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WHO

90% if not killed
↓

Resistance

Long lasting
insecticide net

(3-5 yrs)
despite washing
efficacy intact

- 1mg/mL initial

Entomology Division

Insecticides +

mosquito
nets



2 1/2 ppl → 1 net

NVBDP

criteria



Epidemiology

DRV

- Malaria clinic
- Mal 12

RD T - Rapid

Diagnostic

Test Kit

Poly valent

$\left. \begin{matrix} P_v \\ P_f \end{matrix} \right\}$ monovalent

P_v, P_f Bivalent

RDT Kit -

→ Conserved protein
100 yrs minimum
mutation in
the parasite

Any RDT Kit -
11x conserved

protein;

min mutation &

deviation.

- ELISA

↓

Ab, Ag conc.

deviation.

the other,

fix & give to
company

2) National
Malware Drug
Policy —

—
NE & rest of

country

ASP

Arte

— ~~DRU~~ Drugs &

RDT.

Denise & Tamphos

17
Lumicide

— Research
is continuous
process

National centre

Biotechnology

Research

Reflections:

— NVRBDCP

— 1CNR

D

Larval

development

An. uliginosus

An. stephensi

Aedes aegypti

~~En. form~~

11

Insects

test by



- Test on paper

- Test nets

DA 7 1/2 4m

$P_4 - 2 \text{ sig. } 1^{\text{st}} \text{ or } 1/6 \text{th}$

$P_2 - 1/3^{\text{rd}} \text{ of } RBC$

- delicate,

- double

chromatin

ring very

CGM 11991

SSB-1 - methy.
blue

2 - Coine
yellow
(5-10 ser)

1st use SSB-2
↓ Buffer
water
then

SSB-1

and

2005 - MRC

changed to
NIMR

Slide positive

Rate should

be less than

3.

Radical Tx'

P₂ 3 4 chloro
guine

ACT 0 0 2

11 - 1 0

resistance

Primaquine

15mg X 14 days

pf - multiple
infection

~~HI~~
possible
to RBC

Dengue Why can't
it be
eliminated
1 mosquito $\rightarrow$ 150

- transovarial
- 20 days life cycle

100mt ✓ ✓ ✓

Can propagate

upto 6 gen. (TOT)

→ 30000 sporozoites
+nt

→ 20 sporozoites

Injected in each

1 y...
bite

1 malaveria
mosquito can

affect 1500
pp1

- 5 km flight

range

- But after
blood suck,
~~I~~ rests for
2 days.

But lines
upto \$8

20 days.

infects no

~~8~~ Can transmit
infectⁿ at
8-10 days

of age

can't develop vaccine

— malaria

multi stage

Parasite (liver, blood)
immunopotent
protein at each
stage, not possible

↓
cocktail
vaccination

— Den Hoos

... ..

... NO variable
(all are variable strains)