DEVIEW BOARD INFORMATION SHEFT

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NO. FIGUR The rate and pattern of lever pressing were studied in twelve rats during 24-hour sessions in which responding resulted in an intravenous infusion of nicotine. Lever pressing was shown to be established and maintained by the response-nicotine contingency. Following prolonged nicotine intake (2.0 - 3.5 response-nicourne contingency. Following prolonged nicotine intake (2.0 - 3.5 mg/kg/session for 10-20 sessions), saline substitution did not result in overt signs of physiological dependence. Effects of 8.0, 16.0, 32.0, and 64.0 vg/kg/sinfusion of nicotine and of fixed ratio (FR) schedules of 1-8 responses per infusion were determined on response rate and nicotine intake. Under an FR 1 schedule, the number of infusions first increased then decreased as the dose of principle was decreased (60.0 - 8.0 vg/kg/infusion). Nicotion intake of nicotine was decreased (64.0 - 8.0 µg/kg/infusion). Nicotine intake (mg/kg/24-hr) was directly related to the infusion dose. As the FR size was increased from 1-6, the number, of lever presses increased and the number. of infusions per 24-hour session (32.0 µg/kg) remained relatively constant. At ratio values greater than six, both the number of lever presses and infusions decreased. These results show that nicotine can function as a positive

compared to other intravenously delivered reinforcers. In addition, the present results extend previous work showing that termination of prolonged exposure to

reinforcer for rats, and that the reinforcing effect is relatively weak

nicotine does not result in a physiological dependence.

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