

# Scientometric Analysis with Special Reference to the Publications Indexed in SCOPUS on rTMS during 2008 to 2017

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## ABSTRACT



The word rTMS is the acronym of “repetitive Transcranial Magnetic Stimulation”, which is an effective treatment for “suicidal idea”. The ever green growing research paved way to the findings of a treatment viz., rTMS, which is exclusively to eradicate the idea of suicide from the mind of the individuals who are mentally in a status of tempting to commit suicide. With a social concern, it was decided to do a scientometric analysis on rTMS . The data indexed in the database SCOPUS is downloaded for ten years from 2008 to 2017. Appropriate Hypotheses are framed and tested with statistical tools such as Regression and Kolmogorov-Smirnov Test. The year wise publications and the patents are processed for a regression test to find out the possibility of assessing the doubling time of records and predicting the future number of publications and patents through Time Series Analysis. Percentage analysis for the type of publications, source wise publications and language wise publications are ascertained. Top twenty countries and top twenty affiliated institutions involved in publishing on rTMS are identified and tabulated. The Lotka’s Law has been applied and tested with the KS Test. With an intention to pull down the statistics of the fatal end through suicide, it is further submitted a request to the global society of medical science to allocate more and more research projects to enhance the research of the medical scientists to create more and more innovative therapy such as rTMS.

Keywords: Scientometric Analysis; Regression Test; Repetitive Transcranial Magnetic Stimulation; Lotka’s Law; Kolmogorov-Smirnov Test.



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