

Technical training on hemodialysis and water quality management in Mongolia

① Background information: local situation and needs

Since the fiscal year 2020, we were selected for the Projects for the Growth of Medical Technologies and carried out support for the establishment of guidelines related to the water quality of dialysis fluid, as well as water quality inspections of dialysis fluid throughout Mongolia. The established guidelines were announced to each facility by the Ministry of Health in 2022.

② Project objective

The objective of the project is to improve the knowledge and basic skills related to regular water quality testing, maintenance of dialysis machines, and hemodialysis in order to control water quality to meet the standards of the established guidelines.

③ Outline of the project

In this project, the Japanese Society for Technology of Blood Purification, an academic organization with expertise in blood purification, will cooperate with the Mongolian Dialysis Society and the First, Second, and Third Central Hospital of Mongolia (the top government hospitals) to provide training to all dialysis workers in Ulaanbaatar, especially on the technical aspects of dialysis treatment. In addition, we will provide technical training for water quality management at each facility to enable the facilities to appropriately manage the water quality at their facilities and verify the effectiveness of the guideline.

④ Expected results and ripple effects of this project

The guidelines state the need for regular measurements of endotoxin and viable bacteria in Mongolian healthcare institutions. They also mandate the provision of knowledge and information to doctors and medical staff, as well as the organization of training sessions to build capacity. Since the measurement of endotoxin levels requires specialized equipment and measuring reagents, a system will be established whereby each hospital can first outsource measurements. Additionally, in cooperation with domestic companies such as Nipro Corporation, local medical equipment distributors will be able to supply expendables such as sheets for measuring viable bacterial counts and reagents for endotoxin measurement.

