

Annex 1: research questionnaire	
Questionnaire contents	
Respondent data	
Name/Unit	
Sex	
Age	
Profession	
Working period	
Employee status	
Intravenous admixture training	
Questions of knowledge	
Questions List	False/True
Aseptic dispensing is the preparation of sterile preparations according to aseptic procedures and carried out in a cleanroom that meets the requirements to ensure product sterility and stability	
NS solution contains 4.5gram NaCl per 1000 ml	
Aquades can be used as a solvent	
Personnel who perform intravenous admixtures do not have to have training experience in intravenous admixtures	
Cleanroom is a room where personnel must wash their hands and wear personal protective equipment (PPE)	
Anteroom is a particular room for mixing intravenous drugs	
The air pressure inside the cleanroom is more positive than the air pressure outside	
Personnel wash their hands and rub their palms and fingers with a handrub for at least 20 seconds before working aseptically	
During mixing, personnel are allowed to wear watches and rings	
Cleaning the workbench using 100% isopropyl alcohol (IPA)	
The ultraviolet lamp should be lit when intravenous admixtures take place in Laminar Air Flow (LAF)	
Drug waste disposal bags should not be placed in the LAF	
Using Personal Protective Equipment (PPE) includes protective clothing (short sleeves), headgear, gloves, and masks	
The technique of transferring the drug solution from the syringe into the infusion bottle at a position of 45°C	
Preparation results must be labeled so as not to be confused	
The expired date of intravenous admixtures is the same as the expired date listed on the packaging of each mixed material	
Storage conditions are adjusted to the stability of each drug	
Delivery of the results of intravenous admixtures using a tightly closed container and protected from light	
For drugs that must be stabilized at a specific temperature at the time of delivery they must be placed in a container that can maintain a consistent temperature	
The implementation of intravenous admixtures activities does not need to be recorded	