

COMPARISON OF THE QUALITY RESULT OF STAINING SUDAN BLACK B WITH USING METHANOL AND FORMALIN FIXATION ON BONE MARROW LEUKEMIA SUFFERS

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ABSTRACT

The staining of sudan black B is a cytochemical staining that is usually fixated with formalin and has never been reported using methanol fixation. Until now in laboratory the slide of bone marrow is still using formalin fixation for staining sudan Black B while the methanol fixation has never been reported so far. The purpose of research is to comparing the quality result of staining sudan black B with using methanol and formalin fixation on bone marrow for leukemia suffers. The type of research is analytic. Samples taken by *accidental sampling* that is done on July 23rd until 29th got 2 samples of leukemia patients in RSUP Kariadi Semarang, then the sample was prepared as a slide spread of 16 slides, 8 slides fixated with formalin and 8 other slides fixated using methanol. The result showed the quality of the staining of sudan black B fixated with formalin 8 slides is of good quality, while using methanol fixation obtained 8 slides with bad quality. This result shows the quality of the staining of sudan black B fixated with formalin is better than fixated by methanol. The statistical test in *chi square* test obtained p value = 0.000, because the value of p < 0.05, so it can be concluded that there is a significant difference between the quality comparison of staining results of sudan black B on methanol and formalin fixation.

Keywords : Formalin fixation, Methanol Fixation, Quality of Staining Result of Sudan Black B.