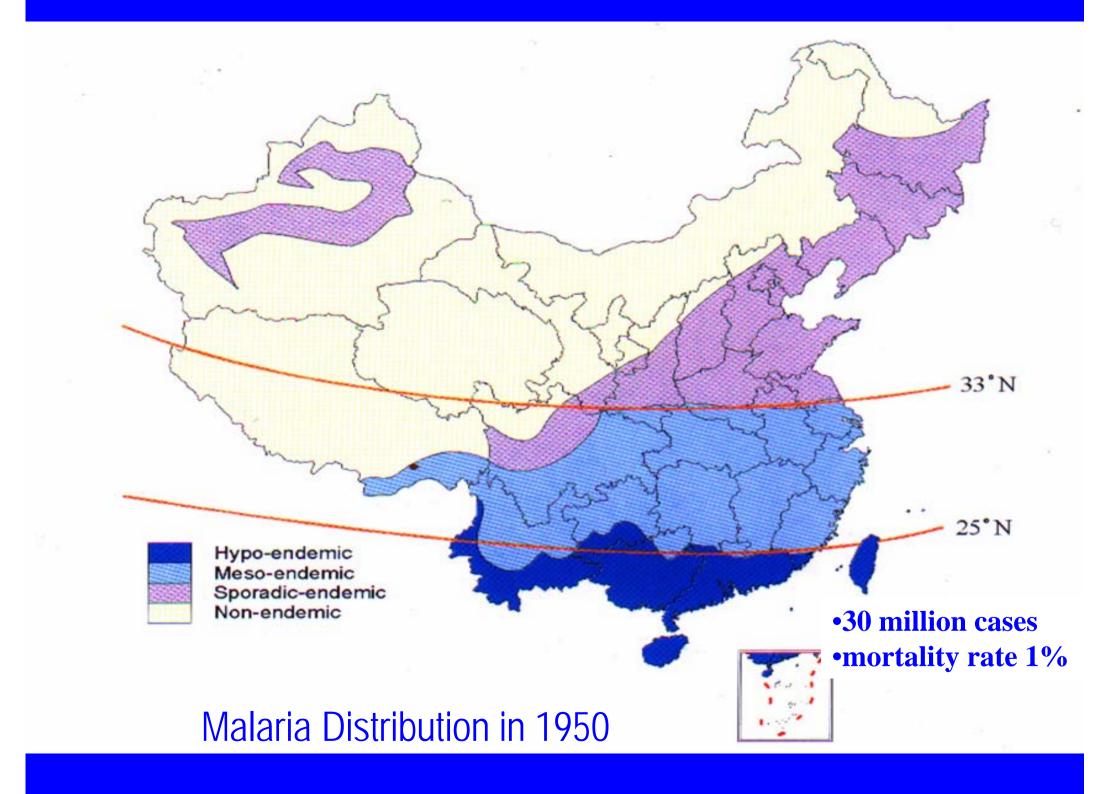
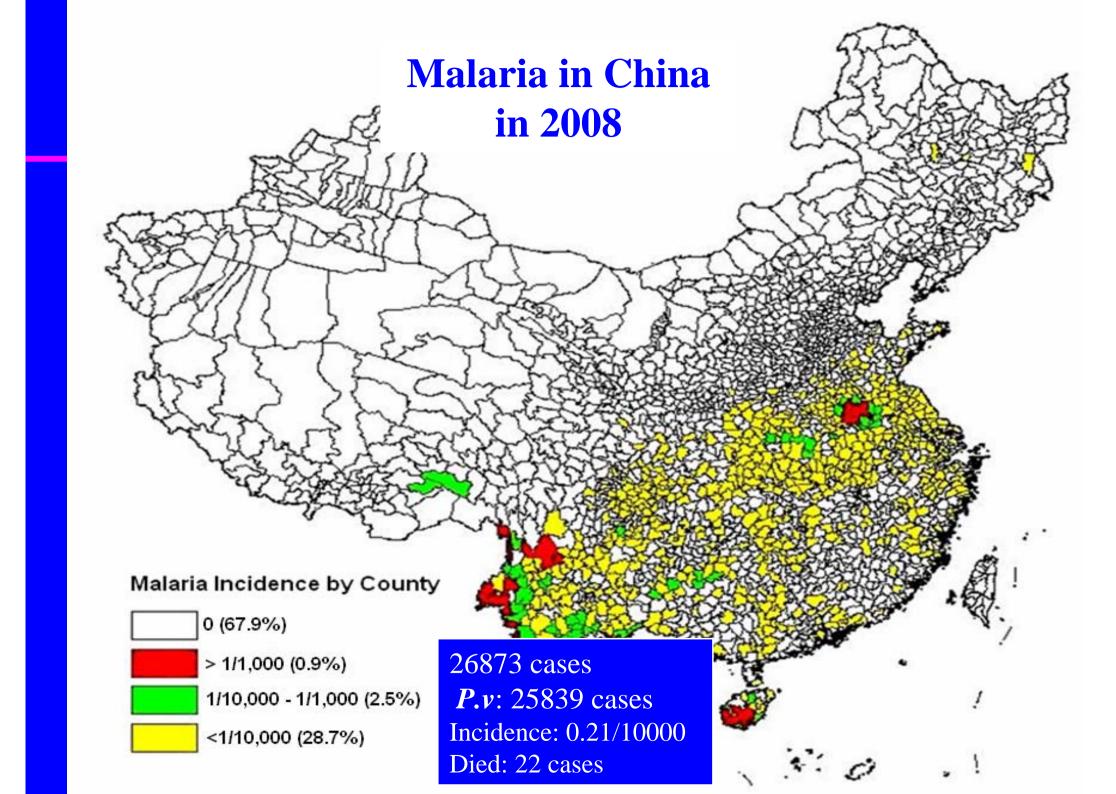
International Malaria Colloquium 2010

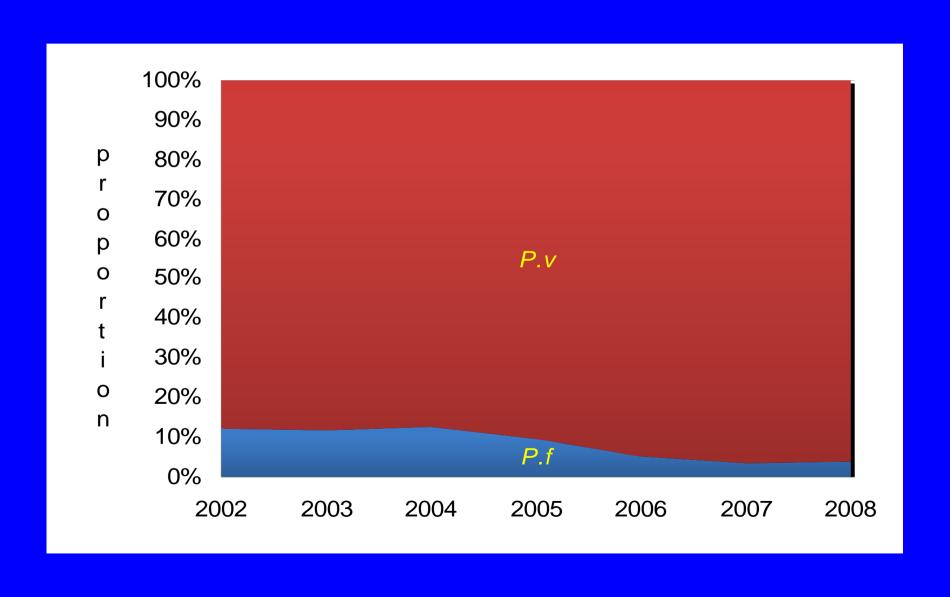
Elimination of *P. vivax* from PR China

Prof. TANG Linhua
National Institute of Parasitic Diseases
China CDC
Dec. 3, 2010 Bangkok, Thailand

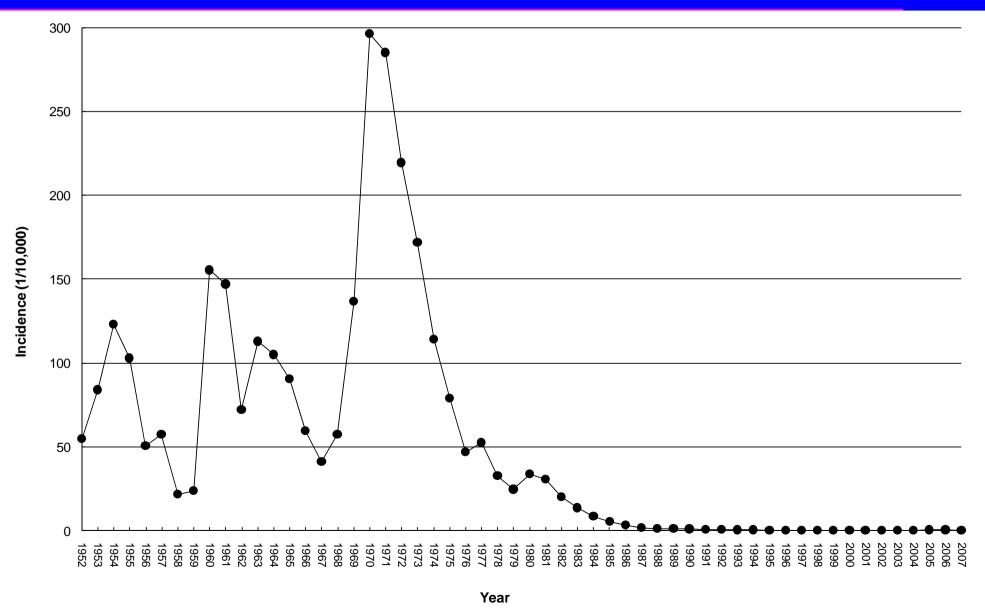




Parasite species proportion from 2002 to 2008 in China



Malaria in China (1952 - 2008)



Malaria control program

- National malaria control program in China since 1955
- Relying on primary health care networks
- Community participation
- Integrated measures
- Development of new antimalarial drugs
- Pilot field study and research.



Integrated antimalarial measures

- ❖ In areas with An. sinensis: emphasis on elimination of infection source and mosquito control, supplemented with reducing mosquito breeding in and around the villages;
- In areas with An. minimus or An. anthropophagus:
 - emphasis on mosquito control and elimination of infection source;

Integrated antimalarial measures

❖ In areas with *An. dirus*:

the main measure is to change the ecological environment for mosquito control, in combination with control of infection source.

Evidence-base malaria control: successful stories

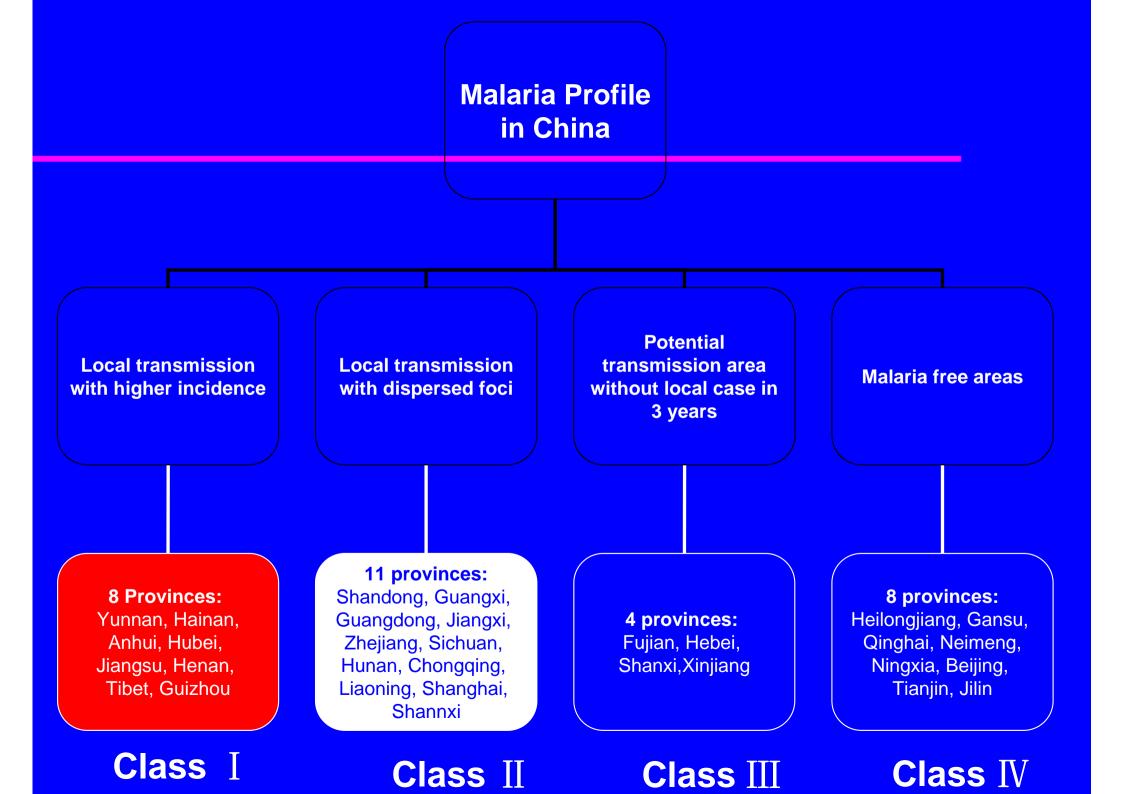
- **◆**In 2008: 96.5% of population (2,787 counties with 1.2billion population) in areas of malaria basic elimination.
- Since 1993, no indigenous *P.f* case occurred in central part of China (5 provinces).
- ◆ Based on studies on vector biology: Anopheles antropophagus, An.sinensis and An.dirus, malaria transmission was controlled effectively in 10 provinces).

Successful stories

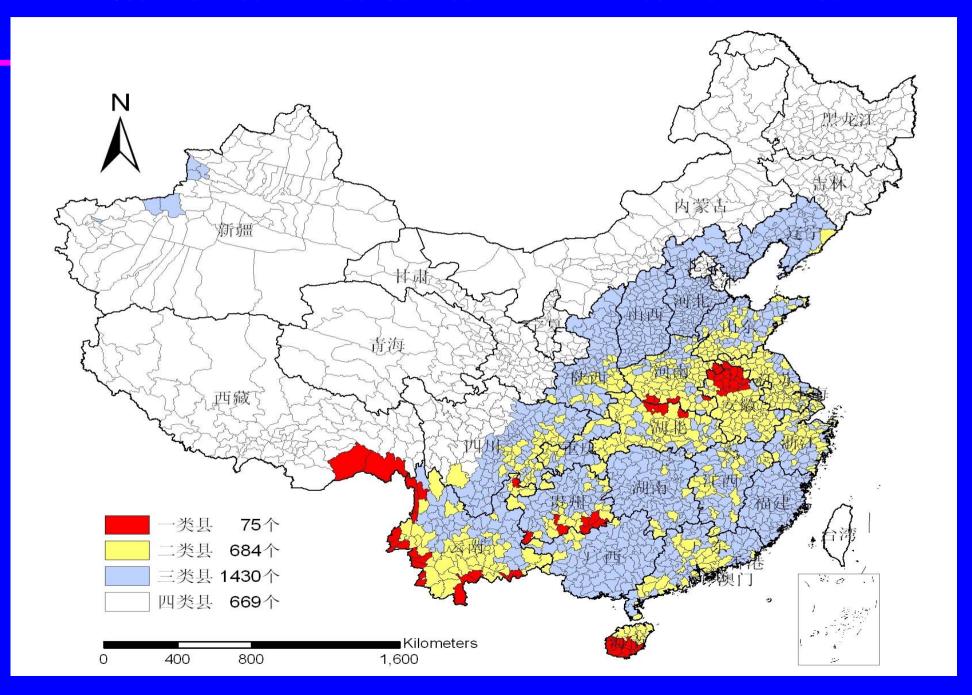
❖ IRS +improve environment to reduce vector breeding place: in Hainan Province, effective control *An. minimus*.

China: Malaria elimination program (Year 2010 - 2020)

- By the year 2015: malaria elimination in the country except Yunnan border.
- **◆**By the year 2020: whole country will reach the criteria of malaria elimination.



National Malaria Elimination Plan

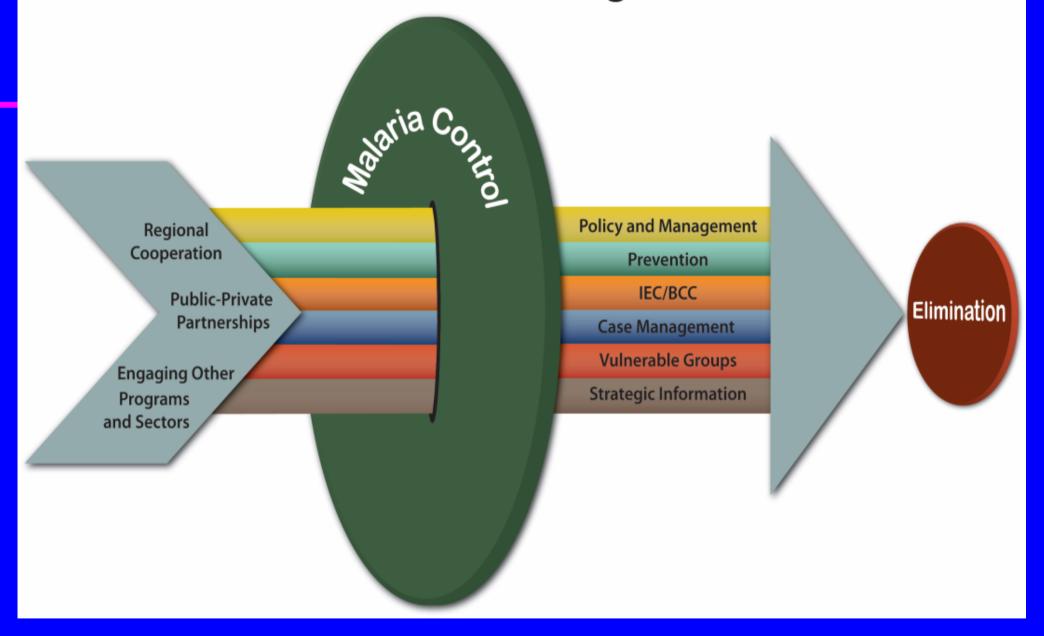


Main strategies/activities

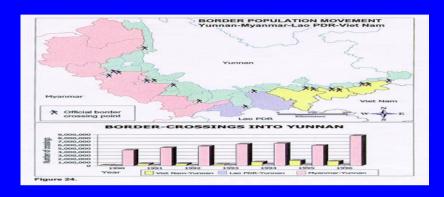
- ◆ Strategy 1—Early diagnosis and prompt treatment
- ◆ Strategy 2—Full coverage of population at risk with appropriate measures for vector management
- Strategy 3—IEC/BCC and social mobilization

- ◆ Strategy 4—Comprehensive malaria control coverage for vulnerable, poor and marginalized populations at high risk of malaria
- Strategy 5—Surveillance and response to malaria hot spots
- ♦ Strategy 6—Governmental commitment and management

On Track to the Target



Main challenge for elimination



Cross border malaria



Radical treatment for G6PD deficiency

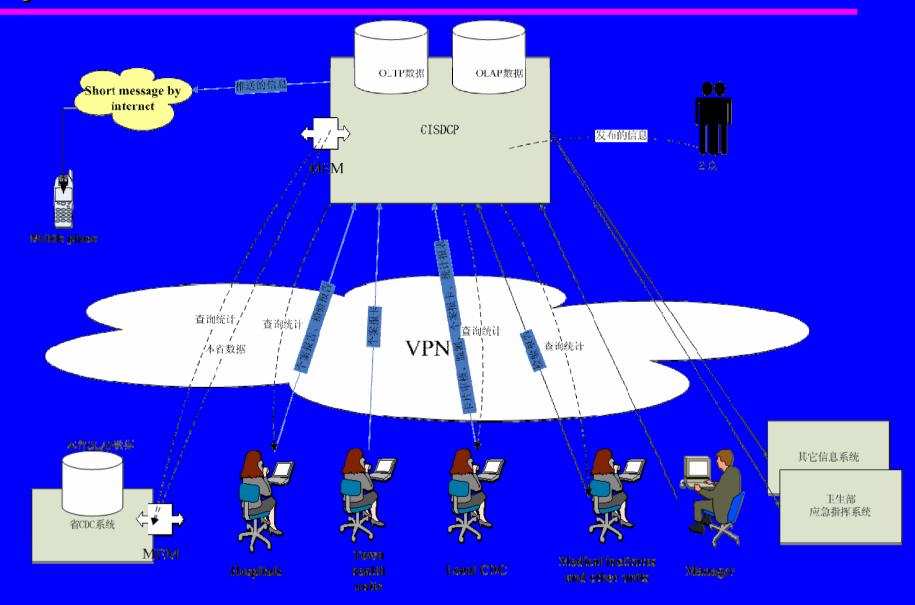


Malaria in migrant population



Weak in Surveillance and early warning (antimalarial drug resistance)

Strengthen case report and surveillance system from central to rural areas



Research priorities for malaria elimination

- Monitor and respond to resurgence risks in areas where low- endemic control has been achieved, but where potential for transmission remains high.
- Sensitive and rapid technique for malaria diagnosis.
- **♦** Radical treatment for G6PD deficiency *vivax* cases

China: Political support

- ◆ The National Action Plan for Malaria Elimination in 2010-2020 in China
- The National Guidelines on Malaria Surveillance and Epidemic Response
- Strengthen health system and capacity building in remote areas
- ◆ The government improve the invested fund for malaria control and elimination
- International and regional collaboration on networks for control and elimination malaria.

