

Periodicity of *W. bancrofti* microfilaraemia in Orissa, India

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ABSTRACT The periodicity of microfilaria of the filarial parasite, *W. bancrofti* was studied in 22 human volunteers in 2 filarial endemic village of undivided Puri district of Orissa by using harmonic wave equation. The estimated peak hour of microfilaraemia was around 10 minutes past 12 midnight. The microfilaria counts (Mfc) at the peak time were found to be 12 and 20 in the two villages studied respectively. The nature of the parasite *W. bancrofti*, was found to be nocturnal periodicity in these areas where the mF rate was found to be 8.0 percent and 17.4 percent respectively.