The immunofluorescent detection of Entamoeba histolytica in pus using avidin-biotin system

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The immunofluorescent detection of Entamoeba histolytica in pus using avidin-biotin system

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Abstract

Based on biotin-avidin interaction, labelled proteins were used to develop an immunofluorescence technique to detect amoebae in samples of pus. Using this technique, Entamoeba histolytica has been demonstrated in 18 of 19 pus samples aspirated from amoebic liver abscess. None of the 17 controls samples obtained from pyogenic abscess of non-amoebic origin showed the presence of E. histolytica. The test was specific, sensitive and easy to perform and is recommended for diagnosis of amoebic liver abscess.

Reference

B. M. Gandhi, M. Irshad, T C Chawla, B N Tandon Enzyme linked protein-A: an ELISA for detection of amoebic antibody. Transactions of the Royal Society of Tropical Medicine and Hygiene 81(2):183-5, 1987