

Table 12. Means and standard errors for total abstinence scores and total sickness scores obtained in 24 hour substitution tests in 4 subjects where morphine, placebo and butorphanol were substituted for 3 consecutive 15 mg doses of morphine. Total abstinence or total sickness scores are the sum of scores from all 11 observations.

<u>DRUG</u>	<u>ABSTINENCE SCORE</u>	<u>SICKNESS SCORE</u>
Placebo	189.6 $\pm$ 25.0	10.4 $\pm$ 2.2
Morphine 3 mg	154.2 $\pm$ 24.4	10.0 $\pm$ 0.8
Morphine 6 mg	130.2 $\pm$ 19.0 ^{.025}	4.6 $\pm$ 2.0 ^{.025}
Butorphanol 0.6 mg	154.4 $\pm$ 8.2	6.2 $\pm$ 1.8 ^{.05}
Butorphanol 1.2 mg	163.2 $\pm$ 35.6	6.8 $\pm$ 2.0 ^{.1}

Superscripts are levels of significance for the difference from placebo as calculated using 2-way analysis of the variance (subjects X treatments) and the method of least significant differences.