

Analysis of the structure of original research papers: an aid to writing original papers for publication

JOHN SKELTON

SUMMARY

Background. An increasing number of people involved in medicine are under pressure to publish research, but there is little understanding of how to describe structured writing.

Aim. This paper aims to describe the structure of original research papers published in the *British Journal of General Practice* with a view to providing insight into the nature of such analyses, and particularly to help researchers and trainers to write and teach writing more successfully.

Method. A sample of 50 original papers published in the *Journal* between January 1989 and March 1993 were examined. The papers were subjected to a form of 'move structure analysis', a technique used in applied linguistics; move structure analysis assigns a tentative function to a piece of text, and identifies words/phrases associated with it. To be recognized, moves thus identified had to occur in the same section of the paper in 65% of the corpus, and/or appear in the same order relative to other moves in 50%.

Results. Fifteen moves were identified, four in the introduction, three in the method, and four each in the results and discussion. These moves functioned, for example in the discussion, to state limitations and defend successes; describe achievements; contextualize procedures and findings; and offer recommendations. Frequency scores ranged from 66% to 100%, and order stability scores from 50% to 80%, with three moves being unordered.

Conclusion. It is possible to derive from this study a template for structuring academic medical writing. This template may be built up from the exemplificatory quotations in the text, to provide assistance to educators and less experienced writers.

Keywords: research in general practice; manuscript preparation; research methodology; periodical content.

Introduction

WRITING for publication is an important skill for an increasing number of people in medicine. For some, publication means prestige and career advancement, for others a means of kindling intellectual interest by opening and sustaining dialogues.

There is a growing literature within the field of applied linguistics on the structure of the scientific research paper,¹⁻⁴ much of it discussed or alluded to by Swales,⁵ and there is a now substantial body of work on the sociology of the scientific research paper.⁶⁻¹⁰ Relatively little of this work, however, is on medical

writing and the fact that it is seldom, if ever, cited in academic medicine is probably because it is unknown within medicine. Of studies on aspects of communication within medicine, there is a vast amount on spoken language, particularly the general practitioner consultation — Stewart and Roter include a comprehensive update.¹¹ However, where attempts at identifying a structural taxonomy are made these tend to rely on observer's impressions rather than analysis. There is less on written language, and almost nothing that touches on the social context of scientific writing, while even Huth's excellent guide has little to say on linguistic structure.¹² Most journals, including the *British Journal of General Practice*, offer some sort of advice to authors, sometimes (as with this *Journal*) further referring the reader to the work of the International Committee of Medical Journal Editors.¹³ Such advice, however, tells prospective writers what to do rather than how to achieve it. Moreover, the majority of *vade mecum* (guides) that set out to help with scientific writing are weak, mistaken in matters of language, or exhortatory rather than educational — in effect, full of suggestions that the writer should 'be clear', with misleading indications, or none at all, as to how clarity is to be achieved.

It was assumed that an author seeking publication wishes to stake a claim in the scientific community by shaping knowledge in an appropriate manner. This paper therefore has three aims. First, to offer a description of the structure of papers published in the *British Journal of General Practice*. Secondly, to offer insight into how the analysis of a text might be approached. Thirdly, and most importantly, to outline a basic template for the structuring of academic work, of value to readers who perceive themselves as having difficulty in writing for publication and which can provide the bare minimum which must be included in an original paper.

Method

The corpus consisted of 50 research articles published in the original papers section of the *Journal* between January 1989 and March 1993. Only original papers were considered since the constraints on structural variety for this section are stronger; the same is true for most scientific journals. Articles for inclusion in this section are not solicited, and are therefore in competition with other papers and subject to the value judgements of the assessors. For the same reason — the stronger constraints imposed — only papers which contained the traditional sections of introduction, method, results and discussion were included. The great majority of original papers conformed to this structure, it being editorial policy. All 16 original papers in the January to March 1993 issues were included to bias the material studied towards recent practice. All original papers published between 1989 and 1992 were then assigned a number and 34 were drawn at random to make up the balance of the sample.

Move structure analysis

The corpus was then subjected to a form of move structure analysis. This is a technique developed in applied linguistics to analyse spoken or written language. 'Move' as a technical term dates back to Sinclair and Coulthard¹⁴ (a full definition of a

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Submitted: 3 November 1993; accepted: 16 March 1994.

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Dorn,Carla Soffos,2005 Discusses reading comprehension and offers ways for teachers to develop it in their students exploring the cognitive and social aspects of comprehension while viewing it as an active process **English for Academic Research: A Guide for Teachers** Adrian Wallwork,2016-05-19 Scientific English is possibly the most rewarding area of EFL teaching It differs from English for Academic Purposes EAP as it is directed to a much smaller audience PhD and postdoc students Courses on Scientific English are held in universities throughout the world yet there is very little support for teachers in understanding what to teach and how to teach it This guide is part of the English for Academic Research series Part 1 of the book sheds light on the world of academia the writing of research papers and the role of journal editors and reviewers Part 2 gives practical suggestions on how to help your students improve their presentation skills In Part 3 you will learn how to teach academic skills using nonacademic examples Parts 1 3 are thus useful for anyone involved in teaching academic English whether they have used the other books in the series or not Part 4 suggests two syllabuses for teaching writing and presenting skills based on the two core books English for Writing Research Papers English for Presentations at International Conferences This book will help you i understand the world of your students i e academic research ii plan courses and iii exploit the What s the Buzz sections in the books on Writing Presentations Correspondence and Interacting on Campus Adrian Wallwork has written over 30 books covering General English Cambridge University Press Scholastic Business English Oxford University Press and Scientific English Springer He has trained several thousand PhD students from all over the world to write and present their research Adrian also runs a scientific editing service English forAcademics E4AC

Resources in Education ,2001-04 **The Quick Fix Guide to Academic Writing** Phillip C. Shon,2017-10-30 Whether you re writing a paper essay assignment or dissertation this short and punchy book helps you improve your writing skills through minimal effort Providing you with a quick set of writing rules to follow this tried and tested guide uses a unique and easy to follow grid based system Packed with advice on understanding big and little common errors made in academic writing it helps you identify patterns in your own writing and demonstrates how to reshape or re evaluate them and raise your writing game in any academic context How to tutorials include Synthesizing and critiquing literature and using your

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comprehensive theory to practice text helps teachers understand the task of writing L2 writers the different pedagogical models used in current composition teaching and reading writing connections Moving from general themes to specific pedagogical concerns it includes practice oriented chapters on the role of genre task construction course and lesson design writing assessment feedback error treatment and classroom language grammar vocabulary style instruction Each chapter includes Questions for Reflection Further Reading and Resources Reflection and Review and Application Activities An ideal text for L2 teacher preparation courses and in service writing instructors the text offers an accessible synthesis of theory and research that enables readers to see the relevance of the field s knowledge base to their own present or future classroom settings and student writers New to the Fourth Edition Updated with new research theory and developments in the field throughout the text Visually accessible layout and design for improved reader navigability Expanded attention to technological affordances for writing pedagogy Stand alone reference list in each chapter Support Material with activities and resources from the text also available on the book s webpage at www.routledge.com 9780367436780 *Genre in the*

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