

MANUSCRIPT REVIEW BOARD INFORMATION SHEET

MANUSCRIPT TITLE: Absence of deleterious behavioral effects following withdrawal from chronic nicotine administration in rats.

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FIGURES:

TABLES:

ABSTRACT

The effects of nicotine on schedule-controlled behavior have been studied less intensively than the effects of other commonly used compounds. Most nicotine studies have investigated its acute behavioral effects of that compound in rats and monkeys. Less is known about the termination of chronic nicotine administration on schedule-controlled behavior. Chronic administration of a variety of psychoactive agents results in physical dependence. Physical dependence is generally characterized by abstinence symptoms when drug intake is abruptly terminated or when an antagonist is administered. Several laboratories have shown that behaviors maintained under various schedules of reinforcement are highly sensitive to the effects of physical dependence, and drugs from a number of pharmacological classes have been investigated. However, there is a dearth of information about the potential physical dependence producing properties of nicotine. In research reported here we investigated the effects of antagonism of chronic nicotine administration on lever pressing by rats maintained under a multiple fixed ratio-fixed interval schedule of food presentation. The results show that antagonism of chronic nicotine administration does not disrupt schedule-controlled behavior suggesting that physical dependence does not develop to chronic nicotine exposure.

PATENT STATUS: Applied for Patented Not Filed x

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