Azidomorphine produced dose-related morphine-like subjective effects and miosis, as shown by the decreases in pupil size and elevated MBG Scale scores, Opiate Signs and Symptoms scores and Subjects' and Observers' "liking" scores (Fig. 5). Both azidomorphine and morphine had similar profiles (Table 2) and azidomorphine was consistently identified as an opiate (Table 3). Relative potency calculations, meeting the statistical criteria for valid bioassays, indicate that azidomorphine bitartrate is 10 to 50 times more potent than morphine sulfate (Table 4). Comparison of the time action curves for the effects of azidomorphine 1.8 mg; morphine 30 mg; and placebo on these same measures indicates that azidomorphine may have a more rapid onset and a shorter duration of action than morphine (Fig. 6).

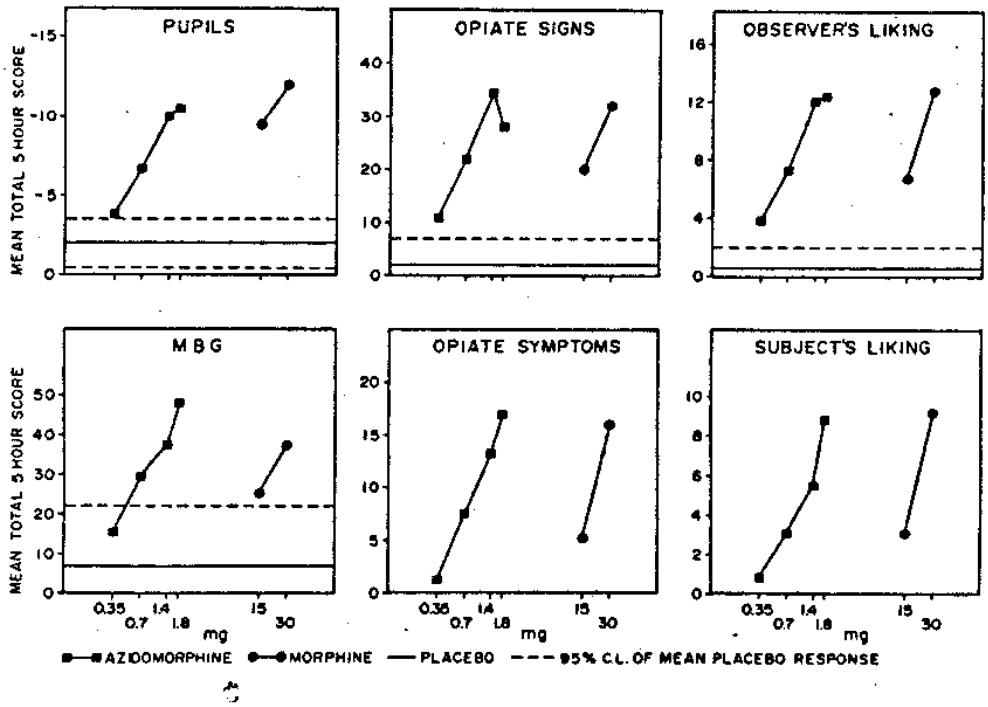

Figure 5. Dose-response curves utilizing total 5 hour sums from the comparison of azidomorphine, morphine and placebo.