is better to present the data in tables and/or figures. Do not repeat data in text that is presented in the tables or figures. Only present data that is pertinent to the case study, do not add other laboratory data from tests ordered that do not add value to the case study.

An important consideration is patient privacy. Nowhere in the case study must the patient be able to be identified. If a photo of the patient is critical for the case study report, written informed consent is essential. Contact your local institution's ethical authority for guidance and approval. Another consideration is the clinician or medical team caring for the patient. They may have plans to write up the case study for possible publication in a medical journal. If published elsewhere, duplicate publication of the case in the Journal is not allowed. Contact the primary care physician in the first instance and explain that you wish to publish the case, focussing primarily on the laboratory data. Offering the clinician co-authorship, often leads to agreement in allowing you to write up the case study.

Discussion

This is the part of the paper where the author discusses the case and the laboratory findings. Relate the case to what is already known from the published literature and if the results are different to what has been published, discuss possible reasons for this and what your opinion is. State any limitations to your case study. For instance, it may have been useful to have additional laboratory results for other tests, but these were not ordered at the time. You should also state, if so, what was unique about your case study.

Conclusion

The conclusion should briefly and succinctly be what was learned from the presented case study, it should not be a repeat of the case

Case Studies In Clinical Laboratory Science

Linda Graves



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Ibrahim A. Hashim, 2025-02-01 Training in clinical chemistry is acquired via different avenues that include didactic lectures on pathophysiology of disease methodologies and practical aspects of testing and through attendance of operations meetings sign out sessions seminars and tutorials There is little instruction on how to apply the vast amount of knowledge gained in the process to practice In other branches of medicine cases are regularly presented with clinical information and therapeutic interventions which form the basis of training Diagnostic Reasoning Laboratory Based Case Studies in Clinical Chemistry fills this gap for clinical chemistry The concise and practical approach of the book including real life scenarios is an excellent resource for pathology trainees clinical laboratory science students clinical chemistry fellows clinical laboratory professionals and clinicians These cases help professionals remain competent in the field and be successful in their board exams The cases are stated as they present often with no or few clinical details accompanying the sample request with only barcoded samples arriving into the laboratory In a busy laboratory thousands of these cases are received daily and it is impossible to review the clinical information associated with the specimens There are no books with a similar approach and emphasis Fills the gap in teaching by addressing the subject from a laboratory practical prospective with concomitant application of evidence based laboratory investigation Presents laboratory data in tabulated format to resemble real life scenarios shows list of abbreviations and conversion factors Cases begin with clinical presentation and information not available to those within the clinical laboratory Discusses the differential diagnosis and suggests additional testing or investigations as necessary Clinical Laboratory Science - E-Book Mary Louise Turgeon, 2022-09-14 Selected for Doody's Core Titles 2024 in Laboratory Technology Using a discipline by discipline approach Turgeon's Clinical Laboratory Science Concepts Procedures and Clinical Applications 9th Edition provides a fundamental overview of the concepts procedures and clinical applications essential for working in a clinical laboratory and performing routine clinical lab tests Coverage includes basic laboratory techniques and key topics such as safety phlebotomy quality assessment automation and

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Clinical Laboratory Systems, 1983

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