

Prosthodontic Journal Literature: Its Contribution to Evidence-Based Prosthodontic Dentistry

Nisha Rani Jamwal*, Senthil P. Kumar**

Abstract

This short communication paper aimed at exploring the studies on analysis of prosthodontic journal literature through a research-based overview of PubMed. The evidence presented here in this paper was too insufficient to derive inference on the current stat and role of prosthodontic journals and its implication in evidence-based prosthodontics. Three studies were found, one on quality of RCTs, one on developing a registry of RCTs, and one on reporting of statistical methods.

Keywords: Evidence Based Prosthodontics; Research Analysis; Publication Trend; Scientific Status.

This short communication paper aimed at exploring the studies on analysis of prosthodontic journal literature through a research-based overview of PubMed.

Dumbrigue et al [1] assessed the methodological quality of 62 RCTs out of total 3631 articles published in three prosthodontic journals (The International Journal of Prosthodontics, The Journal of Prosthetic Dentistry, and The Journal of Prosthodontics) from 1988-1997. The method of randomization was explicitly reported in only 47%, blinded outcome assessment in 40%, and 76% accounted for all subjects. The quality assessment scores revealed that only 16% of RCTs attempted to control bias in all 3 areas examined.

Dumbrigue et al [2] developed a catalogue of RCTs published in three prosthodontic journals (The International Journal of Prosthodontics, The Journal of Prosthetic Dentistry, and The Journal of

Prosthodontics) to create a register of clinical trials that would be a resource in setting up future systemic overviews of prosthodontic literature. 62 Clinical trials out of total 3631 articles which were on human subjects, including at least 2 treatment groups, and randomizing treatment group allocation were included in the registry.

Prihoda et al [3] evaluated the frequency of descriptive, graphical, and inferential statistical procedures used in the prosthodontic literature by four steps: journal selection, choice of 1987 through 1988 articles with inferential statistical content, tally of the statistical procedures in those articles, and quality control procedures used in obtaining these data. In the 17 journals selected by prosthodontists, 406 out of 1320 articles were selected and evaluated for their statistical procedures. More than 25% used the bar and line plots; percentages, means, and standard deviations were used in more than 40%; p-values in 58%; analysis of variance in 42%; t-tests in 29%; correlation/regression in 21% and Chi-square tests were used in 14%.

The evidence presented here in this paper was too insufficient to derive inference on the current stat and role of prosthodontic journals and its implication in evidence-based prosthodontics. Three studies were found, one on quality of RCTs, one on developing a registry of RCTs, and one on reporting of statistical methods.

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Author's Affiliation: *Physiotherapist, Department of Physiotherapy, Fortis Super Speciality hospital, Phase-9, Mohali, Punjab, **Professor & Principal, Maharishi Markandeshwar Institute of Physiotherapy and Rehabilitation (Maharishi Markandeshwar University), Mullana University, Road, Mullana, Ambala - 133207, Haryana, India.

Reprints Requests: Senthil P. Kumar, Professor & Principal, Maharishi Markandeshwar Institute of Physiotherapy and Rehabilitation (Maharishi Markandeshwar University), Mullana University, Road, Mullana, Ambala - 133207, Haryana, India.

E-mail: senthilparamasivamkumar@gmail.com

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