Author's response to reviews

Title: Comparing Parecoxib and Ketorolac as Preemptive Analgesia in Patients Undergoing Posterior Lumbar Spinal Fusion: A Prospective Randomized Double-Blinded Placebo-Controlled Trial Koopong Siribumrungwong *, 1: koopongs@hotmail.com Julin Cheewakidakarn 1 : chulin_c@hotmail.com Boonsin Tangtrakulwanich 1 : boonsin.b@psu.ac.th Sasikaan Nimmaanrat 2 : snimmaanrat@yahoo.com *Corresponding author 1 Department of Orthopedic Surgery and Physical Medicine, Faculty of Medicine, Prince of Songkla University, Hat Yai, Songkla, Thailand, 90110 2 Department of Anesthesiology, Faculty of Medicine, Prince of Songkla University, Hat Yai, Songkla, Thailand, 90110

Authors:

Koopong Siribumrungwong M.D. (koopongs@hotmail.com)
Julin Cheewakidakarn M.D. (chulin_c@hotmail.com)
Boonsin Tangtrakulwanich M.D., Ph.D. (boonsin.b@psu.ac.th)
Sasikaan Nimmaanrat M.D. (snimmaanrat@yahoo.com)

Version: 4 Date: 13 January 2015

Author's response to reviews:

Dear Reviewer (Dr. Kitti Jirarattanaphochai)

-I already made the change in figure 2 using VNRS instead of VAS.
-I already provided the details of pain scores in table below and also added this table in the manuscript.

Time (hours)
Control Pain scores *
Ketorolac
Parecoxib
0 8.5(1.98) 6.1(3.30) 6.3(2.80)
1 6.9(2.00) 5.3(2.56) 5.9(2.09)
2 7.0(2.30) 6.2(2.85) 6.0(2.59)
3 6.0(2.16) 6.0(2.97) 6.0(2.58)
4 6.0(2.37) 5.7(2.58) 6.3(1.84)
6 5.8(2.25) 5.7(2.34) 6.0(1.53)
12 4.8(2.40) 5.2(2.10) 5.6(1.84)
18 5.0(2.24) 5.4(2.34) 5.2(1.79)
Dear Reviewer (Dr. Surachai Sae-Jung)

1. The intervention which patient received had different amount. How the investigator blinded the patients or personnel?

We blinded the surgeon, patient and the data collector but did not blind the anesthesiologists because they will prepare the preemptive medication. But the anesthetic technique was standardized among the participating anesthesiologists.

And we diluted the preemptive medication in the equal amount as 10 cc.

2. Statistical analysis: In 3 groups comparison, normal continuous data, the ANOVA will be used for overall analysis and follow by independent t-test (with some correction such as Bonferroni correction) for comparison between each 2 groups. Like 3 groups comparison of non-normal distribution data, the Kruskal Wallis test will be used for overall analysis and follow by Mann-Whitney U test (with significance level correction) to ensure the statistical significance is not by chance.

We used Shapiro-wilk test to check the distribution of the data. If the continuous data was normal distributed then we used ANOVA for compare among three groups and independent t test for compare between each 2 groups. If the continuous data was not normal distributed then we used Kruskal Wallis test for compare among three groups and Mann-Whitney U test for compare between each 2 groups.

3. In table 2, the VAS might be replaced with VNRS

I already replaced the VAS by VNRS.

Sincerely,
Dr. Koopong Siribumrungwong
Department of Orthopaedics
Faculty of Medicine
Prince of Songkla University