



# EFFECT OF PREOPERATIVE SUBMUCOSAL INJECTION OF SUBTHERAPEUTIC DOSE OF DEXAMETHASONE AFTER SURGICAL REMOVAL OF LOWER THIRD MOLAR IMPACTION

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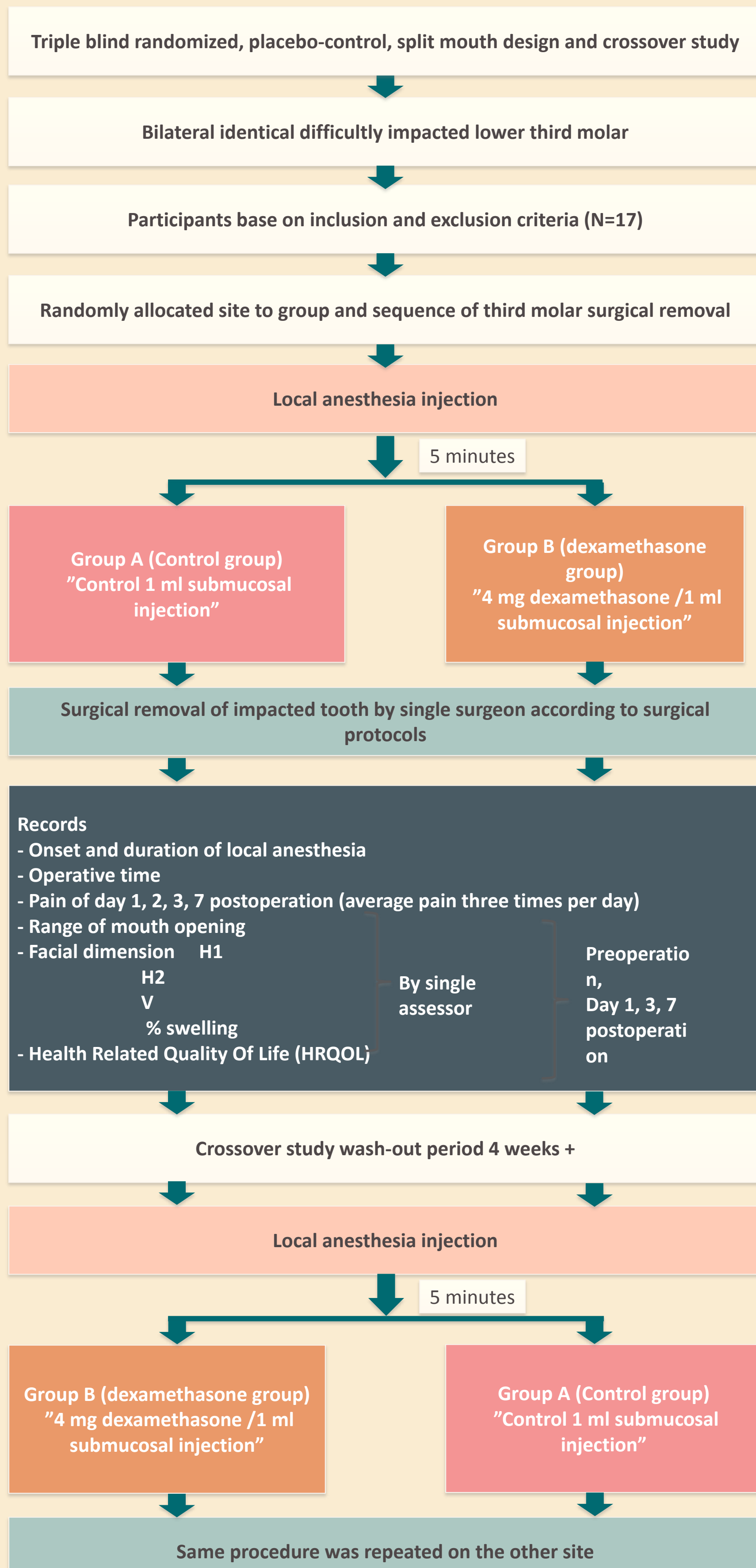
## INTRODUCTION

Corticosteroids, especially dexamethasone, are recommended used to reduce specific complications after third molar surgery. However, there is still no consensus on route, dosage and timing of administration of dexamethasone. Some literature shows that the effect of 4 mg was compatible to those using therapeutic dose (8 mg). Recently, single subtherapeutic dose of tend to equipment benefits and minimize systemic effect. Therefore, 4 mg dexamethasone may be helpful in reduce unpleasant consequences of oral surgery.

## OBJECTIVE

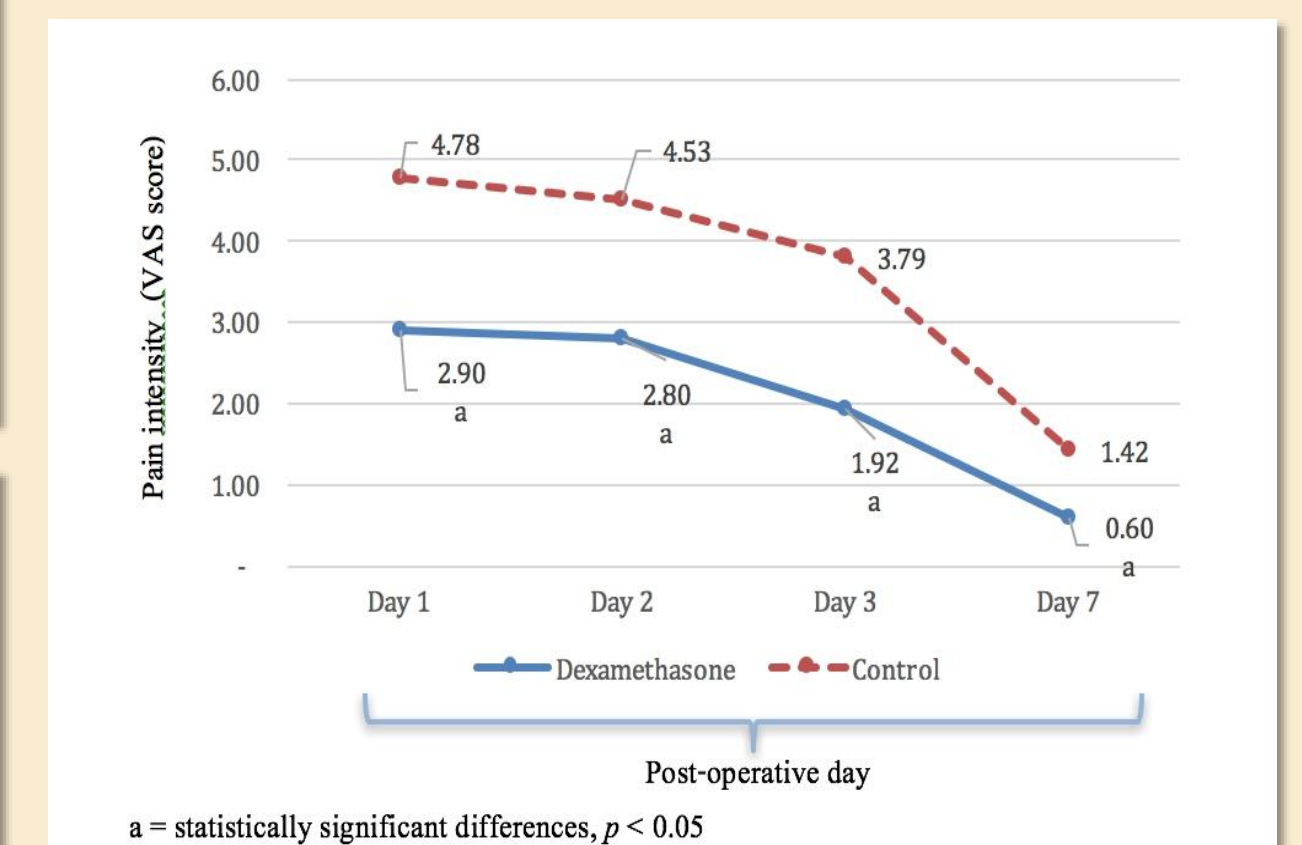
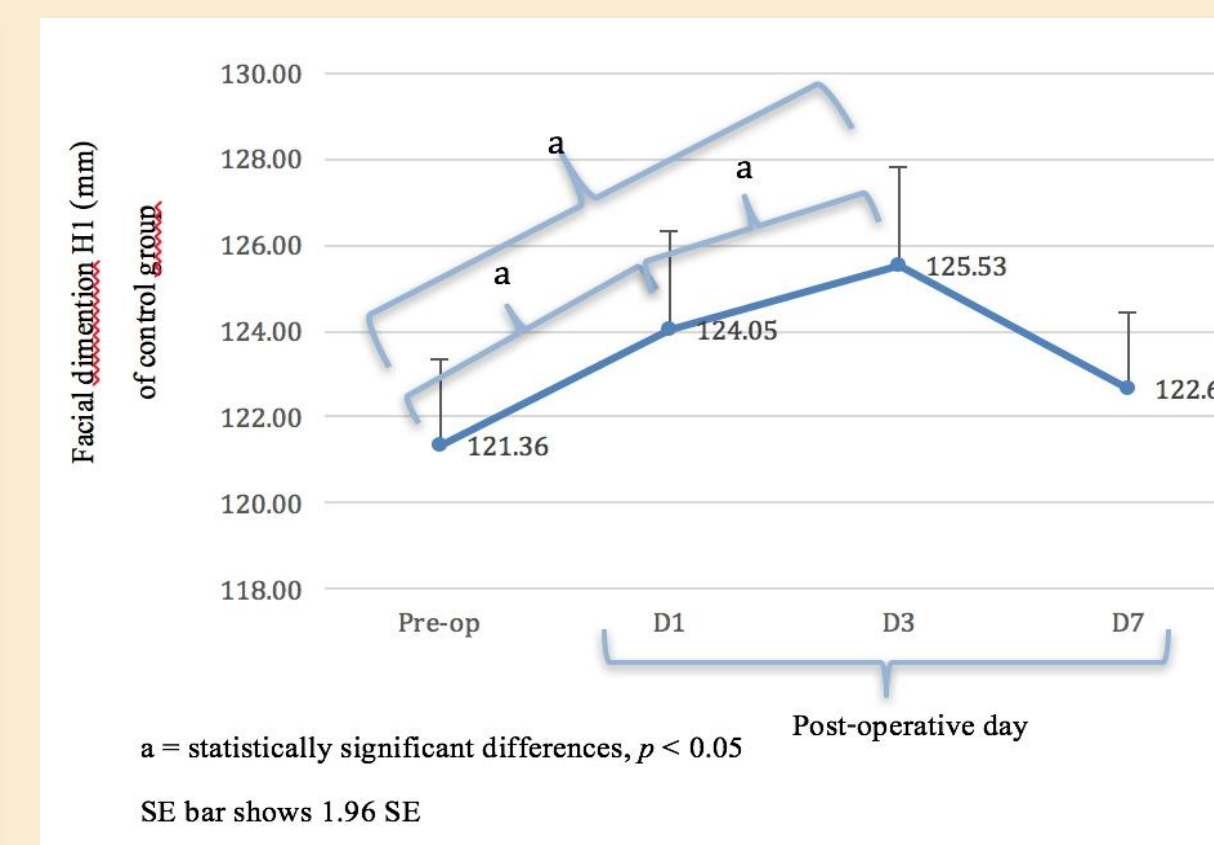
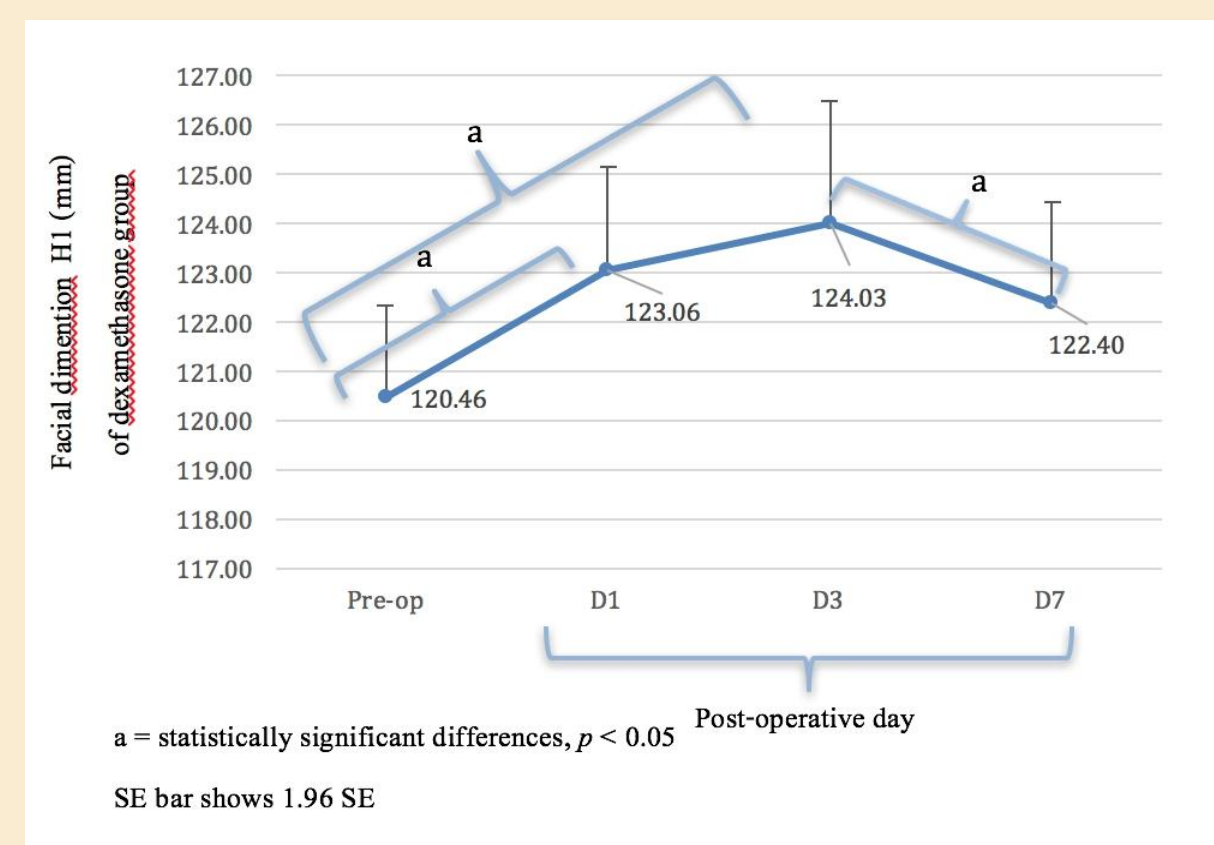
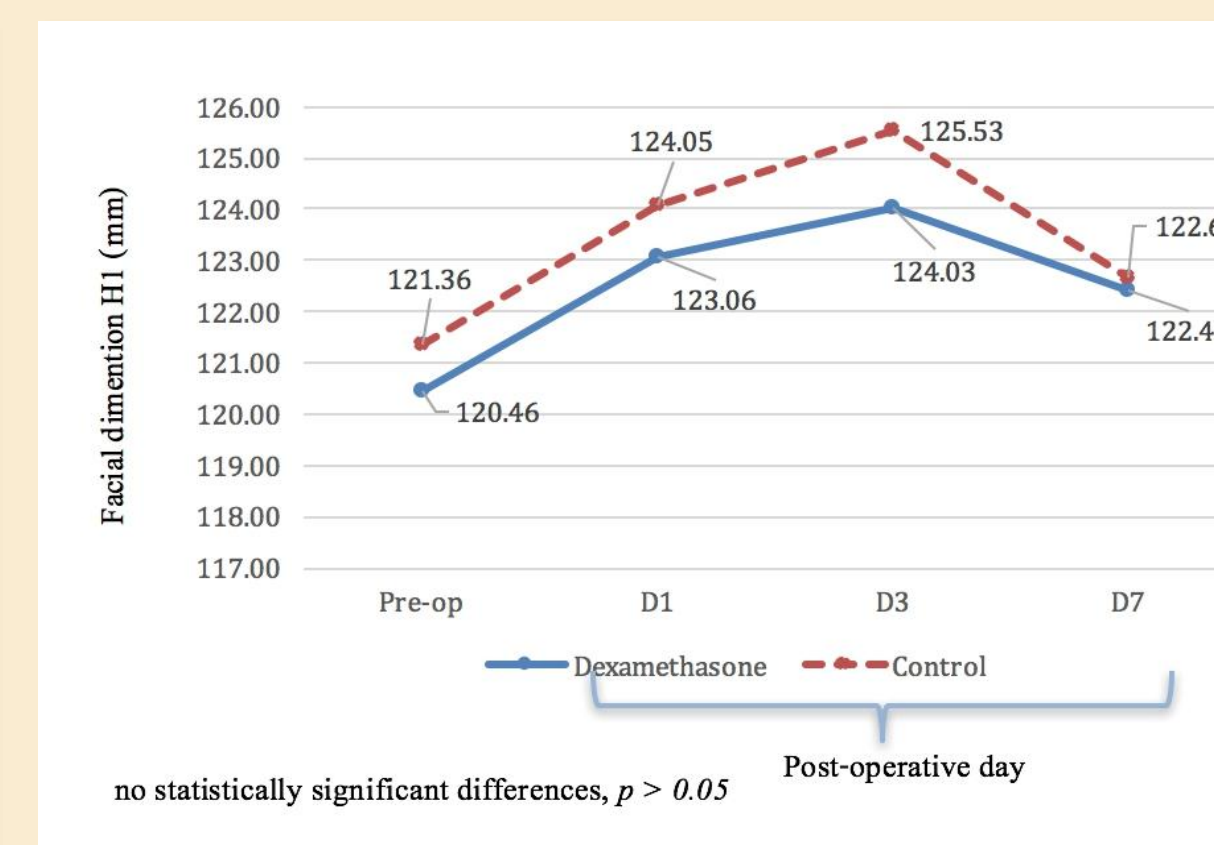
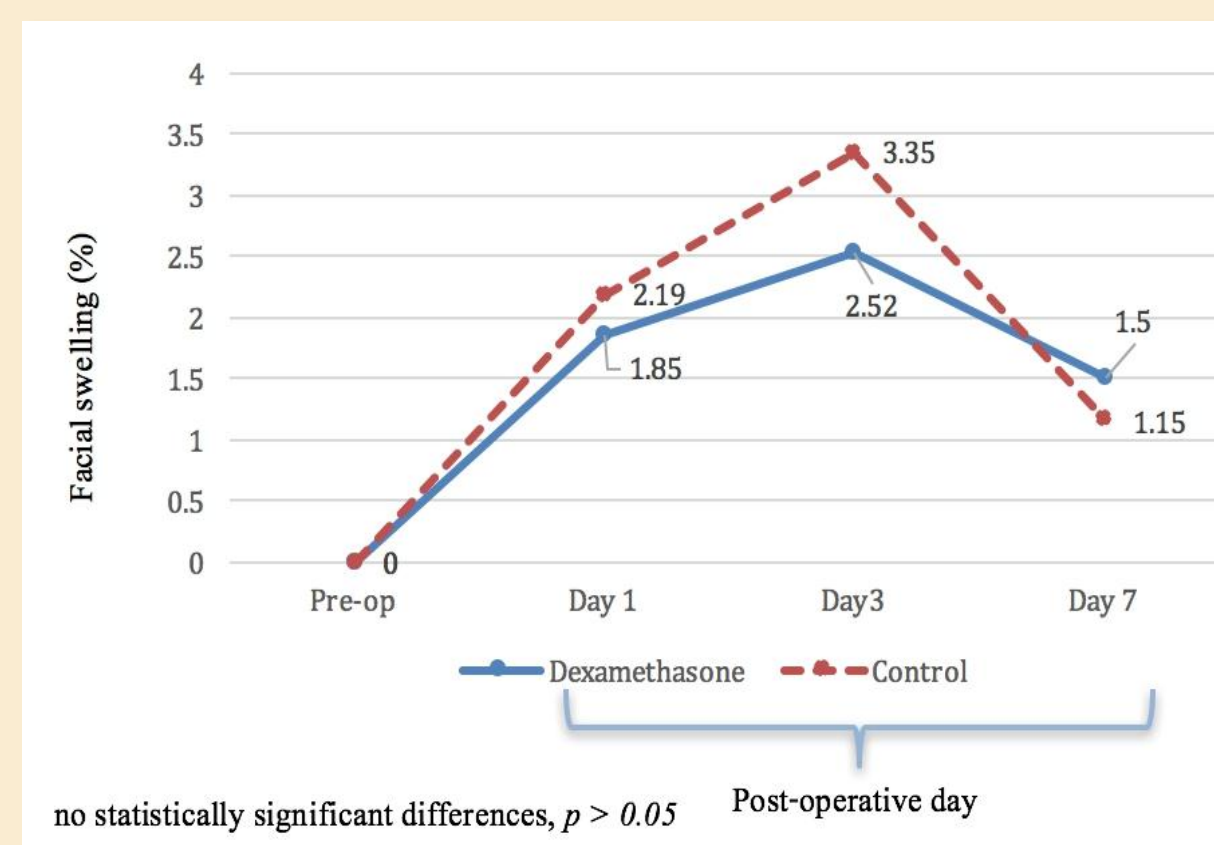
To determine the effect of 4 mg preoperative dexamethasone given by submucosal injection on lower third molar surgery.

## METHOD



## RESULTS

17 participations, 3 males and 14 females, were enrolled in the study. Facial dimension was presented with H1 line in dexamethasone group showed better result than the control group but no significant difference,  $p < 0.05$ . However, H1 in dexamethasone group revealed a significant lesser swelling from Day 1 to Day 3 compared to control group,  $p < 0.05$ . Significantly less pain were shown on Day 1 and Day 3. Mouth opening was comparable in both groups. Dexamethasone group revealed better quality of life than control group,  $p < 0.05$ .



## DISCUSSION

The age, gender, and type of impaction were not significantly difference in both groups during postoperative sequelae because most of participants were female. All of them had almost the same age. The type of impactions were the same in each individual participants.

The pain was statistically significantly lesser on day 1, day 2, day 3 and day 7 ( $p < 0.05$ ) compared to the control group. All of the data such as time is correlated to Grossi et al, Al-Shamiri et al, Warraich et al and many previously studies, which showed that dexamethasone can reduced pain effectively. This study found that onset and duration of local anesthesia showed no statistically significant difference ( $p > 0.05$ ) between the control and study group.

## CONCLUSIONS

Preoperative submucosal of 4 mg Dexamethasone injection can reduce pain, improve quality of life and tend to reduce facial swelling after lower third molar surgery.

## ACKNOWLEDGMENTS

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