

CHATBOTS: PIONEERING INNOVATION IN DENTAL EDUCATION – A SCOPING REVIEW

Name of Author – **Shubhdrangi**, Vikrant Mohanty, Aswini YB, Sneha Malhotra, Mehak Jain
Dept. of Public Health Dentistry, Maulana Azad Institute of Dental Sciences, New Delhi
Mail ID- shubhdrangi17@gmail.com

INTRODUCTION

CHATBOTS– Generative AI

An Emerging educational tools.

AIM- To evaluate effectiveness of integrating chatbots into dental education.

METHODOLOGY

PRISMA-ScR Checklist and Joanna Briggs Institute (JBI) framework.

DATABASE SEARCH- **PubMed, ScienceDirect, Scopus, Web Of Science**

Using **5 Keywords**

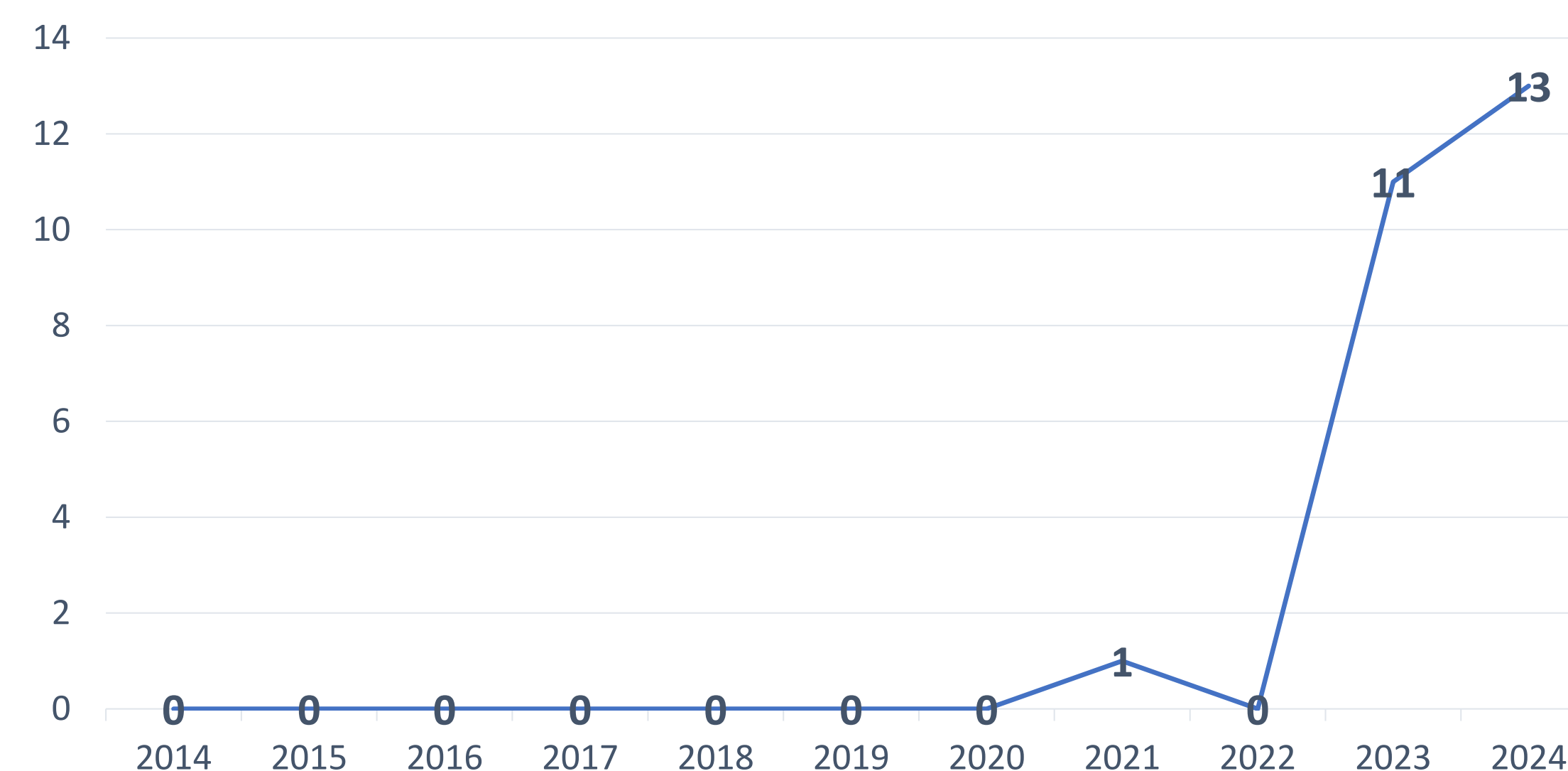
RECORDS IDENTIFIED

N= 993

RECORDS INCLUDED BASED ON INCLUSION / EXCLUSION CRITERIA

N= 25

RESULTS



DISCUSSION

- Review assessed integrating chatbots into dental education.
- Result suggests- chatbots has **potential to support dental education**
- Chatbots- **more accurate**, less reliable
- Concerns - limited knowledge, **hallucinations**, confidentiality, **mitigated** by training chatbots with relevant, up-to-date data.

CONCLUSION

- **Valuable tool**, complements expertise of experienced educators.
- Newer chatbots versions provide **highly accurate and complete answers**.
- Integrating chatbots into dental education, **collaborative best practices and ethics**.

RECOMMENDATIONS

On Community level

- Multilingual support
- Public-private partnership
- User-friendly designs
- Interdisciplinary Collaboration

On Individual level

- Self directed learning
- Question-answering
- Augment the learning process
- Learning partner



NO. OF DOMAINS IDENTIFIED = 6

Effectiveness of chatbots

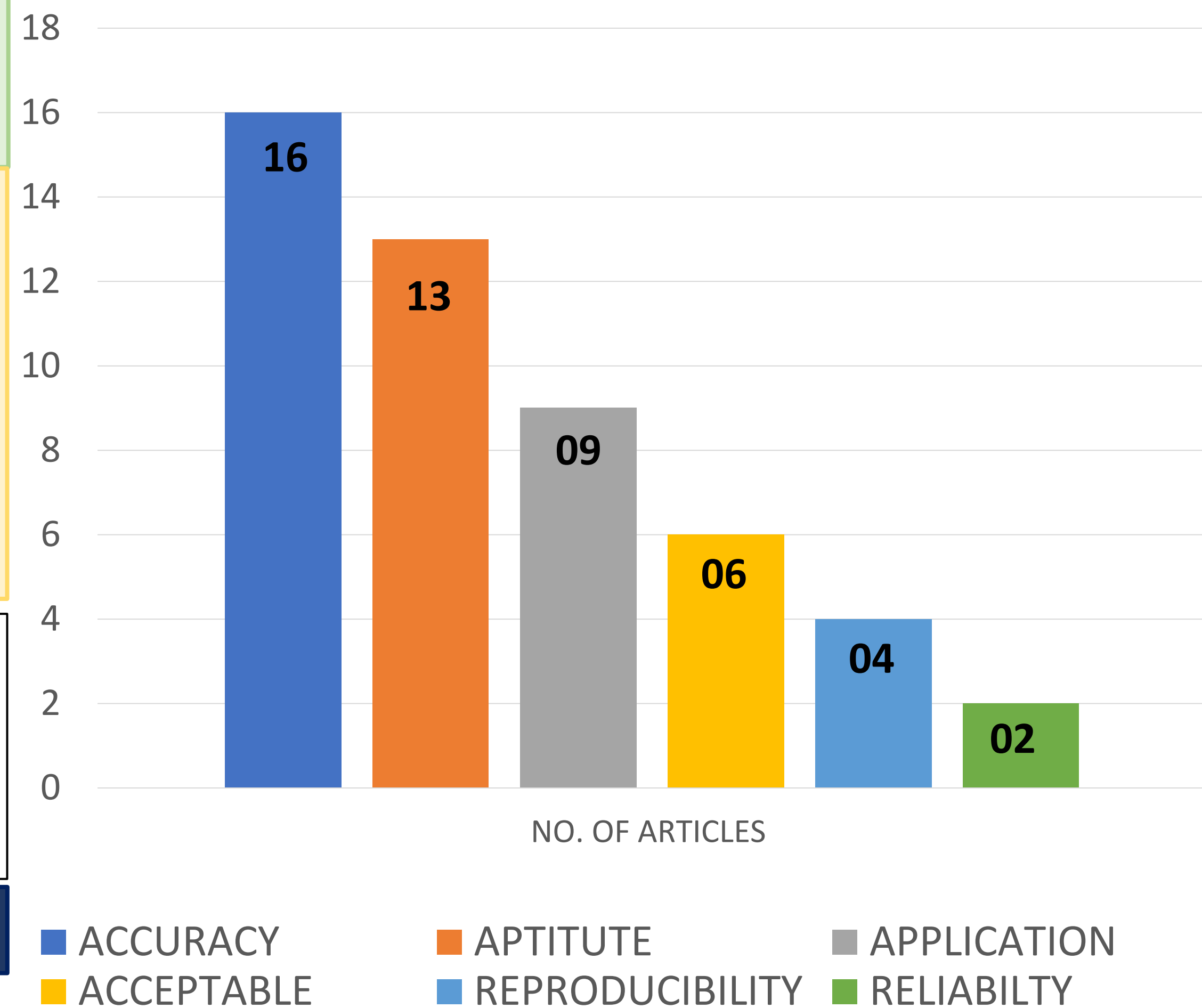


Fig. 2: No. of articles and domains

STUDIES INCLUDED FROM INDIA N=2

MAXIMUM NO. OF STUDIES - USA (6)

Fig. 1: No. of articles per year

