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RUNGTIVA PIMSUKKA: EFFICACY AND BACTERIAL CONTAMINATION
OF BLENDERIZED FORMULA ENTERAL FEEDING WITH REUSED COMMERCIAL
AND MODIFIED FEEDING SETS. THESIS ADVISORS: PANWADEE PUTWATANA, D.Sc.
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This quasi-experimental research aimed to compare the efficacy and bacterial contamination between reused modified and commercial feeding sets. Thirty-two patients who needed Ramathibodi Blenderized Formula (RBF) concentration of 1:1 via nasogastric tube feeding were recruited from the Eye-Ear-Nose-Throat and the Surgical wards at Ramathibodi Hospital during February to November, 1998. They were randomly assigned to get either type of feeding set. Organisms were identified by standard techniques. Patients' data were recorded on the case record forms. Thirty-one users answered the satisfactory questionnaire about feeding sets.

Results of this study revealed that the overall bacterial contamination in the reused commercial feeding set group was significantly higher than in the modified feeding set group and on the fourth day of the set used ($p < 0.01$). The contamination was not significantly different on the seventh day ($p > 0.05$). Most common bacteria were *Klebsiella pneumoniae*, *Enterobacter species* and *Bacillus subtilis*. No complication was found during the study. By using modified feeding sets, the flow rate of RBF was significantly better controllable ($p < 0.01$) and the rate of obstruction was lower ($p < 0.05$) than using commercial feeding sets. The amount of feeding was not significantly different between the two feeding sets ($p > 0.05$). The feeding set users had significantly more satisfaction with the modified feeding sets than the commercial feeding sets ($p < 0.01$). It could be concluded that nasogastric feeding with the formula as RBF, the reused modified feeding set contributed more advantages than the commercial feeding set.