

Efek ekstrak biji *Nigella sativa* (jintan hitam) terhadap viabilitas *Candida albicans* = The effect of extract of *Nigella sativa* seed against viability of *Candida albicans*

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Abstrak

Latar belakang : *Nigella sativa* dilaporkan memiliki efek antijamur terhadap *Candida albicans*. *Candida albicans* adalah jamur yang menyebabkan kandidiasis oral.

Tujuan : Menganalisis efektivitas antijamur ekstrak biji *Nigella sativa* terhadap viabilitas *Candida albicans*.

Metode : *Candida albicans* ditambahkan pada 96-microwell plate yang telah dilapisi saliva buatan, kemudian dipaparkan ekstrak biji *Nigella sativa* dengan konsentrasi 6.25%-50% dan amphotericin B 1 μ l (250mg/ml) sebagai kontrol positif. Viabilitas *Candida albicans* dihitung dengan uji MTT.

Hasil : Nilai optical density *Candida albicans* lebih rendah setelah pemberian ekstrak biji *Nigella sativa* dibandingkan dengan kelompok tanpa perlakuan.

Kesimpulan : Viabilitas *Candida albicans* setelah dipaparkan ekstrak biji *Nigella sativa* turun dibandingkan dengan kelompok tanpa perlakuan dan viabilitas *Candida albicans* menurun seiring dengan peningkatan konsentrasi ekstrak biji *Nigella sativa*.

.....Back ground : *Nigella sativa* has antifungal effect against *Candida albicans*. *Candida albicans* is a fungi that causes oral candidiasis.

Objective : To analyze the antifungal effectiveness of the extract of *Nigella sativa* seed on the viability of *Candida albicans*.

Methods : *Candida albicans* was added on 96-well plate that had lined been by artificial saliva and exposed by the extract of *Nigella sativa* seed 6.25%-50% and amphotericin B 1 μ l (250mg/ μ l) was used as positive control. The viability of *Candida albicans* was determined by MTT assay.

Result : The optical density value of *Candida albicans* after exposed by the extract of *Nigella sativa* seed was lower than the negative control.

Conclusion : The viability of *Candida albicans* after exposed by the extract of *Nigella sativa* seed was decreased than the negative control and viability of *Candida albicans* was decreased as increasing concentrations of the extract of *Nigella sativa* seed.