

Bancroftian filariasis transmission parameters after the fifth year of filariasis mass drug administration in Pekalongan City / Tutik Ida Rosanti, Sugeng Juwono Mardihusodo, Wayan Artama

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Abstrak

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This study aimed to measure parasitology parameters (microfilariae rate, microfilariae density), immunology parameter (antigen prevalence), and entomology parameters (infection rate and infective rate) after the fifth year of mass treatment at Pabean Village, Pekalongan City. This study was an observational study with cross-sectional approach that was conducted in July to August 2015 in Pabean Subdistrict, Pekalongan City. The microfilaria rate and microfilariae density were determined by finger blood survey of 313 respondents. Meanwhile, the antigen prevalence was determined by calculating the circulating antigen using the immunochromatographic test (ICT) Wuchereria bancrofti method. Finally, the infective rate and infection rate were both explicitly defined by detecting filarial worm larvae in the mosquitoes of man biting mosquitos collection. The results showed that the mf rate was 0.32% with average microfilariae density of 167/mL blood, the antigen prevalence of the calculation was 0%, the infection rate was 0.06% and the infective rate was 0%. In conclusion, after the fifth year of mass treatment in Pabean Area, Pekalongan City, the area is no longer included into the filariasis endemic areas and the transmission parameters has no potential in causing the filariasis spreading.