

## Improve Competency and Problem-Solving Capacities

Safety and purity of drug and food are closely involved with the quality of human life, and thus, these are of great concern to many citizens in regions and countries. Indonesian FDA (Badan POM) has dedicated to human welfare and certification of safe food and effective drug. JICA has supported BPOM to improve its competency and problem-solving capacities for protection of life and prevention of adverse health effects.



Using a computer reading system, a trainer was teaching on how to analyze data detected in the laboratory.

### Increase provincial laboratory testing capability

Upgrading laboratory testing capability for food and other commodities is an urgent task assigned to Badan POM by the Presidential order on decentralization. Testing for foodborne pathogen detection is no exception. Food-borne diseases are caused by pathogenic microbes such as Enterohaemorrhagic *Escherichia coli* (EHEC) in variety of food. Use of more rapid laboratory methods are inevitable for quick responses on food poisoning incidents. The latest advanced microbiology method for molecular detection and analysis is applied to detect verotoxin genes in EHEC. In comparison of Loop-mediated isothermal amplification (LAMP) and Polymerase chain reaction (PCR) equipment, LAMP method is found to be more reliable, simpler, and quicker.

Two scientists of the National Quality Laboratory of Drug and Food (NQCLDF, *in Bahasa* PPPOMN) were trained in Japan for one month in October 2018, and LAMP equipment was provided by JICA to the PPPOMN. These trained scientists conducted training of trainers (ToT) to scientists of Balai POM laboratories in 2019, held in Pontianak in April, Semarang in June, and Yogyakarta in August. Pre- and post-test evaluation proved the increase of trainees' capability and knowledge in this subject. It is expected that in future, this method will be spread to all local laboratories to obtain more reliable testing results.

### Empower small and medium scale food enterprises (SMEs)

Manufacturing safe and good quality of food products is a mandate of all food producers including small and medium-sized food enterprises (SMEs). Good manufacturing practice (GMP) is required for quality assurance in production of commodities. GMP includes record-keeping as a tool to secure in-house traceability and recall and withdrawal in food chain.

Primary, BPOM supervised a survey in April-May 2018 for 30 SMEs located in Jakarta, Bogor, Depok, Tangerang and Bekasi to consider feasible and practicable requirements on record-keeping in SMEs. Then, guidance on record-keeping in SMEs was drafted and used for a trial at 16 SMEs in January 2019 to obtain questions and difficulties from the industries for further improvement. Additionally, a five day national training among officers of 10 Balai and 16 Loka POM was held in August 2019. The officers exchanged views on how to increase the capacity of SMEs for record-keeping.



During the initial survey on record keeping practice, food processing and handling procedures were observed in a frozen siamay producing plant.



Trainees discussed the SMEs' current situation during a panel session in the national training, August 2019

Ms Reri Indriani, Deputy of the Processed Food Control, in her remarks, highlighted that reforming capability of SMEs should ensure safe and higher quality of commodities. It would also bring more significant benefit to industries and secure their business competitiveness at local and global levels. Among 56 million SMEs raising 70% of GDP, 1.5 million food-product SMEs has contributed to 40 % of the growth in 2017. The guidance would be completed in coming months for excel applicable ordinance.

### Improve Pharmacovigilance (PV) System

Training on post-market drug safety measures in Japan is one of the activities to strengthen basic PV framework in Indonesia. The recent training conducted on 25<sup>th</sup>–31<sup>st</sup> August 2019; visited PV facilities in Tokyo and Osaka. Four of six trainees are heads of BPOM in provincial areas from Semarang, Serang, Denpasar and Mataram. Other trainees are staff from Pangkal Pinang and BPOM central. Lectures and discussions were delivered by PV department in (a) Ministry of Health, Labour and Welfare (MHLW), (b) Mitsubishi Tanabe Pharma Corporation, (c) NIPRO, (d) Tokyo Metropolitan government and (e) National Centre for Global Health and Medicine.



Pharmacist at hospital in Tokyo shown PV trainees the document for process of medical prescription' service for observing the system in healthcare facilities

Through observation on PV reporting in Japan, participants recognised importance of active industry's report with qualified data. In healthcare facilities, pharmacists promote better adverse drug reaction (ADR) report. BPOM plans to increase their own ADR report and strengthen drug safety in Indonesia with better reporting system in both pharmaceutical industry and healthcare professionals in Indonesia.

### WHO WE ARE



Ms Iseki, Mr Sano, Ms Endo and Mr Satim in back row, and Mr Kuboki, Ms Cindy, Ms Lucky, and Ms Desny in front row (left to right).

We are on a mission to support BPOM for enhancing drug and food safety control systems, started working with BPOM in 2016 using JICA technical cooperation scheme, as its important role in harmonization of public health policies in ASEAN. Major activities of the project comprehend to the pharmacovigilance system, as well as food safety emergency risk management, food contact material control, processed food monitoring/inspection and strengthening of laboratory testing capacity.

We are professional members taking good teamwork and determination. Mr Yoshihiko Sano, Chief of the office, has been leading the project since August 2019. He has expertise in pharmaceutical science and control of drug safety and policies.

Ms Noriko Iseki currently joined the office is veterinarian and senior food safety expert. Ms Noriko Endo, outgoing administration officer until December 2019, has dedicated to the project since 2016. Mr Isamu Kuboki will be a new administration officer from February 2020, expected to better operate the project using his over-decade experience in number of different JICA projects in Indonesia. Ms Desny Putri Sunjaya and Ms Cindy Rahman Aisyah, are secretary with public health related background, and Mr Satim, project driver, have intensively worked for the project. Anyone who wishes to visit us will be escorted by Ms Lucky, security officer of BPOM.



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