Developing a Monitoring System in Vietnam

The project has been developing a monitoring system model for drug resistant bacteria and antibiotics in Hanoi, Nha Trang and HCMC since June 2014. This system is identifying the prevalence of ESBL-producing E.coli as well as Beta lactam antibiotic residues in samples from selected markets. Using the manual developed by the project, the microbiology team is screening ESBL-producing E.coli using the disk diffusion test and the pharmacology team is utilizing HPLC (High Performance Liquid Chromatography) to detect ampicillin. After validating the system, the project will recommend it to the MOH for use until the middle of 2016.

PROJECT NEWSLETTER



A project to "Determine the Outbreak Mechanisms and Develop a Surveillance Model for Multi-Drug Resistant Bacteria"



NIN, the Pasteur Institute of Nha Trang (PINT) and the Institute of Public Health HCMC (IPH) are in charge of monitoring Hanoi, Nha Trang and HCMC respectively. From different types of markets (retail, wholesale and supermarkets), they are collecting 4 kinds of food samples. With 12 samples from each market, a total 36 food samples are tested by each institute per quarter.

The project has developed a practical manual allowing each institute to operate a procedure for common monitoring drug resistant antibiotic and bacteria To residues. analyze resistant whether drug exist in food bacteria microbiology products, check for teams ESBL-producing E.coli. Using chemical processes, antibiotic lactam Beta residues (Ampicillin) are with HPLC tested After equipment. the analysis, detected data is recorded by each individual institute and later summarized by NIN.

Outline of Monitoring Activities



EDITED BY PROJECT OFFICE

Room 308, 48B Tang Bat Ho, Hai Ba Trung, Ha Noi Tel/Fax (84-4)39729383 http://www.satreps-mdrb.jp/

SATREPS Science and Technology Research Partnership for Sustainable Development Program

The 3rd JCC and Mid-term Review held at NIN, Hanoi

On August 6th 2014, the 3rd Joint Coordination Committee (JCC) was held at the National Institute of Nutrition (NIN), Hanoi. The JCC monitors the progress of the project and agreed with the results of a mid-term review proposed by JICA. A total of 40 participants took part in the JCC, from the Ministry of Health (MOH), Vietnamese and Japanese research institutes, the Embassy of Japan and the JICA.





CBD





Agreement on the results of the mid-term review between the Project Leader, Associate Prof. Tuyen (NIN), the review mission leader Dr. Kanai (JICA) and the Project Chief Advisor Prof. Yamamoto (Osaka University)









Research Digest, Jun. – Oct.

Hanoi

🖲 Thai Binh

Training in Vietnam



NIN: (1) Research feedback given to the people of Bavi by Prof. Hirai & Dr. Huong. (2) Disk diffusion test by Dr. Hase & Ms. Phuong. (3)Checking the Bio Analyzer is Prof. Hirai, Mr. Ueda & Ms. Ngan. (4) Anthropology presentation by Dr. Son.



TBMPU: (1) Interview with a retailer, Ms. Phuong. (2) Disk diffusion test of E.coli, Ms. Phuong & Ms. Diep. (3)Checking for E.coli on a food stamp, Ms. Hoa, Mr. Ueda & Ms. Hanh. (4) Measuring the sensitivity of E.coli to antibiotics, Ms. Ha.



IPH: (1) Research meeting featuring Dr. Phuc, Ms. Dao, Dr. Kumeda and Dr. Kanki. (2) Analysis at the microbiology laboratory. BDWSM: (3) Checking the stock of samples for chemical analysis, Dr. Harada and Dr. Dung, (4) Sampling instruction by Dr. Dung & Dr.Harada to Mr. Thanh.



🔍 Nha Trano

Ho Chi Minh

Can Tho

PINT: Joint research meeting with Ms. Hue, Mr. Phong, Ms. Khanh, Mr. Vien, Prof. Yamamoto, Dr. Nakayama, Dr. Sumimura, Dr. Harada & Mr. Ueda.



CTU: (1)-(2) Fish sampling in Can Tho. (3) Joint research meeting with Dr. Ha, Dr. Ngu, Dr. Hoa, Dr. Harada, Dr. Sumimura & Dr. Nakayama.

 \geq Abbreviation: NIN=National Institute of Nutrition, TBMPU=Thai Binh Medical Pharmaceutical University, PINT=Pasteur Institute in Nha Trang, IPH=Institute of Public Health in HCMC, BDWSM=Binh Dien Wholesale Market Company, CTU=Can Tho University

From October 13th to October 17th, a local training course was held at the NIN, Hanoi. The training course was designed to instruct technicians of NIN, PINT and IPH in a pharmacological method of monitoring antibiotics in food. The method, using HPLC was developed by Dr. Dung (NIN) in collaboration with Dr. Harada (Osaka University). Facilitated by Dr. Dung and Dr. Harada, a total 11 participants studied a common procedure to detect Ampicillin from chicken, pork, fish and shrimp. The method will be applied to the team's monitoring activities, specifically of beta lactam antibiotics.



- Lecture by Dr. Dung and Dr. Harada followed by practical training at NIN laboratory.
- Trainees were presented diplomas on completion by Dr. Lam and Dr. \geq Harada.

Training in Japan

Three Vietnamese researchers were invited to participate in a short food monitoring course in Japan from August 24th to October 11th this year. A mixture of common lectures, basic laboratory practices, field visits and in-depth analysis kept the team busy. Lectures were held at Osaka University and they practiced laboratory skills at Osaka Prefecture Institute of Public Health. For the analysis, they travelled between Osaka Prefecture University, Tokushima University and University of the Ryukyus. During the final session they presented their results at Osaka Prefecture University.



EDITED BY PROJECT OFFICE

Room 308, 48B Tang Bat Ho, Hai Ba Trung, Ha Noi Tel/Fax (84-4)39729383 http://www.satreps-mdrb.jp/





Ms. Dao (IPH), Ms. Ngan (NIN) and Ms. Van (PINT) training at Osaka Prefecture Institute of Public Health.









