

# Efek ekstrak biji Nigella sativa (jintan hitam) terhadap viabilitas Candida glabrata = The effect of Nigella sativa seeds extract to the viability of Candida glabrata

Farah Diba, author

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## Abstrak

Candida glabrata adalah spesies kedua yang terisolasi pada kandidiasis oral setelah Candida albicans. Nigella sativa (jintan hitam) dilaporkan memiliki efek antijamur. Tujuan penelitian ini adalah menganalisis efek antijamur ekstrak biji Nigella sativa terhadap viabilitas Candida glabrata. Candida glabrata ditambahkan ke dalam 96 microwell plate yang telah dilapisi saliva buatan kemudian dipajangkan dengan ekstrak biji Nigella sativa 6.25%-50% dan amphotericin B 250 mg/ml. Dilakukan pengujian viabilitas Candida glabrata dengan uji MTT. Viabilitas Candida glabrata lebih rendah setelah pamajanan dengan ekstrak biji Nigella sativa dibandingkan kontrol negatif. Viabilitas Candida glabrata semakin menurun seiring dengan peningkatan konsentrasi ekstrak biji Nigella sativa.

.....Candida glabrata is the second most frequently isolated species from Oral Candidiasis, after Candida albicans. Nigella sativa (black cumin) is reported has antifungal effect. This research was to analyze Nigella sativa antifungal effect Seeds' extract to the Candida glabrata viability. Candida glabrata was added on 96-microwell plate that had been coated with artificial saliva and exposed to 6.25-50% Nigella sativa seeds' extract and amphotericin B 250 mg/ml. Candida glabrata viability was determined by MTT assay. Candida glabrata viability was lower after exposed by Nigella sativa seeds' extract than negative control. Candida glabrata viability was decreased with increasing Nigella sativa seeds' extract concentrations.