

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

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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 dipajankan 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 paparan 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.