



江苏省血吸虫病防治研究所
江苏省寄生虫病防治研究所
Jiangsu Institute of Parasitic Diseases

Jiangsu Institute of Parasitic Diseases (JIPD)

PARTNER TYPE:
Government

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INSTITUTION BACKGROUND

The Jiangsu Institute of Parasitic Diseases (JIPD) is a government research institution under the leadership of the Ministry of Health, China. The institute focuses on three main tasks. Scientific research; Field services in control programme and; Professional training in parasitic diseases.

JIPD has been catalytic in generating and disseminating new evidence and tools for malaria elimination and has trained over 1000 participants from more than 30 countries.

PARTNER INSTITUTION ENGAGEMENT WITH APMEN

Since APMEN's establishment, JIPD played a significant role in strengthening the work of the Network. JIPD was instrumental in generating and translating evidence for APMEN Country Partners; developing tools and techniques specific for resource poor settings; hosting workshops and meeting chairing the APMEN Vivax Working Group and the Surveillance and Response Working Group and training individuals and teams from National Programs.

Key Contributions

Collaborated with APMEN on Diagnostic Research Projects to develop low costs tool for detection of low density and submicroscopic *P. vivax* infections in field settings, determine the parasitological and clinical characteristics of *P. vivax* infections in pre-elimination settings and assess the transmission dynamics of *P. vivax* infections.

- Collaborated with APMEN on three Surveillance Research Projects
 - Producing accurate malaria prevalence map at the county level in China and establish mathematical models for assessing interventions and predicting optimal elimination strategies.
 - Describing the prevalence of anti-malarial antibodies as indicators of malaria transmission in the context of malaria elimination in the central China and exploring the utility of serology as a surveillance tool to support intensive malaria control, foci identification, and elimination evaluation.
 - Assessing the prevalence of G6PD deficiency in both central and southern China to guide the widespread use of primaquine radical cure in these regions.
- Pioneered case-based surveillance approaches that are central to elimination efforts and supporting national programs with training to adapt this system to suit their local needs and resources.

CORE EXPERTISE AND FUNCTIONS

Technical Support, Training and Operational Research

Case Management

Technical Support and Training

JIPD have substantial in-house training programs accessible for all Country Partners and relevant for Public Health personnel from low-and middle-income countries.

- Seminar on Malaria Control for Officials from Developing Countries
- Training Course on Malaria Prevention and Control Technology for Belt Road Initiative Countries
- Seminar on Infectious Diseases Prevention & Control for Developing Countries

JIPD also runs a range of courses specifically for national programs from Africa and are collaborating with Nanjing Medical University and Jiangnan University to train Master of Public Health Students.

Operational Research

Current and recent projects at JIPD include:

- Assessments of diagnostic tools
- Therapeutic studies
- Molecular testing
- Genotyping
- Surveillance for resistance
- Mass drug administration for the control and elimination of *P. vivax* malaria
- Maintaining resources such as microscopy and community health workers at the provincial level in low transmission settings.

Surveillance

Technical Support and Training

JIPD developed the I-3-7 methodology, a widely adopted surveillance strategy across the region. JIPD has been training partners and translating this work for national programs. JIPD teams work country partners to assess where case-based surveillance can be strengthened and developing recommendations on how to do this.

Operational Research

Current and recently concluded operational research projects in Surveillance include;

- Evaluating malaria case investigation and reactive case detection activities.
- *P. ovale* and *P. malariae* in a malaria elimination setting.
- Measuring and mapping the progress of elimination in China.
- Understanding dynamics and at-risk groups at risk of importing malaria.

Vector

Technical Support and Training

JIPD have trained entomologists/malaria programmers on vector biology and control progress, from many countries in Asia, Africa and Latin America. Moreover, JIPD collaborated with WHO and APMEN to deliver the vector control-related lectures to build capacity in some specific countries in the past years.

Operational Research

- Attempting the integrated vector control measures in malaria elimination stage.
- Understanding the interaction between malaria parasites with vectors.
- Discovering the mechanism involved in the formulation and development of insecticide resistance in main malaria vectors.
- Developing the detection methods for the insecticide resistance in main malaria vectors.