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Global Trends on Studies with Cognitive Training: Mapping and Bibliometric Analysis using CiteSpace

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Abstract

The widespread utility of cognitive training has enhanced its value throughout the lifespan of human beings by way of maintaining cognitive performance, reducing neuropsychiatric illnesses, restoring their abilities, and preventing cognitive decline. The objective of this article is to explore the global trends on cognitive training studies. Publication records were obtained from the Web of Science (WoS) core collection during the period between 1996 and 2020. CiteSpace 5.7.2.0 version software was used for mapping and bibliometric analysis. The extracted records were analyzed using bibliometric approaches such as dual-overlay analysis, author co-citation analysis (ACA), document co-citation analysis (DCA), and keyword analysis. Overall, 4,528 records were retrieved during the period between 1996 and 2020. It was found that the publication records were increased steadily in the recent five years (2016-2020). The US academic institutions and journals played a dominant role on cognitive training field. However, University College London (UCL) is the highest publication records (108) with a centrality value of 0.10. Few studies were found from the developing countries/territories. Author *Orrell, M* had the highest number of publications (43). However, Author *Wechsler, D* has the highest citation count (667) during this period. Through the document co-citation analysis (DCA), it was found that applying cognitive training on various diseases viz., Alzheimer's disease, Dementia, and Parkinson disease as the predominant trend on this domain. The most recent burst keywords such as 'age difference,' 'brain plasticity,' 'cognitive intervention,' 'validation,' and 'virtual reality' were considered to be the indicators of emerging trends.

Keywords: cognitive training, bibliometrics, citation analysis, citespace