

Official title Effect of Sufentanil and Ropivacaine

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Table 1. Characteristics of parturients in labour analgesia

| Monitored Variables | Ropivacaine (n=30) | Sufentanil (n=30) | t | P |
|-----------------------------|-------------------------------|------------------------------|----------|----------|
| Age (yr) | 29.17±2.49 | 29.40±3.54 | -0.295 | 0.769 |
| Height (cm) | 162.1±5.07 | 161.9±5.12 | 0.127 | 0.900 |
| Weight (kg) | 67.0±7.19 | 67.9±7.62 | -0.523 | 0.603 |
| active stage (min) | 393.7±139.07 | 363.93±157.79 | 0.775 | 0.441 |
| Second stage of labor (min) | 64.30±39.21 | 69.67±34.68 | -0.561 | 0.577 |
| Gestational Weeks (week) | 38.83 ± 0.91 | 38.93 ± 1.05 | -0.394 | 0.695 |

Data represent mean \pm SD, there were no significant changes in age, height, weight, gestational weeks, active stage and second stage of labor between two groups.

Statistical analysis was performed by using paired t-test.

Table 2 Side effect and VAS score for two groups (n=30)

| Complications and VAS | Ropivacaine (n=30) | Sufetanil (n=30) | χ^2/t | P |
|--------------------------|-------------------------------|-----------------------------|------------|----------|
| Nausea and vomiting/n(%) | 5 (16.7) | 4(13.3) | 0.131 | 0.718 |

| | | | | |
|--------------------------------------|---------------|---------------|--------|-------|
| Pruritus/n(%) | 1 (3.3) | 1(3.3) | - | - |
| Hypotension/n(%) | 0 | 0 | - | - |
| Respiratory depression/n(%) | 0 | 0 | - | - |
| VAS Before labor analgesia | 8.13±1.76 | 8.33±1.27 | -0.360 | 0.721 |
| VAS for 30 min after labor analgesia | 2.70±1.77**** | 2.80±1.56**** | -0.232 | 0.817 |
| VAS for 60 min after labor analgesia | 1.37±1.54**** | 1.53±1.61**** | 0.140 | 0.889 |
| VAS for Full dilatation of cervix | 3.53±2.05**** | 3.83±1.68**** | -0.809 | 0.422 |
| VAS for Fetal delivery | 2.80±1.88**** | 3.30±1.62**** | -0.759 | 0.452 |

All data are shown as number or mean \pm SD, **** Significantly different compared with VAS before labor analgesia ($P < 0.0001$). Statistical analysis was performed by using paired t-test in comparison to Sufetanil group.

Table 3 Maternal and fetal hemodynamic data for two groups (n=30)

| Group | Different time points | Systolic pressure / mmHg | Diastolic pressure / mmHg | Heart rate / bpm | Fetal heart rate / bpm |
|-------------|------------------------------|--------------------------|---------------------------|------------------|------------------------|
| Ropivacaine | Before labor analgesia | 124.50±13.43 | 76.17±7.81 | 84.00±12.80 | 141.07±9.43 |
| | 60 min after labor analgesia | 119.37±9.01 | 72.50±6.65 | 79.83±13.06 | 138.87±8.94 |
| | Before labor analgesia | 120.57±13.41 | 73.93±9.55 | 81.00±11.17 | 136.83±10.61 |
| Sufetanil | 60 min after labor analgesia | 116.89±12.80 | 71.21±9.32 | 78.00±11.35 | 135.79±10.10 |

Statistical analysis was performed by using paired t-test in comparison to

Sufetanil group. There were no significant change between two groups($P > 0.05$).