

# A MOVE ANALYSIS OF HIGHLY CITED MEDICAL RESEARCH ARTICLES ON COVID 19

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#### INTRODUCTION



Publishing research articles is a vital aspect of academic life, yet many novice writers struggle with organizing their articles effectively. While extensive research has been conducted on the move structures of medical research articles, there has been limited focus the structural organization across the abstract, introduction, results and discussion sections. There is also a lack of research analyzing highly cited medical research articles. Therefore, this study aims to analyze the move structures employed in highly-cited medical research articles on COVID-19 and to evaluate the applicability of the collaborative frameworks to medical research articles.

### LITERATURE REVIEW

Move analysis identifies communicative roles in text segments, where a move is a coherent discourse unit with a specific purpose, such as indicating a research gap (Swales, 2004). Moves can be further broken down into smaller units called steps (Jirapanakorn et al., 2014).

#### Previous studies on medical research articles:

- Core moves and their development (Nwogu, 1997; Li & Ge, 2009).
- Detailed analysis of structural elements and linguistic aspects (Fryer, 2012; Huang, 2014).
- Comparative studies of introductions (Jirapanakorn et al., 2014; Meng, 2021)
- Analysis of abstracts section (Abdollahpour & Gholami, 2019).
- Analysis of IMRD section (Davis, 2020).

#### **METHOD**

Design: Descriptive qualitative

Data source: Scopus database

Data collection:

Source Criteria Type:

- Journals (Articles only),
- Language: English
- Relevance Keywords

Selection Process:

- Initial Filter: Based on selection criteria
- Citation Count: Top 50 articles selected
- Final Relevance: Sorted by specific medical field interest
- Final Corpus: 30 article

The selected articles are analyzed by utilizing the collaborative framework proposed by Hyland (2000) for Abstract, Swales (2004) for Introduction, Cotos et al. (2017) for Method, and Moreno & Swales (2018) for Results and Discussion.

#### Data analysis:

- Segmentation
- Linking
- Frequency Calculation

The analysis categorized moves and steps into conventional (>60%) and optional (<60%) types based on Kanoksilapatham's (2005) theory.

# FINDING AND DISCUSSION

Move structure in the abstract section

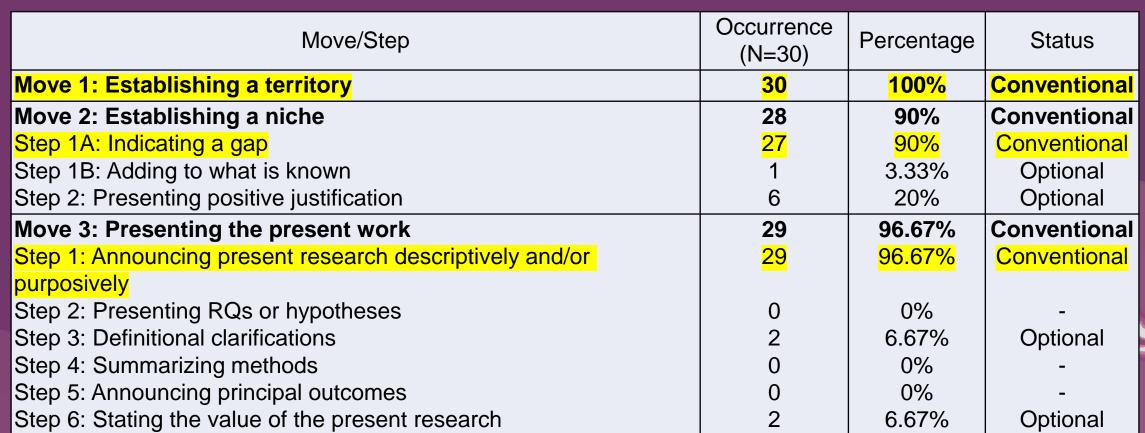


Move/Step	Occurrence (N=30)	Percentage	Status
Move 1 Introduction	29	96.67%	Conventional
Move 2 Purpose	11	36.67%	<b>Optional</b>
Move 3 Method	30	100%	Conventional
Move 4 Product	30	100%	Conventional
Move 5 Conclusion	30	100%	Conventional

## FINDING AND DISCUSSION

Move structure in the introduction section

Step 7: Outlining the structure of the paper



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# FINDING AND DISCUSSION

#### Move structure in the method section

Move/Step	Occurrence (N=30)	Percentage	Status
Move 1: Contextualizing study methods	28	93.33%	Conventional
Step 1: Referencing previous works	6	20%	Optional
Step 2: Providing general information	0	0%	-
Step 3: Identifying the methodological approach	20	66.67%	Conventional
Step 4: Describing the setting	9	30%	Optional
Step 5: Introducing the subjects/participants	26	86.67%	Conventional
Step 6: Rationalizing pre-experiment decisions	1	3.33%	Optional
Move 2: Describing the study	30	100%	Conventional
Step 1: Acquiring the data	22	73.33%	Conventional
Step 2: Describing the data	11	36.67%	Optional
Step 3: Describing experimental/study procedures	29	96.67%	Conventional
Step 4: Describing tools	4	13.33%	Optional
Step 5: Identifying variables	6	20%	Optional
Step 6: Rationalizing experiment decisions	5	16.67%	Optional
Step 7: Reporting incrementals	0	0%	-
Move 3: Establishing credibility	30	100%	Conventional
Step 1: Preparing the data	1	3.33%	Optional
Step 2: Describing data analysis	<mark>30</mark>	<mark>100%</mark>	Conventional
Step 3: Rationalizing data processing/analysis	3	10%	-

#### Move structure in the results and discussion section

Move/Step	Occurrence (N=30)	Percentage	Status
Move 1 (AF): Announcing (function)	29	96.67%	Conventional
Step 1 (SEC): Announcing (sub) sections	29	96.67%	Conventional
Step 2 (EXT): Announcing or referring the reader to external sources	0	0%	-
Step 3 (MSP): Announcing moves, steps or propositional meaning	0	0%	-
Move 2 (BGI): Background information	18	60%	Conventional
Step 1 (KFS): Restating key features of the current study	8	26.67%	Optional
Step 2 (RWC): Reporting background information with citations procedures	10	33.33%	Optional
Step 3 (POC): Providing background information without citations	4	13.33%	Optional
Move 3 (SUM): Summarizing or restating key result	30	100%	Conventional
Step 1 (RES): Presenting results neutrally	30	100%	Conventional
Step 2 (CRES): Contrasting with other results in the study	19	63.33%	Conventional
Step 3 (HRES): Highlighting results	<mark>30</mark>	<mark>100%</mark>	Conventional
Move 4 (COMM): Commenting on key results or other features	30	100%	Conventional
Step 1 (MEAN): Establishing the meaning of results	26	86.67%	Conventional
Step 2 (COMP): Comparing with previous research	25	83.33%	Conventional
Step 3 (EXPL): Explaining results or discussing effects	28	93.33%	Conventional
Step 4 (PRED): Making predictions	2	6.67%	Optional
Step 5 (REACT): Reacting to results or other features	0	0%	-
Move 5 (EV): Evaluating the current study or other research or practice	26	86.67%	Conventional
Step 1 (LIM): Pointing out negative features or limitations of the current study	<mark>25</mark>	<mark>83.33%</mark>	Conventional
Step 2 (STATE): Evaluating the state of knowledge or practice in broad terms	3	10%	Optional
Step 3 (CONTR): Stating the contribution of the current study	7	26.67%	Optional
Step 4 (POS): Pointing out positive features of the current or proposed study	5	16.67%	Optional
Step 5 (GAD): Noting sprecific gaps in knowledge or deficiencies in other research or practice	0	0%	-
Move 6 (IMP): Drawing implications	22	73.33%	Conventional
Step 1 (REC): Making recommendations for future research or practice	22	73.33%	Conventional
Step 2 (APP): Suggesting the applicability of results or usability of outcomes	5	16.67%	Optional
Step 3 (HYP): Hypothesizing for future research	3	10%	Optional
Move 7 (ELF): Elaborating (function)	0	0%	-
Step 1 (JUST): Justifying what is stated in a neighbouring proposition	0	0%	-
Step 2 (EXEM): Exemplifying what has been stated in a previous proposition	0	0%	-
Step 3 (CLAR): Clarifying what has been stated in a previous proposition	0	0%	-

### CONCLUSION



- The findings align with the research objectives, which involve analyzing the move structures utilized in highly-cited medical research articles on COVID-19 and evaluating the applicability of collaborative frameworks to such articles.
- The findings contribute to provide a framework for future researchers, specifically in the medical discipline.

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# THANK YOU!