

Pengaruh suplementasi vitamin C dan E terhadap kadar C- reactive protein (CRP) serum pada penderita luka bakar sedang berat = The Effect of vitamin C and E supplementations on serum C- reactive protein level in moderate-severe burn patients.

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Abstrak

ABSTRACT

Objective : To study the effect of vitamin C 1000 mg i.v and E 400 mg oral supplementation on serum c-reactive protein level as parameter of inflammation in burn patients.

Methods: This study was a one group pre post test that gave i.v 1000 mg vitamin C and oral 400 mg vitamin E supplementations to thirteen moderate-severe burn patients, with percentage of burn less than 60%, in burn unit Cipto Mangunkusumo Hospital. Data were collected using questionnaire, medical record, anthropometric measurement, dietary assessment using four consecutive days food record. Laboratory test for serum vitamin C, E and serum c-reactive protein levels- were evaluated before and after supplementations. Differences in mean values were assessed by Wilcoxon for the not normal distribution.

Results: Among thirteen subjects, Seven (53.80%) Subjects were female, median of age 35 (18-55) years. Body mass index in most subjects (69.2%) were categorized as normal. The median percentages of burn injury 22 (5~57)%, and the frequency of severe burn was 61.50%, while the most cause of burn was flame (76.9%). Level of vitamin C after treatment was increased, but not significant. Level of vitamin E after treatment was significantly increased ($p=0,016$). Level of CRP after supplementation significantly increased ($p=0.04$).

Conclusion: There was significantly reduced of level serum CRP after four days vitamin C1000 mg i.v dan E 400 mg oral supplementations.