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OR13 - Development of Particle Therapy Database of Operation and Maintenance

Wednesday, 13 September 2023 11:00 (20 minutes)

A database system for operation and maintenance of the accelerator and irradiation system for particle therapy was developed. The main function is to record and search detailed information of machine troubles. Each actual “trouble event” was entered into the database and aggregated into a higher level concept of “trouble class”. Trouble frequency analysis and progress management including communication with machine vendor were carried out in terms of trouble class. In addition, operation results are also entered into the database and machine availability is automatically calculated using the operation and trouble data. The database has been in operation at East Japan Heavy Ion Center, Faculty of Medicine, Yamagata University since January 2021, and in Gunma University Heavy Ion Medical Center since January 2023. In Yamagata University, 13800 trouble events and 950 trouble classes has been entered and efficiently managed.

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Session Classification: Operator Made Tools