

S11-5 Life cycle management for proper use of injectable drugs : Viewpoint from clinical practice

○Toshiaki SENDO¹, Tomoaki SATO¹

¹Department of Pharmacy, Okayama University Hospital

Since parenteral solution is directly mediated into vessel with the injection, the proper use is especially desirable from the viewpoint of efficacy and safety. Therefore, severe quality standards have been established compared with other dosage forms. In the clinical practice, pharmacist has a duty to promote the proper use of injectable drugs based on experimental evidences.

Even the injectable dtugs with high quality in a manufacture stage occurs some problem with risk during usage process. In order to practice the proper use for the patients, it is necessary to provide the experimental evidence for the avoidance of adverse events. Then, the feedback of to the manufacturing company for further improvement of injectable drug is performed. Thereby, the improved injection provides with additional information for proper use by the manufacturing company. This results in the development of injections with high quality.

In this section, the two cases of particulate contamination in the injectable drugs are introduced.

- 1) Safety assurance due to development of large-volume prefilled syringes as the substitution of vials or ampoule,
- 2) Importance of imformation to avoid a risk of bubble formation after dissolution of the antibiotic preparations.