The background of the image is a solid dark blue color. Overlaid on this background are several diagonal stripes of a lighter blue color, running from the top-left towards the bottom-right. These stripes are spaced out and create a sense of movement and depth. In the center of the image, there is a white rectangular box with a thin black border. Inside this box, the text 'NIDA' is written in a large, white, serif font. Below 'NIDA', the words 'NATIONAL INSTITUTE' and 'ON DRUG ABUSE' are written in a smaller, white, sans-serif font, stacked on two lines. The entire logo is centered within the white box.

NIDA

**NATIONAL INSTITUTE
ON DRUG ABUSE**

Minda R. Lynch, Ph.D.

Branch Chief

Behavioral and Cognitive Sciences Research Branch

Division of Neuroscience and Behavioral Research

National Institute on Drug Abuse

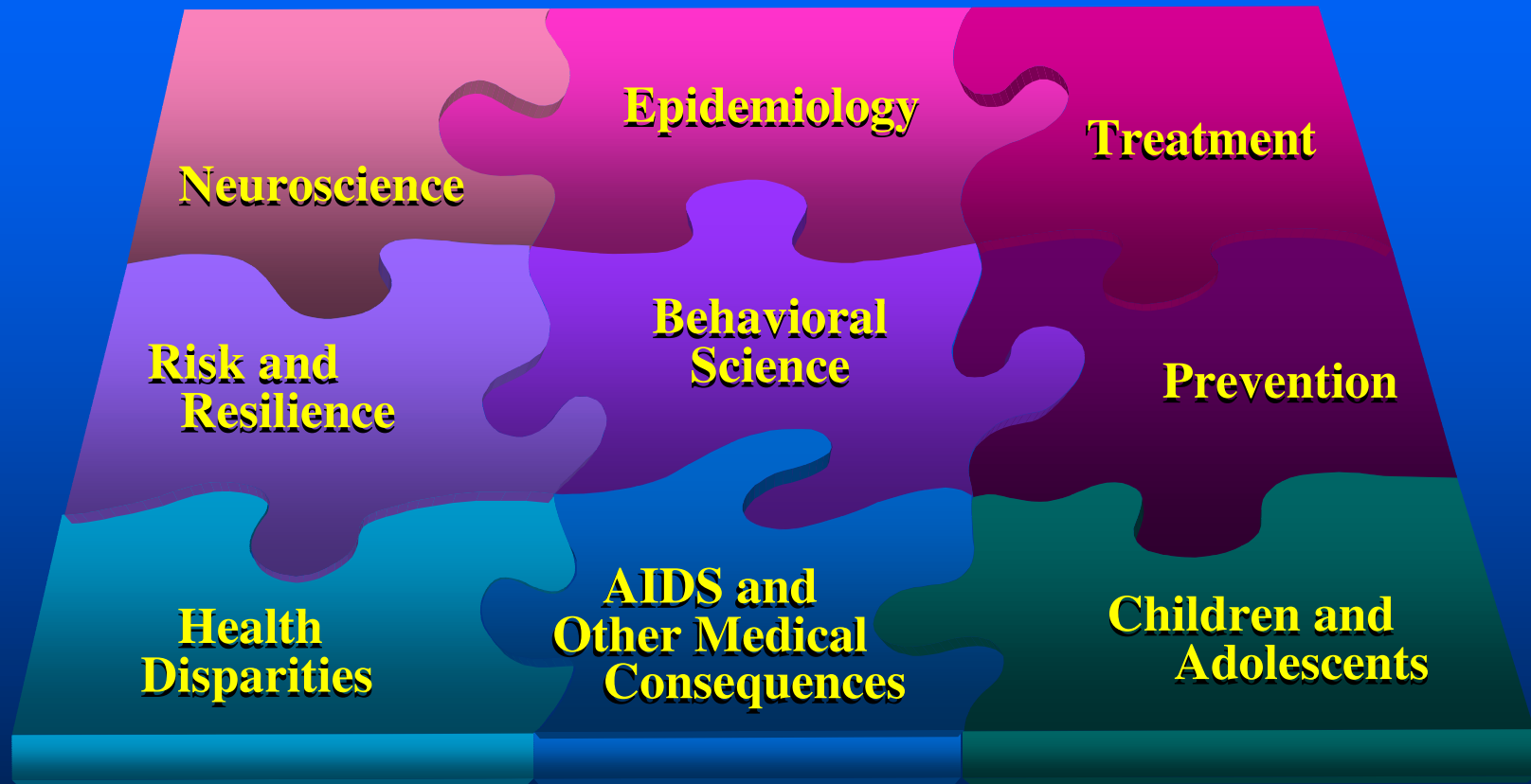
National Institutes of Health

Department of Health and Human Services

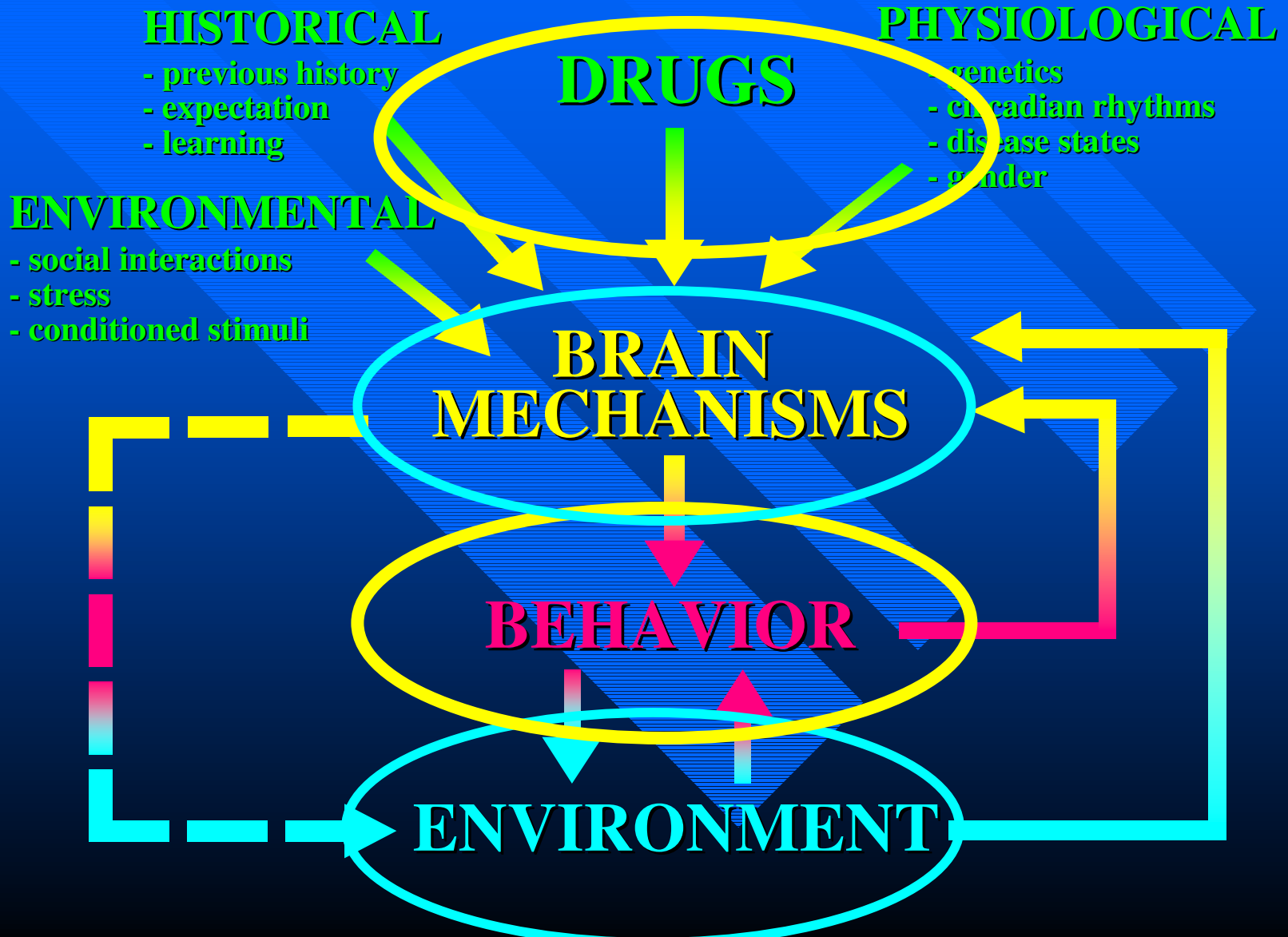
E-mail: mlynch1@nida.nih.gov

The background of the slide is a solid blue color with several diagonal stripes of a slightly lighter shade of blue running from the top-left to the bottom-right. The stripes are spaced evenly and create a dynamic, geometric pattern.

**NIDA Supports More Than 85% of the
World's Research on the Health Aspects
of Drug Abuse and Addiction**

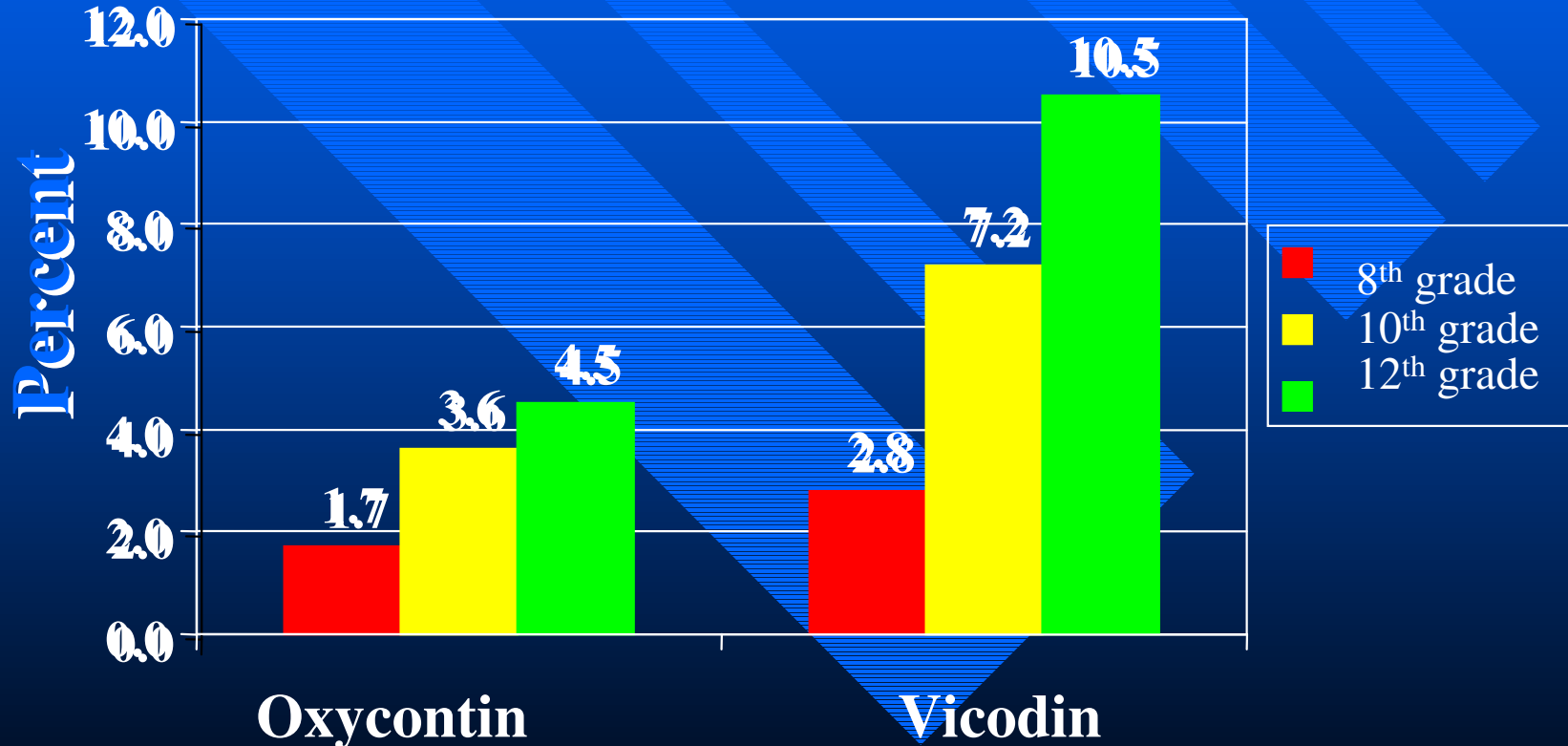


Drug Addiction: A Complex Behavioral and Neurobiological Disorder



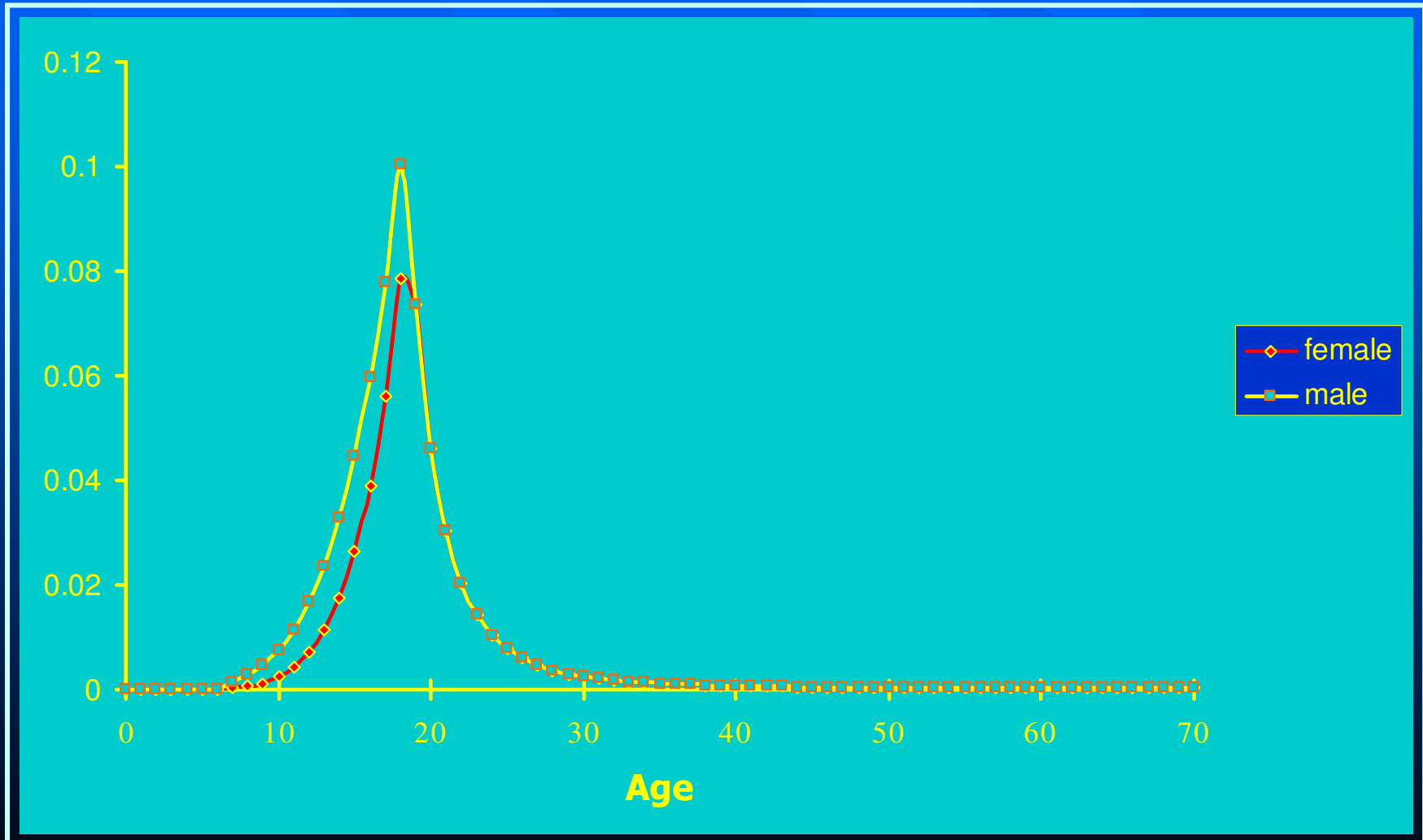
Percent of Students Reporting Abuse of Pain Killers in Past 12 Months in 2003

WORRISOME NEWS

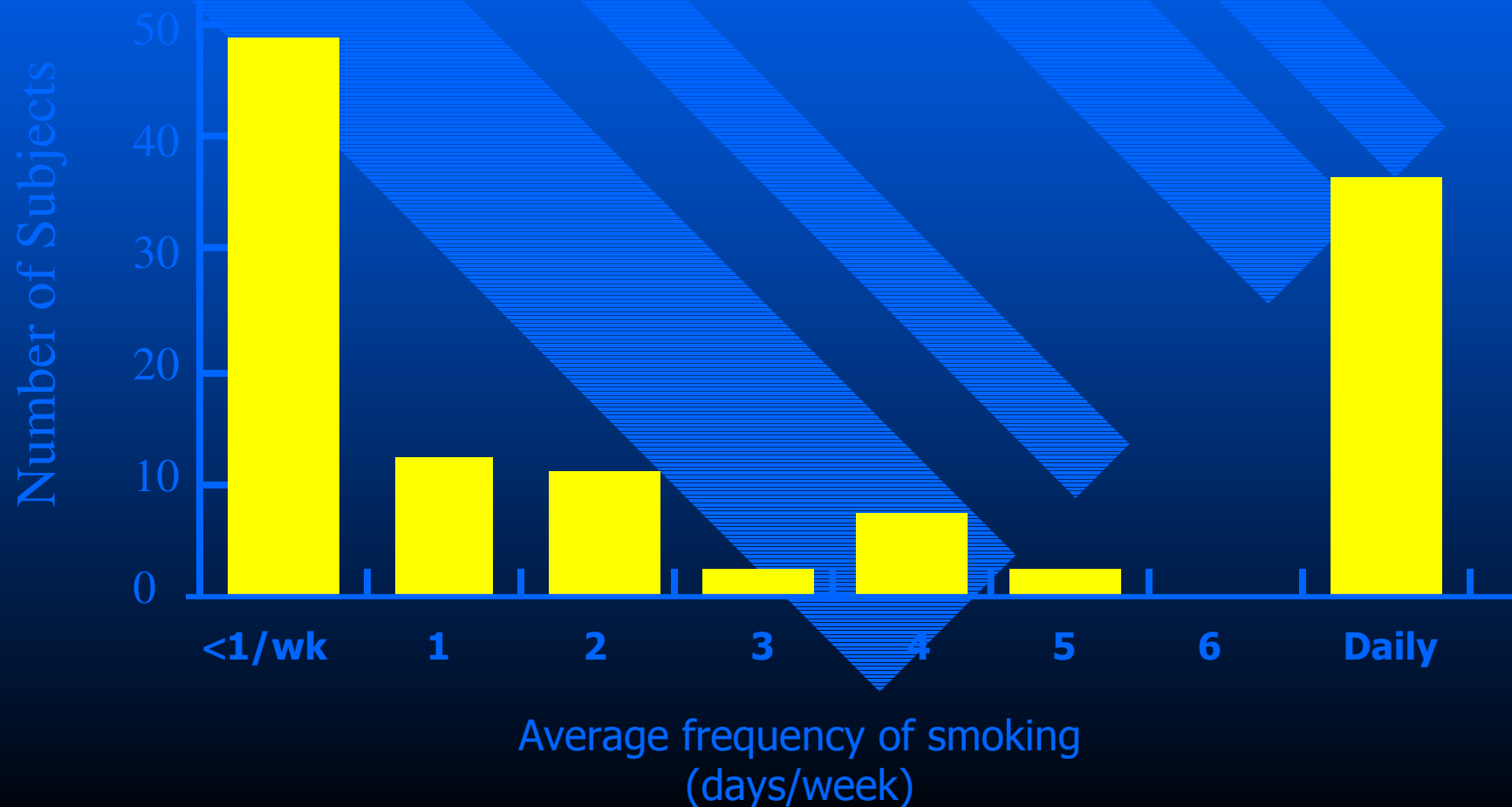


Source: Monitoring the Future Study, 2003

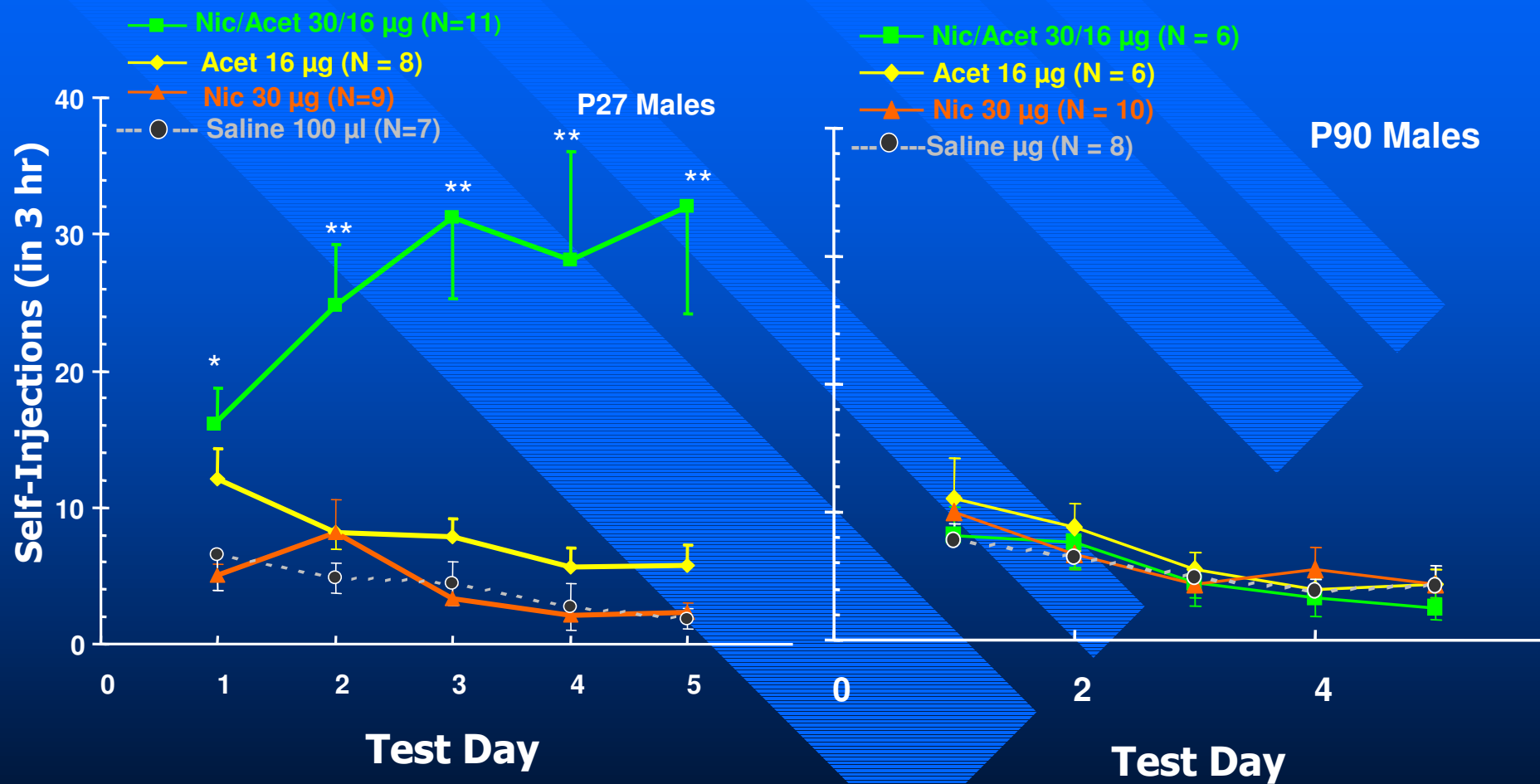
Probability of Initiation



Adolescence: Dependence after "occasional" smoking



Highly Rewarding Effect of Nicotine/Acetaldehyde During Adolescence



NIDA's Adolescence Research Interests



Adolescent Research Interests

n Health Services and Treatment Research

- Broaden Youth Access
- Improve treatment delivery
- Target different developmental stages (Maturation and drug use trajectory)
- Test combined behavioral and pharmacotherapeutic treatments
- Translate clinical treatments into community interventions
- Pregnancy , Drug Use and HIV (RFA, Dec 2003)

Additional Treatment Interests

- n Adolescents with co-morbid alcohol and drug use disorders (PA, Feb 2004)
- n Medications development for cannabis abuse (RFA, Dec 2003)
- n Behavioral therapies development program: “Address unique needs and perspectives of adolescents” (PA, May 2003)
- n Tobacco treatment: Translational research (RFA, Dec 2002)

Epidemiology and Prevention

- n Children exposed to violence (Multi-Institute PA, April 2003)
- n Youth in primary health care settings: Screening, brief intervention, integration into services (RFA, Dec 2003)
- n “Emerging Adulthood” (Critical periods and social transitions, ages 18-25) RFA, Dec 2003
- n Child psychopathology and subsequent SUDs: Mechanisms, vulnerability and interventions (RFA, Oct 2002)
- n Youth, the Internet, and Drug Use: NIDA Workshop, June 2002

HIV/AIDS and Drug Abuse in Adolescents

Programmatic Strategies

- **Multi-Institute Collaborations: NICHD, NIAAA, NIMH**
 - **Natural History Multi-Site Study**
 - **Adolescent Trials Network**
 - ◻ **Multi-Site Interventions Research**
 - ◻ **Infrastructure to Promote New R01s**

Adolescent HIV/AIDS Research

- n “Highly vulnerable” youth (RFA, Jan 2004)
 - Youth at high risk for HIV and other infectious diseases, living with HIV/AIDS, or affected by HIV/AIDS (family, orphaned, etc.)
 - Risky social environments
 - Homeless
 - Vulnerable communities

HIV/AIDS con't

- n Drug abuse and HIV prevention in youth (RFA, Jan 2003)
 - General population
 - Contextually appropriate
 - Heightened risk groups
 - Stigma
 - Non-sexual antecedents
 - Multi-component programs

A Developmental Perspective: Questions for Basic Research

- n How is experience/drug exposure incorporated into the developing nervous system?
- n How do biological/genetic processes interact with environmental factors to affect development of self-regulatory capacities and other behaviors?
- n What are the gene-environment interactions that underlie the development of behavior and contribute to differential risk and resilience for drug addiction?
- n What are the mechanisms?

Basic Research: Behavior, Cognition and Neurobiology

- n Summer 2002: Adolescent Decision-Making Meeting – Proximal Processes in Drug Abuse
 - (M. Lynch, K. Etz, C.L. Wetherington and S. Rao, Co-organizers)
- n Fall 2003: NIDA Support of NYAS Meeting on Adolescent Brain Development
 - (Behavioral and Cognitive Science Research Branch, Division of Neuroscience and Behavioral Research)

Basic Research: Behavior, Cognition and Neurobiology

- n “Behavioral and Cognitive Processes Related to Adolescent Drug Abuse”, RFA, Oct 2003.
 - Judgement/Risk estimation
 - Decision-making: Analytical or heuristic
 - Escalation to compulsive, uncontrollable use
 - Acute and chronic drug effects
 - Proximal processes
 - Executive functions: inhibition, attention, etc.
 - Affect and emotion (e.g., hot/cold cognition)

“Behavioral and Cognitive Processes Related to Adolescent Drug Abuse”, con’t.

- Motivation/reward “sensitivity”
- Computational models
- Stress/environmental demands
- Information processing: Automatic or controlled
- Self-regulation
- Neurobiological substrates and processes
- Social context
- Co-morbidity

Additional “Basic Research” Interests

- n Neuroimaging drug effects on development of the nervous system (RFA, Feb 2003)
- n Marijuana on the developing brain (RFA, Jan 2004)
 - Executive function, learning and memory
 - Motivation and emotion
 - Indicators of “escalation”
 - Features of resiliency
 - Prior alcohol or tobacco use
 - Co-morbid mental disorders
 - Psychiatric medications
 - Circadian/homeostatic effects

Basic Research con't

- n Developmental psychopharmacology (PA with NIMH, NICHD, Apr 2003)
- n Animal models (RFA, Oct 2003):
 - Neurobiological development at all levels of analysis
 - Functional consequences: Brain-behavior relationships
 - HPA axis
 - Acute and chronic drug effects
 - Critical periods
 - Species-specific differences

Visit the Child and Adolescent Workgroup Website...

www.drugabuse.gov/ICAW/ICAW.html

National Institute
on Drug Abuse

**Integrating
Child
Development
and Drug Abuse
Research**

- ◆ Career Opportunities
Program
- ◆ Child Development
and Drug Abuse
Symposium Series

April 19–22, 2001
Minneapolis, MN

SPRCD SPECIAL EVENTS
SOCIETY FOR RESEARCH IN CHILD DEVELOPMENT



Society for Research on Adolescence

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National Institute on Drug Abuse

“Jumpstart Your Career” Mentoring Program and Travel Award for SRA’s 2002 Biennial Meeting

Deadline: February 22, 2002

The National Institute on Drug Abuse (NIDA), of the National Institutes of Health (NIH), is sponsoring a small number of travel awards up to \$750 for graduate students and post-doctoral fellows to attend the NIDA sponsored “Jumpstart Your Career” mentoring program at the 2002 Society for Research on Adolescence (SRA) Biennial Meeting in New Orleans, Louisiana, April 11-14, 2002. Each travel awardee will be paired with a drug abuse researcher who will serve as a mentor throughout the SRA convention. The mentor will provide guidance in scheduling, orientation to the SRA meeting, and networking opportunities with drug abuse and adolescent investigators. This program will also feature several planned NIDA events, including:

- **Building Bridges Between Adolescent Research and Substance Abuse Research: Challenges and Opportunities**

This innovative session will bring together a panel of investigators who have successfully integrated drug abuse research into their existing programs of adolescent development research. After each panel member briefly presents research and recent findings, there will be opportunities for questions, comments, and discussion with the speakers and with NIDA staff.

- **Child and Adolescent Research Support at NIDA - A** discussion hour sponsored by the National Institute on Drug Abuse
- Pre-conference meeting with NIDA staff and NIDA-supported researchers to discuss issues of mentoring, career development, and “hot topics” in drug abuse research.