

Analisis Bibliometrik Terapi Fotonik sebagai Perawatan Periodontitis dan Periimplantitis = Bibliometric Analysis on Photonic Therapy as Treatment for Periodontitis and Periimplantitis

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Abstrak

Latar Belakang: Terapi fotonik memanfaatkan cahaya untuk mengembalikan kondisi normal jaringan. Berbagai percobaan klinis untuk menguji efektivitas terapi fotonik telah dilakukan pada perawatan periodontitis maupun periimplantitis, tetapi penelitian dengan analisis kuantitatif masih sangat terbatas. Global Burden of Disease Study 2017 melaporkan prevalensi periodontitis berat mencapai 796 juta kasus pada semua umur, sedangkan prevalensi periimplantitis sebesar 45% selama periode evaluasi perawatan lebih dari sembilan tahun. Analisis bibliometrik dapat dilakukan berdasarkan kata kunci; karakteristik publikasi menurut tahun, negara, institusi, penulis, bentuk/macam publikasi; dan karakteristik jurnalnya. Tujuan: Mendapatkan data kuantitatif mengenai terapi fotonik sebagai perawatan periodontitis dan periimplantitis dalam periode 20 tahun terakhir. Metode: Penelitian dilakukan berbasis data elektronik Scopus mulai 1 Maret 2003 hingga 31 Agustus 2023. Data disaring menurut kriteria inklusi serta eksklusi. Publikasi diunduh dalam format CSV kemudian disaring dengan perangkat lunak OpenRefine. Analisis dan visualisasi data menggunakan perangkat lunak Scopus, TableauPublic, VosViewer dan Microsoft Excel. Hasil: Diperoleh 672 publikasi periodontitis, 222 publikasi periimplantitis, serta 836 publikasi periodontitis dan/atau periimplantitis yang dihubungkan dengan terapi fotonik. Tren tahunan publikasi tentang terapi fotonik meningkat dalam dekade terakhir, dihubungkan dengan periodontitis 83,93%; periimplantitis 92,34%; dan periodontitis dan/atau periimplantitis 86,24%. Publikasi yang memiliki kontribusi terbanyak berhubungan dengan kata kunci “humans” dan “periimplantitis”; negara Brazil; institusi King Saud University, penulis Garcia, V.G. dan Theodoro, L.H; berbentuk artikel; dipublikasikan dalam jurnal Photodiagnosis and Photodynamic Therapy. Kesimpulan: Didapatkan pemetaan publikasi dan diskusi mengenai terapi fotonik sebagai perawatan periodontitis dan periimplantitis dari analisis bibliometrik dalam periode 20 tahun terakhir.

.....Background: Photonic therapy uses light to restore normal tissue condition. Various studies have been carried out to determine the effectiveness of photonic therapy as treatment for periodontitis and periimplantitis, but there are very limited quantitative analyses that have been done in that area. Global Burden of Disease Study 2017 reported that the prevalence for severe periodontitis in all age groups reached 796 million cases, while the prevalence for periimplantitis is 45% with a follow-up period up to nine years. Bibliometric analyses can be done according to keywords; publication characteristics such as year, country, institution, writer, type of publication; and journal characteristics. Objective: To conduct quantitative research regarding photonic therapy as treatment for periodontitis and periimplantitis in the last 20 years. Methods: Research was done using Scopus-based bibliographic data from March 1st 2003 until August 31st 2023. Data was filtered according to the inclusion and exclusion criteria. Filtered publication data was downloaded in CSV format and screened using the OpenRefine software. Analysis and visualization of the final data were conducted using softwares which were Scopus, TableauPublic, VosViewer, and Microsoft Excel. Results: There were 672 periodontitis publications, 222 periimplantitis publications, 836 periodontitis

and/or periimplantitis publications related to photonic therapy. There is an uptrend on publications regarding photonic therapy in the last decade, 83.93% periodontitis-associated; 92.34% periimplantitis-associated; and 86.24% periodontitis and/or periimplantitis-associated. Publications with the most contribution was associated with keywords that were “humans” and “periimplantitis”; country of Brazil; institution of King Saud University; authors Garcia, V.G. and Theodoro, L.H; in the form of articles, and published in the journal Photodiagnosis and Photodynamic Therapy. Conclusion: The bibliometric analysis mapped and discussed publications in photonic therapy as treatment for periodontitis and periimplantitis in the last 20 years.