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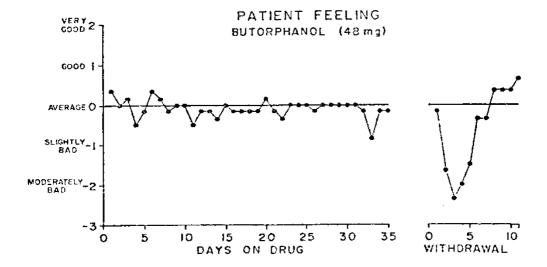


Figure 3. Mean daily responses by six subjects to the question "How do you feel?" during the chronic administration and with-drawal of butorphanol.

Significant Hirmelsbach scores were obtained following buterphanol withdrawal reaching its peak on the 3rd day and subsiding (Fig. 4) with an intensity slightly greater than produced by pentazocine but less than morphine. Analysis of the sources of points in the Himmelsbach score indicated that buterphanol more closely resembled cyclarocine abstinence than morphine abstinence (Table 4).