

A Prescription Surveillance System for the Optimization of Cancer Chemotherapy and Its Evaluation

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SUMMARY

To administer appropriate agents to inpatients and outpatients with various disorders, we must provide drug information, and always consider basic patient information including the disease name and clinical laboratory data for dispensing, sterile preparation and guidance for taking drugs. In particular, this should be emphasized in administering anticancer agents, which have potent cytotoxicity, and may cause serious side effects. However, in conventional pharmacies, much time is needed to check the contents of prescriptions, and it is impossible to rapidly detect the interaction between oral agents and injections, agents contraindicated in combination with the prescription a few weeks before, and agents that cannot be administered due to the patient's condition. To overcome these limitations, we established a real-time prescription surveillance system in which changing basic patient information and frequently revised drug history are efficiently and accurately input from a hospital information system.

This system allowed all pharmacists to contribute to the optimization of various drug therapies such as cancer chemotherapy regardless of experience in pharmaceutical service.