

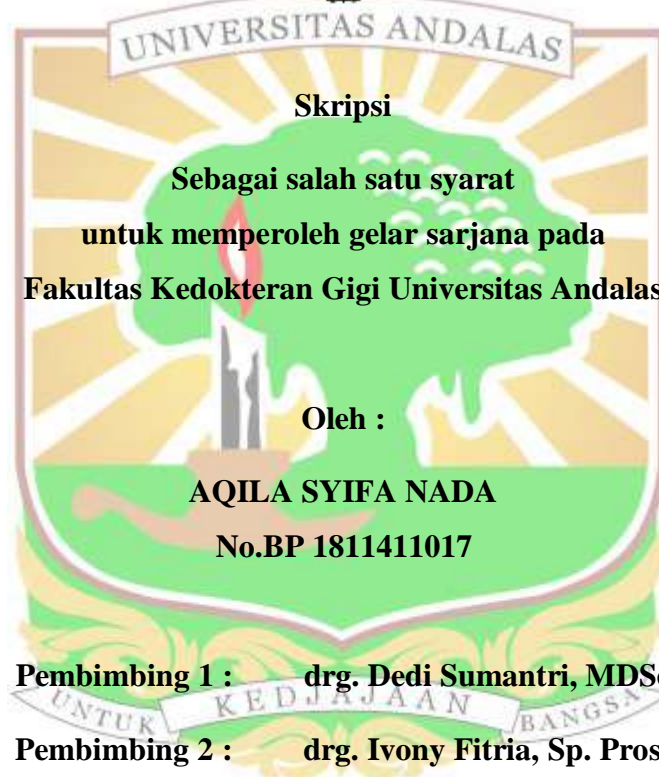
SKRIPSI

**PENGARUH OBAT KUMUR *POVIDONE IODINE* DAN
CHLORHEXIDINE GLUCONATE TERHADAP
COVID -19**



2022

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FAKULTAS KEDOKTERAN GIGI

UNIVERSITAS ANDALAS

PADANG

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PENGARUH OBAT KUMUR *POVIDONE IODINE* DAN *CHLORHEXIDINE GLUCONATE* TERHADAP COVID-19

Aqila Syifa Nada

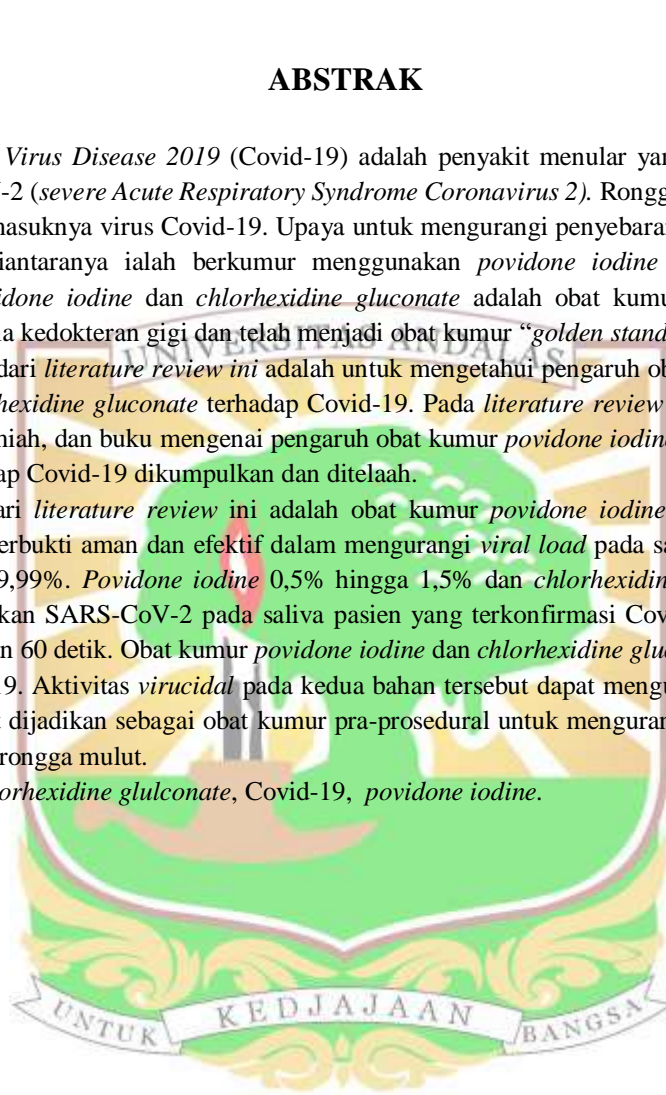
ABSTRAK

Corona Virus Disease 2019 (Covid-19) adalah penyakit menular yang disebabkan oleh virus SARS-CoV-2 (*severe Acute Respiratory Syndrome Coronavirus 2*). Rongga mulut merupakan salah satu jalur masuknya virus Covid-19. Upaya untuk mengurangi penyebaran virus Covid-19 di rongga mulut diantaranya ialah berkumur menggunakan *povidone iodine* dan *chlorhexidine gluconate*. *Povidone iodine* dan *chlorhexidine gluconate* adalah obat kumur yang telah lama digunakan didunia kedokteran gigi dan telah menjadi obat kumur “*golden standar*” di dunia.

Tujuan dari *literature review* ini adalah untuk mengetahui pengaruh obat kumur *povidone iodine* dan *chlorhexidine gluconate* terhadap Covid-19. Pada *literature review* ini beberapa jurnal ilmiah, artikel ilmiah, dan buku mengenai pengaruh obat kumur *povidone iodine* dan *chlorhexidine gluconate* terhadap Covid-19 dikumpulkan dan ditelaah.

Hasil dari *literature review* ini adalah obat kumur *povidone iodine* dan *chlorhexidine gluconate* telah terbukti aman dan efektif dalam mengurangi *viral load* pada saliva pasien SARS-CoV-2 hingga 99,99%. *Povidone iodine* 0,5% hingga 1,5% dan *chlorhexidine gluconate* 0,12% dapat menonaktifkan SARS-CoV-2 pada saliva pasien yang terkonfirmasi Covid-19 dalam waktu kontak 15, 30, dan 60 detik. Obat kumur *povidone iodine* dan *chlorhexidine gluconate* berpengaruh terhadap Covid-19. Aktivitas *virucidal* pada kedua bahan tersebut dapat mengurangi virus SARS-CoV-2 dan dapat dijadikan sebagai obat kumur pra-prosedural untuk mengurangi risiko penularan SARS-CoV-2 di rongga mulut.

Kata kunci : *chlorhexidine gluconate*, Covid-19, *povidone iodine*.



THE EFFECT OF POVIDONE IODINE AND CHLORHEXIDINE GLUCONATE MOUTHWASH ON COVID-19

Aqila Syifa Nada

ABSTRACT

Corona Virus Disease 2019 (Covid-19) is an infectious disease caused by the SARS-CoV-2 virus (severe Acute Respiratory Syndrome Coronavirus 2). The oral cavity is one of the entrances to the Covid-19 virus. Efforts to reduce the spread of the Covid-19 virus in the oral cavity include gargling using povidone-iodine and chlorhexidine gluconate. Povidone iodine and chlorhexidine gluconate are mouthwashes that have long been used in dentistry and have become the "golden standard" mouthwash in the world.

The objective of this literature review was to determine the effect of povidone-iodine and chlorhexidine gluconate mouthwash on Covid-19. In this literature review, several scientific journals, scientific articles, and books on the effect of povidone-iodine and chlorhexidine gluconate mouthwash on Covid-19 were collected and studied.

The result of this literature review was that povidone-iodine mouthwash and chlorhexidine gluconate were safe and effective in reducing viral load in the saliva of SARS-CoV-2 patients by up to 99.99%. Povidone iodine 0.5% to 1.5% and chlorhexidine gluconate 0.12% could inactivate SARS-CoV-2 in the saliva of patients with confirmed Covid-19 in contact times of 15, 30, and 60 seconds. Povidone-iodine mouthwash and chlorhexidine gluconate affect Covid-19. The virucidal activity of both ingredients can reduce the SARS-CoV-2 virus and can be used as a pre-procedural mouthwash to reduce the risk of SARS-CoV2 transmission in the oral cavity.

Keywords: Chlorhexidine gluconate, Covid-19, povidone-iodine.

