

A Comparative Study of 0.15% Bupivacaine with Adrenaline Plus Fentanyl and 0.25% Bupivacaine with Adrenaline for Painless Labour

Pukrittayakamee P,M.D.* Tontisirin O,M.D.* Choompia S,M.D.*

*Department of Anesthesiology, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok 10400.

The randomized, double blind study was performed in 63 full term pregnant women whom were decided into two groups. Group I received 0.15% bupivacaine with adrenaline and fentanyl 5 g/ml. Group received 0.25% bupivacaine with adrenaline. The results demonstrated no statistical significance in age, weight, height, cervical dilatation and number of nulliparous patients ($p = 0.55-1.0$). In first stage of labour, the proportion of patients having pain score zero determined at 30 minutes after first dose was significantly higher in group I ($p = 0.04$) and the proportion of patients having no motor block (Bromage score =0) in group I was also significantly higher ($p = 0.04$). But

in the second stage of labour, the proportion of patients having pain score as well as Bromage score zero (no pain and no block) were no statistically difference in both groups ($p = 0.62$ and 0.13). Besides, there were no statistic significances in modes of delivery, neonatal apgar score and side effects between two groups ($p = 0.51$ and 0.68).

Key words : Bupivacaine, fentanyl, painless labour