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WANNA KONGVIVEGKACHORNKIJ: COMPARISON BETWEEN THE EFFECT OF NORMAL SALINE AND HEPARIN IN NORMAL SALINE SOLUTION ON BLOOD CLOTTING, PHLEBITIS AND MAINTAINING TIME OF PIID IN PEDIATRIC PATIENTS. THESIS ADVISORS: RUTJA PHUPHAIBUL, D.N.S., JARIYA WITTAYASOOPORN, D.N.S., 100 p. ISBN 974-662-975-1

The purpose of this quasi - experiment research was to compare between the effects of normal saline solution and Heparin in normal saline solution on blood clotting, phlebitis and maintaining time of peripheral intermittent infusion device (PIID)in pediatric patients. The subjects were drawn from pediatric patients who were admitted in the Pediatric Department, Faculty of Medicine, Ramathibodi Hospital. The study groups consisted of patients receiving treatment which included intravenous injection through the application of PIID NO 24 G. The purposively chosen sample was divided into Heparin and normal saline solution(NSS)groups by random sampling. The Heparin flushed group received Heparin 39“times”; the NSS flushed group received normal saline solution 44“times”. For the purposes of this experiment, when a patient received intravenous injection for a period of 3 days or more with a single catheter insertion, it was considered to be one“time”. Injections were given according to patients’ treatment plans. The data concerning occurrence of blood clot and phlebitis was assessed before starting a regular injection program by using the protocol. The results of this study were as follow:

1. There was no evidence of blood clotting and phlebitis in either groups.
2. There was no statistically significant difference on maintaining time of PIID between the two groups. The results of this study suggest that nurses and medication staff can use the 0.9% NSS for flushing the PIID in order to prevent blood clotting. NSS is lower in price, more comfortable, safe and requires less nursing time than heparin.