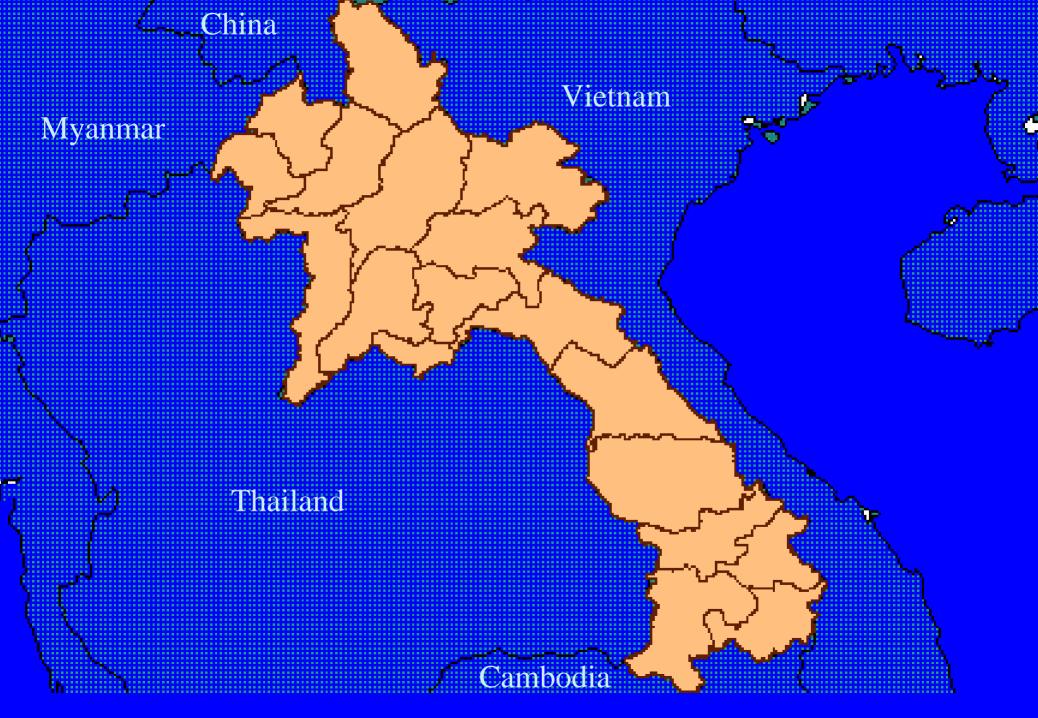
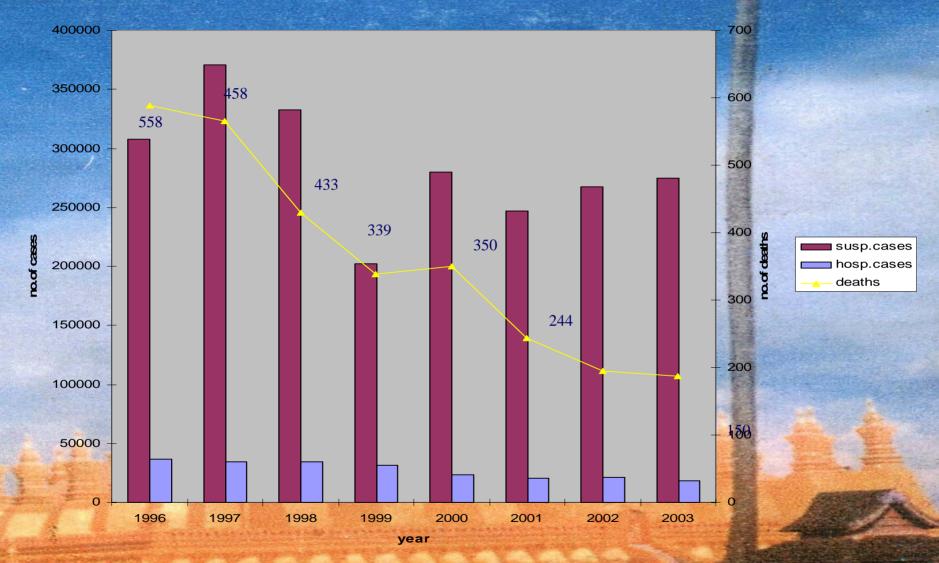
Malaria Control in LAO PDR

By Dr Bouasy Hongvanthong and Dr Rattanaxay Phetsouvanh
Centre of Malariology, Parasitology and
Entomology



O yera Hamanaria Lastuations

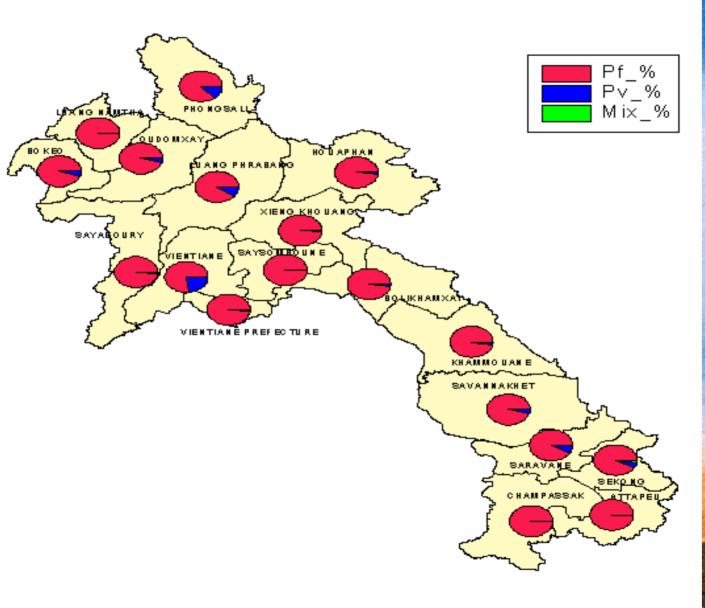


Malaria transmission

- Malaria species:
 - P.falciparum:95%
 - P. vivax: 4%
 - P.malariae: 0.8%
 - P.ovale:0.2%

- Malaria vectors:
 - An. dirus
 - An.minimus
 - An.maculatus
 - An. jeyporiensis

Distribution of Malaria parasites species in Laos





Current drug resistance situation

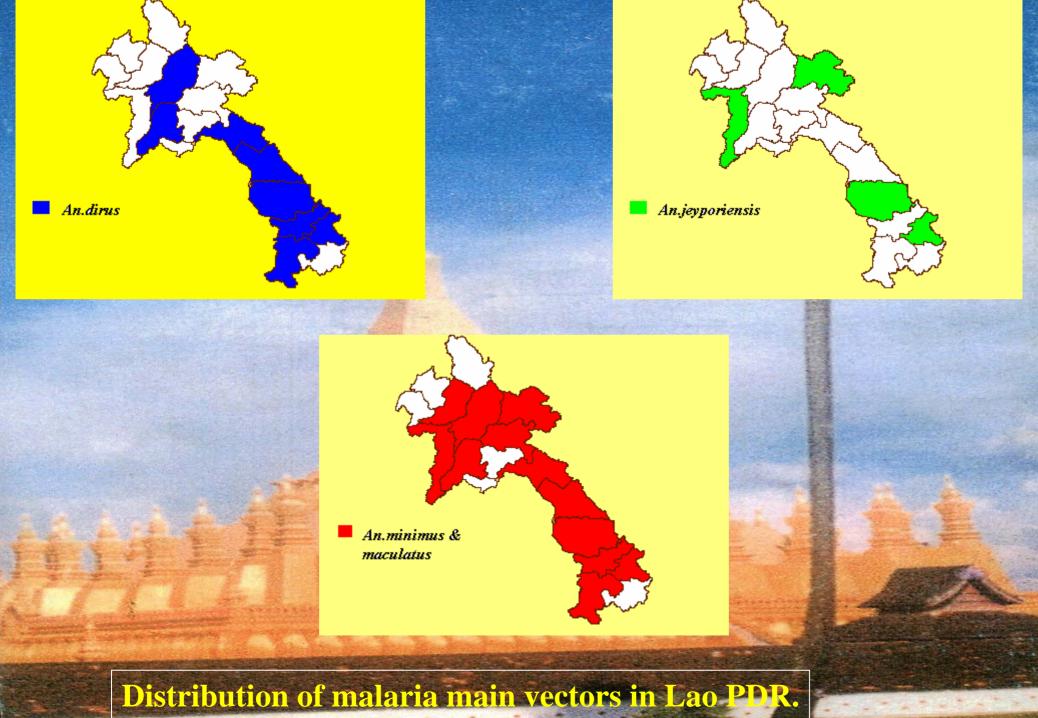
1998-2001:

- 32-53% of failure to CQ (42/14 days) in VP, SK, ATP,
 SVK, LN
- 15-18% of failure to SP (14/42 days) in ATP, SVK
- 17-23% of failure to CQ+SP (14 days) in ATP
- 100% efficacy to mefloquine (14 days) in ATP

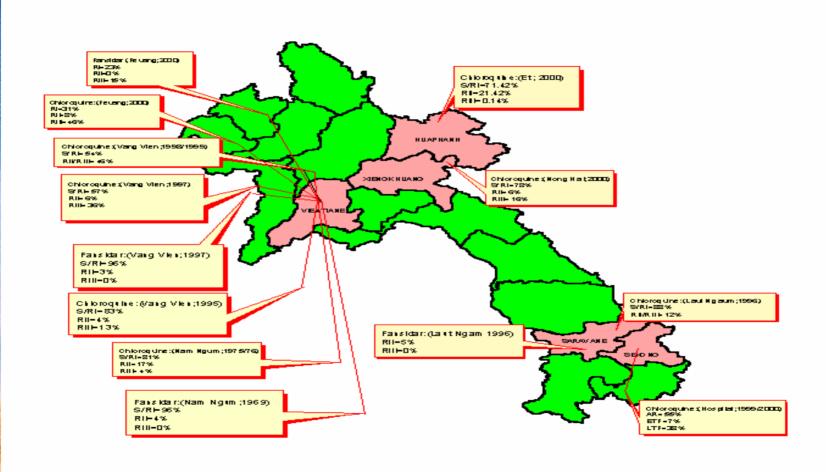
2002-2003:

- 55% of failure to CQ (14 days) in CPS
- 11.1% of failure to SP (14 days) in CPS
- 8% of failure to CQ+SP (42 days) in SVK
- 97% efficacy for Coartem® (42 days) in SVK
- 100% efficacy for A+M (42 days) in SVK

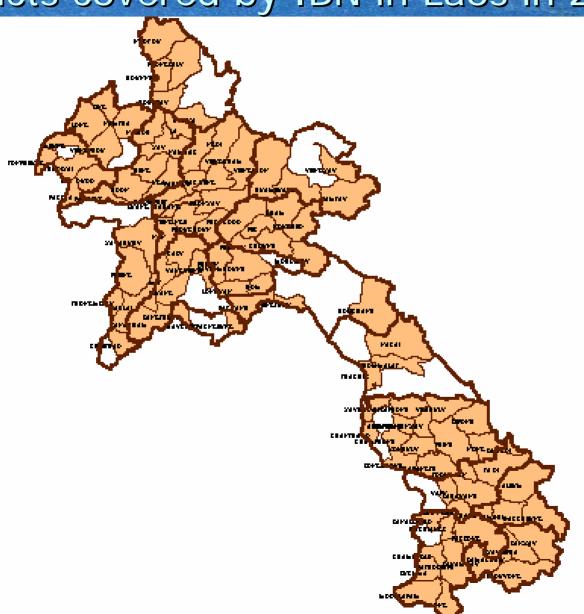
cmpeLaos



Results of studies on drug resistance in selected areas of Laos



Districts covered by IBN in Laos in 2002



Coverage of impregnated bed net from 1999-2001

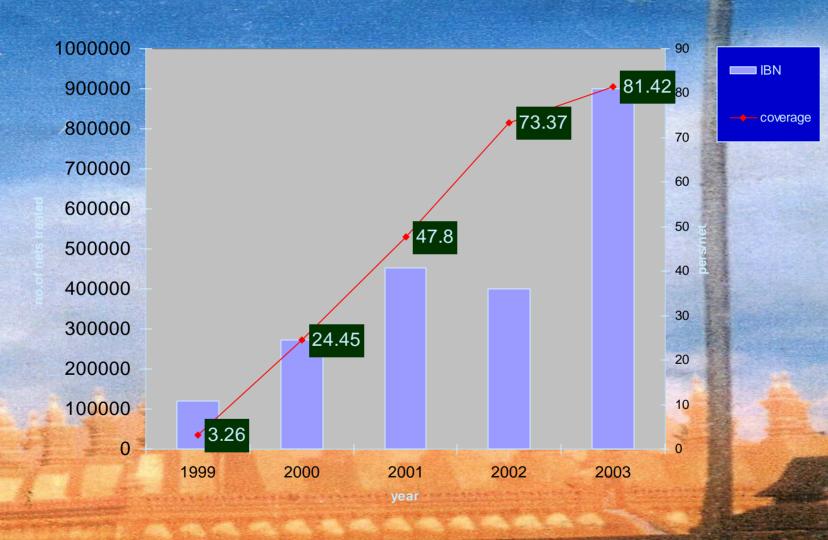


Table. 1 INDICATORS (Malaria Control Programme in Lao PDR) 2000 02020

Indicators	2000	2001	2002	2003	2004	2005	2010	2015	2020
N. of dipped nets	354,097	836,303	902,226	1,010,000	1,110,000	1,250,000	Œ	Œ	Œ
N. of pop. protected by IBN	1,249,452	1,252,776	2,255,565	2,700,000	3,300,000	3,850,000	Œ	Œ	Œ
N. of Malaria hospitalized cases	20,530	18,000	15,000	13,000	11,000	9,000	6,500	4,500	2,500
Slide Positive Rate (%) SPR	16.5	16.00	15.5	14.8	14.00	13.5	12.0	10.5	7.50
Morbidity Rate (/ 1,000)	27.0	25.00	22.5	15.00	13.60	12.84	5.73	3.00	2.31
Mortality Rate (/ 100,000)	6.7	5.60	5.00	4.00	3.00	3.4	2.4	2.0	1.6

Remark: Pop.Growth Rate-= 2.5% / year, Pop. at risk = 75%.

MALARIA VECTOR CONTROL IBN COVERAGE (end of 2003)

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(Insecticide: Deltamethrin 1% SC)
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- PROVINCES: 17 + 01 (Special zone)
- DISTRICTS: 129
- VILLAGES: 6,853
- **POPULATION:** 2,353,797
- TOTAL DIPPED NETS: 399,480
- COVERAGE RATE (Target villages): 68.48 %
- COVERAGE RATE (Target population): 81.42 %
- COVERAGE RATE (Population at risk): 47.8 %?

cmpeLaos 1



- GFATM starts from May 2003 first at smale scale then expand nationwide
- Funds collected from IBN would be used to continue the IBN activities until new assistance arrive.

