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Name of the University, Hospital, Research Institute, Academy or Ministry

National Center for Global Health and Medicine

Name of the Division, Department, Unit, Section or Area

Disease Control and Prevention Center, National Center for Global Health and Medicine Hospital

City Shinjuku-ku **Reference Number** JPN-94

Title WHO Collaborating Centre for Prevention, Preparedness and Response to Emerging Infectious Diseases

Report Year 04-2021 to 04-2022

1. Annual report on the agreed workplan

Describe progress made on the agreed workplan. For each activity, detail (1) the actions taken, (2) the outputs delivered, as well as (3) any difficulties that may have been encountered. Three responses are expected. [maximum 200 words per activity]. Indicate, if an activity has been completed previously, has not yet started or has been placed on hold.

Activity 1

Title: At the request of WHO, to provide technical and policy advice to inform WHO's work in the implementation of Asia Pacific Strategy for Emerging Diseases (APSED).

Description: • The designated institution has recorded experience in emerging infectious diseases (EIDs), to be shared with WHO, in order to inform its work in the context of the APSED TAG and with Member States, as appropriate.

• Technical advice from the institution may inform WHO efforts towards the provision of technical and policy guidance to further support Member States preparedness and response efforts.

Status: ongoing

The Institution provided technical advice on the planning and implementation of infection prevention and control (IPC) and clinical management components through the participation of Dr OHMAGARI to the Meeting of the Technical Advisory Group on the Asia Pacific Strategy for Emerging Diseases and Public Health Emergencies (APSED III): Advancing Implementation of the International Health Regulations (IHR) (2005) at the request of the World Health Organization (WHO) (July 27-30, 2021, online).

Activity 2

Title: Under the leadership of WHO, to strengthen Member States preparedness and response capacity through supporting the IHR Monitoring and Evaluation (M&E) Framework activities in line with the IHR through APSED.

Description: • It is important to review, improve, and EIDs outbreaks through an objective assessment of facilities by experts.

• This activity (M & E) assess whether systems are working, not just whether capacities are in place.

• WHO may use the deliverables as actual evidence to inform its efforts towards improving and strengthening existing capacity, learning from real world experiences on the ground (grounds up approach) in line with the vision for the future.

• WHO may use the assessment to inform its activities towards guiding capacity improvement in countries concerned.

Status: ongoing

WHO requested the historical IPC review in Japan, 2021. The Institution provided the results through the article “Building an Effective Infection Prevention and Control (IPC) System in Japan: A Historical Review” (World Health Organization (WHO) Institutional repository for Information Sharing, in press in June 2021). The Institution discussed with WPRO and followed activity done through the interviews with six healthcare professionals and officers at the Ministry of Health or WHO Country Office of several low- and middle-income countries in WPRO region with an aim to exploratorily identify gaps and challenges regarding the establishment of an IPC system from January 2022 to May 2022.

Activity 3

Title: In support of WHO, to develop and provide in-country training and technical advice on IPC and clinical management of EIDs to strengthen preparedness.

Description: • There is a strong need for Member States to strengthen develop and strengthen IPC capacities. It is hope that these activities including trainings, workshops and development of guidance documents would achieve the purpose

• The deliverables will be used by WHO and Member States to develop and enhance IPC and clinical management capacities

Status: ongoing

The Institution through Dr. OHMAGARI contributed to the WPRO's COVID response with his presentation and discussion on November 22, 2021, with Mongolia, Lao PDR, Vietnam, Philippines, and Cambodia (Planning for endemic COVID-19 – emerging lessons on clinical management and care pathway in the region), as well as a discussion on Japan's response to the Omicron outbreak that took place on January 24, 2022 (Learning from Japan's response during the Omicron outbreak).

Requested by WPRO, the Institution through Dr. OHMAGARI, Dr. ISHIKANE, and Dr. NOMOTO held a discussion with Dr. MATSUI and Dr. NISHIJIMA from the WPRO, and Dr. OTSU from Laos, to support clinical management and IPC for EID, especially in training and clinical management and IPC guideline in Vietnam and Laos (April 28, 2022). The Institution will continue to support them.

Ongoing collaboration between the Institution and WHO in terms of GOARN training on IPC and clinical management, the Institution summarized and published an article titled “Facilitating the deployment of Japanese human resources for responding global outbreaks of emerging and Re-emerging infectious diseases: A cross-sectional study” (PMID:34635449). The main obstacle to GOARN deployment was found to be “making time for deployment.” The Institution shared these results to WHO.

Activity 4

Title: At the request of WHO, to share information, knowledge, and teaching materials on best practices of IPC and clinical management of EIDs.

Description: • EIDs outbreaks must be dealt with the right information and knowledge, which requires the sharing of most to date and accurate information and training materials based on the latest studies and experience.

• WHO may use this information to support its work towards guiding and formulating policies and interventions for EIDs, as appropriate.

Status: ongoing

Requested by WPRO, the Institution developed and updated teaching materials for IPC and antimicrobial stewardship (ASP) which are considered to be useful for resource-limited countries. These resources are focused on hand hygiene, oral care, ASP, ASP teams, and the prevention of surgical site infections in orthopedics. These materials were shared through the Institution's website after agreement of WPRO.

Activity 5

Title: At the request of WHO, contribute with technical expertise as needed in support of WHO's investigation of EID outbreaks in Member States

Description: • To prevent and manage EIDs outbreaks, it is necessary to promptly investigate the source of infection, infection route, patient information, and background information from a professional perspective.
• WHO may utilize the findings, as appropriate, to inform its efforts in managing disease outbreaks and supporting policy development.

Status: ongoing

Requested by the GOARN, the Institution through Dr. TSUZUKI and Dr. ASAI supported to the WPRO as data management officers from November 2021 to February 2022 and from December 2021 to March 2022, respectively. They managed epidemiological data associated with the coronavirus disease (COVID-19). They prepared daily reports on the epidemiological situation regarding COVID-19 in the WPR, which they communicated to the World Health Organization Health Emergency Team Lead and the Information and Planning Pillar. They also provided information regarding the epidemic and public health countermeasures in Japan through regular meetings, discussions, and presentations. The deployment of these researchers led to the appropriate maintenance and improvement of the data aggregation system.

Activity 6

Title: To support WHO in providing technical assistance in to improve IPC and clinical management of EIDs through webinars and workshops, as part of outbreak response

Description: • Experienced IPC specialists and technical expertise are needed to promptly control outbreaks and other emergencies due to EIDs. So strong capacity development is needed
• To deploy this expertise to build Member States capacity and for deployment during outbreaks

Status: ongoing

Between November 17-18, 2021, the Institution co-organized the virtual Global Outbreak Alert Response Network (GOARN) workshop titled "Orientation to International Outbreak Response with GOARN and WHO Tier 1.5 Training Workshop 2021", in collaboration with GOARN, the WHO headquarters, and the WPRO. This year, in addition to Japan, participants were from Australia, Singapore, and Fiji. The program consisted of case study group work based on scenarios that GOARN's mission may face in the field and experience-sharing sessions by WHO and Japanese experts who had been dispatched to GOARN as IPC and case management specialists. It was a great success. In total, 31 enthusiastic trainees actively participated in this course.

Since 2019, the Institution has created a JAPAN GOARN Roster for GOARN training graduates who are candidates for GOARN placement. As of May 17, 2022, 75 experts had been registered.

2. Annual report on other activities requested

Should WHO have requested activities in addition to the agreed workplan, please describe related actions taken by your institution [maximum 200 words]. Please do not include in this report any activity done by your institution that was not requested by and agreed with WHO.

Requested by WPRO, in collaboration with CARBGEM Inc., the Institution through Dr. YAMOTO developed an AI application that can identify the name of bacteria from microscopic images of gram-stained bacteria (Bacterial infection teller and treatment estimator: BITTE). This AI application aims to reduce the occurrence of AMR due to inappropriate use of antimicrobial agents through image recognition. This was presented at The Second WHO Innovation Forum in the Western Pacific Region (April 28, 2022).

Requested by WPRO through Dr. NISHIJIMA, the Institution through Dr. MORIOKA responded to several questions on COVID-19 patient care in low- and middle-income countries in WPRO region, and provided relevant materials based on findings in Japan.

Requested by WRPO, the Institution through Dr. OHMAGARI participated as a panelist in the Human Resource Development Program session at the GOARN Meeting of Partners, organized by WHO for GOARN partner Institutions (December 16, 2021). The Institution made a presentation on human resource development in Japan in terms of emphasizing of capacity building of human resources.

3. Resources

Indicate staff time spent on the implementation of activities agreed with WHO (i.e. those mentioned in questions no. 1 and no. 2 above). Do not include any data related to other activities done by your institution without the agreement of WHO. Please indicate staff time using the number of “full-day equivalents” – a day of work comprising 8 hours (e.g. 4 hours work per day for 7 days should be recorded as 3.5 full-day equivalents).

Number of staff involved (either partially or fully)

Senior staff	Mid-career staff	Junior staff, PhD students
10	0	0

Number of full-day equivalents, total for all staff involved

Senior staff	Mid-career staff	Junior staff, PhD students
200	0	0

Implementation of the agreed workplan activities (i.e. those mentioned in questions no. 1 and no. 2 above) normally require resources beyond staff-time, such as the use of laboratory facilities, purchasing of materials, travel, etc. Please estimate the costs of these other resources as a percentage of the total costs incurred (e.g. if you incurred costs of USD 100 and the value of your staff time was USD 50 which makes the total of USD 150, please report 33.3% and 66.7%).

Percentage of costs associated with staff time	Percentage of costs associated with other resources	Total
50.00	50.00	100.00

4. Networking

Describe any interactions or collaboration with other WHO Collaborating Centres in the context of the implementation of the agreed activities If you are part of a network of WHO Collaborating Centres, please also mention the name of the network and describe your involvement in that network [maximum 200 words].

In collaboration with the WHO CC (AMR Clinical Reference Center, the National Center for Global Health and Medicine [NCGM], JPN-98), the Institution conducted the COVID-19 REGISTRY JAPAN (COVIREGI-JP) to clarify the epidemiology and clinical profile of COVID-19 hospitalized patients in Japan (<https://covid-registry.ncgm.go.jp/about-the-registry/>). As of June 27, 2022, 67,904 cases from 702 hospitals had been registered.

At the request of the WHO CC (Bureau of International Health Cooperation, NCGM, JPN-45), the Institution participated in the 4th WHO CC Conference in Japan on April 2022, which was attended by Dr. KASAI, Regional Director of the WPRO. At the conference, the Institution through Dr. ISHIKANE presented the activities conducted towards COVID-19 management.

In collaboration with the WHO CC (Bureau of International Health Cooperation, NCGM, JPN-45), the Institution through Dr. OHMAGARI and Dr. ISHIKANE published an article titled "Japanese WHO Collaborating Centres (WHO CCs) fight against COVID-19", (PMID:33937576).