

How Nicotine Withdrawal  
**AFFECTS**  
THINKING, FEELING,  
and BRAIN ACTIVITY

Cocaine Ecstasy Heroin Marijuana  
**NICOTINE** Teens Comparison

**What is the purpose of the study?**

To compare the effects of nicotine-free cigarettes, nicotine cigarettes, or not smoking.

**Who can participate in the study?**

This study is accepting **men only** who:

- Are 18 to 50 years of age
- Smoke cigarettes

**What will participants be asked to do?**

The study lasts for 16 days in a row.

Participants will:

- Be required to go to the research center for 14 of the 16 study days, but 7 of those study visits are for an hour or less
- Need to prepare for the possibility of stopping smoking or smoking for 8 days in a row
- Participate in 10 MRI brain scans during 5 study visits
- Complete several questionnaires and computer-based thinking tasks at each study visit

**Where is the study taking place?**

The NIDA Intramural Research Program is located on the Johns Hopkins Bayview Medical Center campus in East Baltimore.

**How much does it cost?**

There is no charge for study-related medical care, including study visits and procedures.

**Will I receive payment of some kind?**

All study participants will be compensated for their time and travel.

**How can I find out if I'm eligible to participate?**

Call 1-800-535-8254 for a confidential screening.