

# Komparasi Desain Makro Body Implan Gigi Tapered Dibandingkan Cylindrical Terhadap Primary Stability: Suatu Systematic Review = Comparison of Macro Design Tapered Dental Implants Compared to Cylindrical Towards Primary Stability: A Systematic Review

Addys Rino Hariar, author

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## Abstrak

Latar Belakang Implan gigi adalah salah satu pilihan perawatan yang umum dalam perawatan pasien yang mengalami kehilangan gigi. Kestabilan dari implan gigi menjadi tolok ukur keberhasilan perawatan. Tujuan dari systematic review ini adalah untuk membandingkan dua bentuk implan gigi yang banyak digunakan yaitu tapered dan cylindrical. Material Dan Metode Berdasarkan metode Preferred Reporting Items for Systematic Review and Meta Analysis (PRISMA), artikel-artikel Randomized Control Trial (RCT) dicari menggunakan database elektronik meliputi PubMed, Scopus, dan Cochrane. Hasil Sebanyak 8868 artikel ditemukan berdasarkan pencarian dari database elektronik, dan sebanyak 14 artikel penelitian dilibatkan dalam systematic review ini. Secara umum, implan gigi dengan bentuk tapered memiliki nilai insertion torque yang lebih tinggi. Namun bentuk cylindrical tercatat lebih tidak terpengaruh terhadap defek pada tulang. Kesimpulan Terdapat beberapa bukti bahwa implan gigi dengan bentuk tapered memiliki primary stability yang lebih baik dibanding bentuk cylindrical. Namun dibutuhkan penelitian lebih lanjut mengenai kestabilan implan gigi pada beberapa skenario klinis seperti penempatan pada tulang pasca augmentasi.

.....Background Dental implants are one of the most common treatment options in the treatment of missing tooth. The stability of dental implants is a benchmark for successful treatment. The purpose of this systematic review is to compare two shapes of dental implants that are widely used, namely tapered and cylindrical. Materials And Methods Based on the Preferred Reporting Items for Systematic Review and Meta Analysis (PRISMA) method, Randomized Control Trial (RCT) articles were searched using electronic databases including PubMed, Scopus, and Cochrane. Results A total of 8868 articles were found based on searches from electronic databases, and 14 research articles were included in this systematic review. In general, tapered dental implants have a higher insertion torque value. However cylindrical dental implants were noted to be less affected by bone defects. Conclusion There is some evidence that tapered form implants have better primary stability than cylindrical forms. However, more research is needed on the stability of dental implants in several clinical scenarios such as placement in bone after augmentation.