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IVER INJURY IN MICE INFECTED BY SCHISTOSOMA MANSONI AND TREATED WITH PHARMACOLOGICAI GENTS
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3STRACT
The chronic phase of schistosomiasis is marked by the formation of granulomas to contain Schistosom ansoni eggs, a process aggravated by frequent reinfections that cause unregulated proteolysis and ompromise the extracellular matrix. Because praziquantel does not directly affect granulomatous eactions, is not effective at all stages of the parasite cycle, and does not prevent reinfection, there is a rigent need for more effective treatment alternatives. Swiss mice were infected with 75 cercariae ubcutaneously and after 45 days, treated for 8 and 15 days with praziquantel, farmx and the ombination of treatments. Histological sections of liver were obtained and stained with picrosirius red and masson's trichrome. The analysis of extracellular matrix remodeling was performed using ImageJ (oftware, Fiji version (Versatile tool). Analyses were performed in GraphPad Prism v. 8.2.1, with ormality testing to assess data distribution. p-values < 0.05 were considered significant. In the Massor ichrome analysis, a significant difference was observed in which there was a greater area of the xtracellular matrix in the groups treated with praziquantel (p = 0.0079) and association (p = 0.0017) in elation to the positive control group in 8 days of treatments. Regarding the intensity of the marking, here was a significant difference with greater marking in the groups treated with farmx (p=0.0447) and ositive control (p=0.9999) in relation to praziquantel in the group treated for 15 days. Picrosirius nalysis revealed a statistical difference between type 3 collagen in the 8-day positive control comparer to the 15-day positive control (p = 0.0449), presenting a median of 3,846,135 µm (1,496,978 – 9,171,44) and 3,269,607 µm (1,782,035 – 4,131,127) respectively. The group treated with praziquantel howed a significantly higher deposition of type 3 collagen after 15 days 2,774,350 µm (2,067 – 5,106; e 0.062). Regarding the PS analysis for type 1 collagen, only the group treated with praziquantel howed a statistically significant diff
YWORDS
ichistosomiasis; Granuloma; Extracellular Matrix

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