



A COMPARATIVE STUDY TO EVALUATE THE EFFECT OF LYOPHILIZED AMNIOTIC MEMBRANE AND GENTAMYCIN OINTMENT ON RADIOTHERAPY SKIN REACTION HEALING IN M DJAMIL HOSPITAL PADANG

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SUMMARY

Introduction: Radiotherapy for tumour causing damage to the DNA of cells thereby inhibiting the ability of cells to divide and proliferate. Unfortunately, the most common effects is an acute reactions of the surrounding skin, from the mild to severe stages of moist desquamation skin reaction. Many regiments have been conducted for the sistemic and local treatment. Amniotic membrane can be used for local treatment because it's ability to accelerate woung healing such as increasing the formation of collagen , epitelization, and neovascularization.

Method: This study was an experimental study in cancer patients who experience radiation-induced skin reaction. Patients are grouped into 2 groups: the first group received lyophilized amniotic therapy and the second group get gentamicin ointment. The instrument that is used to measure it are RISRAS which is developed by Noble-Adams in 1999. The measurements were performed three times: before treatment, after 1 week of treatment and after 2 weeks of carrying. Statistical analysis was performed using the T-Test (unpaired) to the data with numerical scale, while the categorical scale data was tested by Fisher's test. The data are processed in computerized program and analytical statistic results are significant if $p < 0,05$.

Result : From the 16 samples of research showed that the lyophilized amniotic reducing RISRAS faster than using gentamicin ointment. It is statistically has significant difference in amniotic group compared with the gentamicin ointment after 1 week of treatment ($p = 0,007$)

Conclusion: Lyophilized amniotis provide a faster wound healing than gentamicin ointment based on RISRAS.