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Tropical Medicine and Health

Vol. 35 (2007), No. 3 p.261

Wuchereria bancrofti Filariasis Control in Samoa be (Pacific Programme to Eliminate Lymphatic Filarias

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(Accepted September 11, 2007)

Abstract: Background

Samoa was formerly highly endemic for Wuchereria bancrofti filaria mosquitoes. Previous control efforts including sporadic mass drug a campaigns have reduced the prevalence to low levels but have not s the disease. To effectively plan, model and evaluate the worldwide e Global Programme to Eliminate Lymphatic Filariasis (GPFLF) need epidemiology (including age and sex-specific prevalence and the der (Mf)) and estimates of the number of years of MDA required for elin nationwide MDA campaign carried out in Samoa before the start of to Eliminate Lymphatic Filariasis (PacELF) generated extensive dat *Methodology/Principal Findings*

MDA campaigns were conducted in Samoa with diethylcarbamazir 1995 and DEC plus ivermectin in 1996 to 1997 for all persons age Coverage of the MDA, as assessed from the campaign village regis 62% to 97% depending on the year, and was over 80% in three out based surveys showed that prevalence of Mf declined from 4.3% i 1.1% in 1998 (N=4,054) ($P\chi^2=94.4$, p<0.001). Males had a three prevalence than females, and this difference remained consistent ove Transmission was still occurring over the period as shown by the oc infections in 3 children less than 5 years old out of 5,691 tested (five incidence of 0.53 per thousand children for the period 1993 to 199 statistically significant reduction in the geometric mean number of M cases between 1993 (11.8) and 1998 (6.9) (t=2.61; p<0.01). The with a high density of Mf - over 60 Mf per 60 µl (1000 per ml) - de 4.0% (P $\chi^2=5.6$, p=0.018).

Conclusions/Significance

Five years of sustained MDA with DEC (3 years) and DEC plus iver reduced the prevalence of Mf of *W.bancrofti* in Samoa by 74%. De individuals was also significantly reduced. Males had a three to fivethan women. New infections in children less than five years old still suggesting that transmission was not completely interrupted. These f prepare a sound monitoring and evaluation plan for PacELF.

Key words: <u>Samoa</u>, <u>diethylcarbamazine</u>, <u>Global Programme to Eli</u> <u>Filariasis</u>, <u>mass drug administration</u>, <u>PacELF</u>

[PDF (488K)] [References]

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To cite this article:

Kazuyo Ichimori, Palanitina Tupuimalagi-Toelupe, Vailolo Toeaso Graves: "*Wuchereria bancrofti* Filariasis Control in Samoa before Programme to Eliminate Lymphatic Filariasis)". Tropical Medicine