Analysis Tutorial Overview

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**Developing the functional R code for the bibliographic status of antimicrobial-resistant research in Bangladesh from 2000 to 2023**

Antimicrobial Resistance (AMR) is a global concern that threatens the effective prevention and treatment of an ever-increasing range of infections caused by micro-organisms. In South Asia, especially in Bangladesh, AMR is one of the prime health issues, and bibliographic status in terms of research works would be a great option to draw the attention of policymakers to face the AMR challenges. I have designed the analysis tutorial to develop the R codes for two research questions. The research questions are “How is antimicrobial-resistant research getting more concern in terms of publication over the 23 years?” and “Determine the annual growth rate (AGR) and doubling time (Dt) of the publication along with the top five cited years”. To get the dataset, I have collected year-wise publication data from Google Scholar by using the keywords (e.g. Antimicrobial Resistance in Bangladesh) per year selection. After that, I imported the data set into R and installed the required packages that can generate the summary of the bibliographic status, histogram of the publication scenario per year, scatter plot, and pattern of the publications trends, calculating the annual growth rate (AGR) and Doubling time (Dt) of the publications of AMR. All the code sequences are saved into a .R file and all the required files are shared at <https://github.com/Mehadisohag/mytutorial>. So, in conclusion, I think that using R code in the bibliographic study (specifically to visualize the graphs and plots) of antimicrobial-resistant research in Bangladesh from 2000 to 2023 is a convenient option rather than other contemporary analysis approaches.

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