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Session Name : 재난대응위원회(Disaster Response Committee)

Session Topic : -

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Building a Robust Network and Advancing Disaster-Resilient Equipment and Protocol for Dialysis Facilities

Mariko Miyazaki

Tohoku University, Graduate School of Medicine, Japan

In Japan, great earthquakes occur with a certain frequency. While there are many common issues in disaster response, the issues may partially vary depending on the geographical and social conditions of the affected area. In other words, since the exact same situation as in past major earthquake disasters will not be repeated, it is important to minimize the damage and impact by preparedness and flexible responses each time. A characteristic of kidney replacement therapy in Japan is that the number of patients with end-stage kidney disease receiving dialysis treatment is 2,762.4 people/1 million as of the end of 2023(excluding kidney transplant patients) which is the second highest in the world. More than 90% of them are treated by hemodialysis. Half of the hemodialysis facilities in Japan are private clinics, and 55% of patients receive treatment at private clinics. Networking: Patients' lives are at risk by interruption of dialysis. We should share that dialysis treatment is highly vulnerable to disasters and needs effective disaster relief. When a disaster occurs, we can get the information on the damage situation and support needs via information network operated by Japanese Association of Dialysis Physicians (JADP) if internet was available. The basic unit of government response to disasters in Japan is the 47 prefectures. In addition, disaster base hospitals are set up in each medical district with a population of about 200,000, and this is a system in which medical care can continue even great disaster. The headquarters for disaster countermeasures of the government and the headquarters for disaster base hospitals work closely together to share medical resources and information. Dialysis service provider and these headquarters should cooperate for quick recovery and provide dialysis therapy. The Great Hanshin-Awaji Earthquake 30 years ago recognized the importance of medical transportation and preventable death. The Great East Japan Earthquake in 2011 was a disaster that affected many prefectures and areas with nuclear powerplant accident. These impacts continued for a long time and seriously affected health of the people in the

disaster-stricken areas. In addition to earthquakes, damage from localized heavy rains, heavy snowfall, and typhoons frequently occurs, and the heaviest rains and winds on record are often observed, causing severe damage. The main preparations are to take measures to prevent damage to facilities and equipment from strong shaking, to establish disaster response manuals, to educate patients, and training activities in peacetime. Especially, we recognized the importance of the physical and mental health of medical professionals in the disaster area. In this context, the Japanese Hemodialysis Assistance Team (JHAT) was organized mainly composed of clinical engineers, nurses, and logistics. Their mission is to support voluntary the needs of the affected areas. Throughout those approaches, the Ministry of Health, Labor and Welfare's (MHLW's) scientific researches were conducted to ensure a dialysis care system in the great disaster. The JADP was invited to the MHLW's emergency liaison meeting after Noto Peninsula earthquake of our first attending. We should prepare against disaster through collaboration among a wide range of organizations.

Keywords: Disaster preparedness, Dialysis , Great earthquake, Patient education, Disaster response

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Japanese Association of Dialysis Physician



Our network will start Disaster Relief Act on the cases as follows:
 the earthquake, stronger than seismic intensity 5,
 fire, flood, erosion of the structure over a wide range, the interruption
 of the transportation network has occurred
 If you know such a thing in the nearby areas, please send the facility
 information in the following way.
 Information transfer form is displayed when you click a disaster
 information transmission button.

Enter the information as described in each input item, please register.

<http://www.saigai-touseki.net/>

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The information control on the coordination of wide area medical transportation

