

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)	<i>t</i>	<i>P</i>
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 ± 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)	Sufentanil (n=30)	χ^2/t	<i>P</i>
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
Sulfetanil	Before labor analgesia	120.57±13.41	73.93±9.55	81.00±11.17	136.83±10.61
	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($P > 0.05$).