

Kadar Sitokin Interleukin-6, Angiotensin-Converting Enzyme 2 dan Immunoglobulin G pada Pasien Gingivitis Dan Periodontitis Setelah Vaksinasi Covid-19 = Level of Cytokines Interleukin-6, Angiotensin-Converting Enzyme 2 and Immunoglobulin Gin Gingivitis and Periodontitis Patients After Covid-19 Vaccination

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Abstrak

Pendahuluan: Hubungan antara penyakit periodontal dan COVID-19 sudah banyak diteliti mengenai kemungkinan pengaruh buruknya terhadap kebersihan mulut dan dampaknya terhadap risiko infeksi COVID-19, serta tingkat keparahannya. Vaksinasi COVID-19 bekerja dengan cara mengaktifkan sistem kekebalan tubuh untuk mengidentifikasi dan melindungi dari SARS-CoV-2. Penelitian lebih lanjut diperlukan untuk memahami lebih dalam dampak vaksinasi COVID-19 terhadap kesehatan periodontal, terutama pada individu dengan penyakit periodontal. **Tujuan:** Memperoleh perbedaan ekspresi sitokin Interleukin-6, ACE2, dan IgG antara periodontal sehat, gingivitis dan periodontitis kurang dan lebih dari 6 bulan pasca vaksinasi COVID-19. **Metode:** Subjek periodontal sehat, gingivitis dan periodontitis terbagi menjadi tiga kelompok penelitian. Pemeriksaan meliputi pengambilan cairan sulkus gingiva. Pemeriksaan laboratorium untuk Interleukin-6, ACE2 dan IgG diukur dengan menggunakan metode ELISA. **Hasil:** Tidak terdapat perbedaan ekspresi sitokin Interleukin-6, ACE2, dan IgG efek vaksinasi COVID-19 antara periodontal sehat, gingivitis dan periodontitis kurang dan lebih dari enam bulan pasca vaksinasi COVID-19. **Kesimpulan:** Tidak ditemukan buktiadanya kadar mediator Interleukin-6, ACE2, dan IgG tidak ditemukan bukti adanya perubahan yang jelas pada periodontal sehat, gingivitis atau periodontitis, baik yang divaksinasi kurang dari 6 bulan ataupun lebih dari 6 bulan setelah menerima vaksin COVID-19

.....**Introduction :** The relationship between periodontal disease and COVID-19 has been widely studied regarding the possible influence of poor oral hygiene and its impact on the risk of COVID-19 infection and its severity. COVID-19 vaccination works by activating the immune system to identify and protect against SARS-CoV-2. Further research is needed to better understand the impact of COVID-19 vaccination on periodontal health, especially in individuals with periodontal disease. **Objective:** To analyze the differences in IL-6, ACE2, and IgG cytokine expression between patients with periodontal health, gingivitis and periodontitis less and more than 6 months after COVID-19 vaccination.. **Methods:** Periodontal health, gingivitis and periodontitis subjects were divided into 2 study groups. The examination included gingival sulcus fluid collection. Laboratory examinations for IL-6, ACE2 and IgG were measured using the ELISA method. **Result:** There is no difference in the expression of cytokines IL-6, ACE2, and IgG after COVID-19 vaccination between patients with periodontal health, gingivitis and periodontitis less and more than 6 months after COVID-19 vaccination. **Conclusion:** This study showed that there was no clear evidence of changes in the levels of IL-6, ACE2, and IgG mediators in patients with periodontal health, gingivitis or periodontitis, whether vaccinated less than 6 months or more than 6 months after receiving the COVID-19 vaccine.