

NIAAA Minority Health and Health Disparities Research

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National Institute on Alcohol Abuse and Alcoholism Mission

- increase the understanding of how alcohol use impacts normal and abnormal biological functions and behavior **across the lifespan**
- improve the diagnosis, prevention, and treatment of alcoholism and other alcohol-related disorders
- enhance quality health care

To Support and Promote The Best Science on
Alcohol and Health For The Benefit of All



<http://pubs.niaaa.nih.gov/publications/StrategicPlan/NIAAASTRATEGICPLAN.htm>

Minority Health & Health Disparities Programs

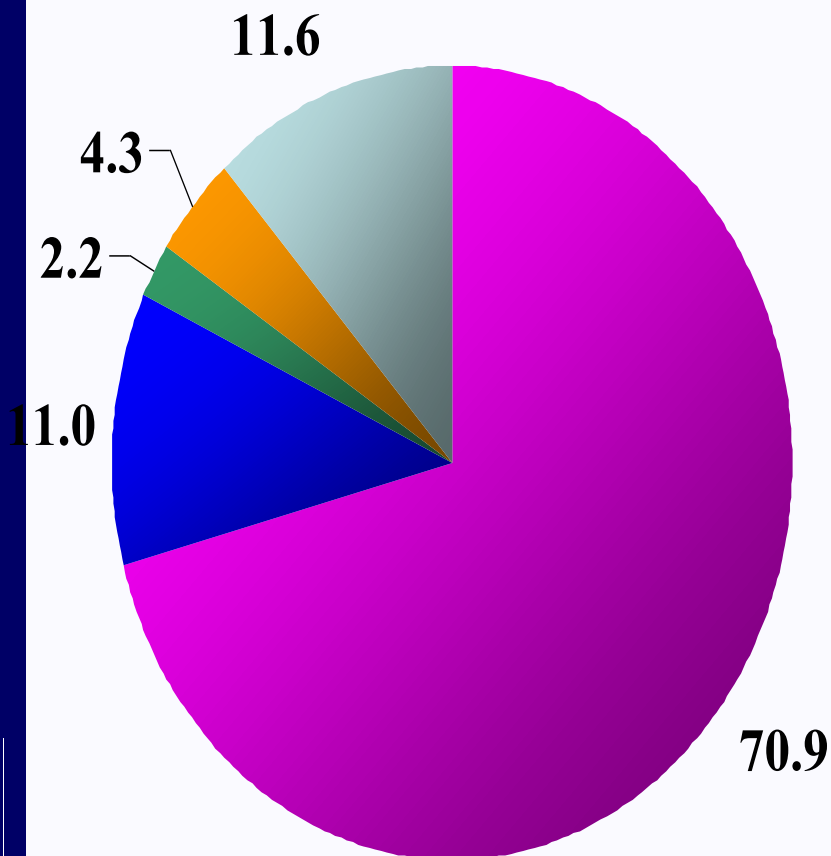
Goal to *increase understanding* of the risk and resilience factors that contribute to racial/ethnic, rural (vrs. urban) & low SES based differences in patterns of drinking, AUDs and alcohol-related problems, and *encourage and support research* on health disparities:

- ***Building the capacity of minority serving institutions and diverse investigators to conduct alcohol research***
- **Developing a body of knowledge; transferring knowledge to practice and experiential/clinical knowledge to research**
- **Building multidisciplinary, multi-ethnic collaborating teams to address specific research areas**

National Epidemiologic Survey of Alcohol and Related Conditions (NESARC)

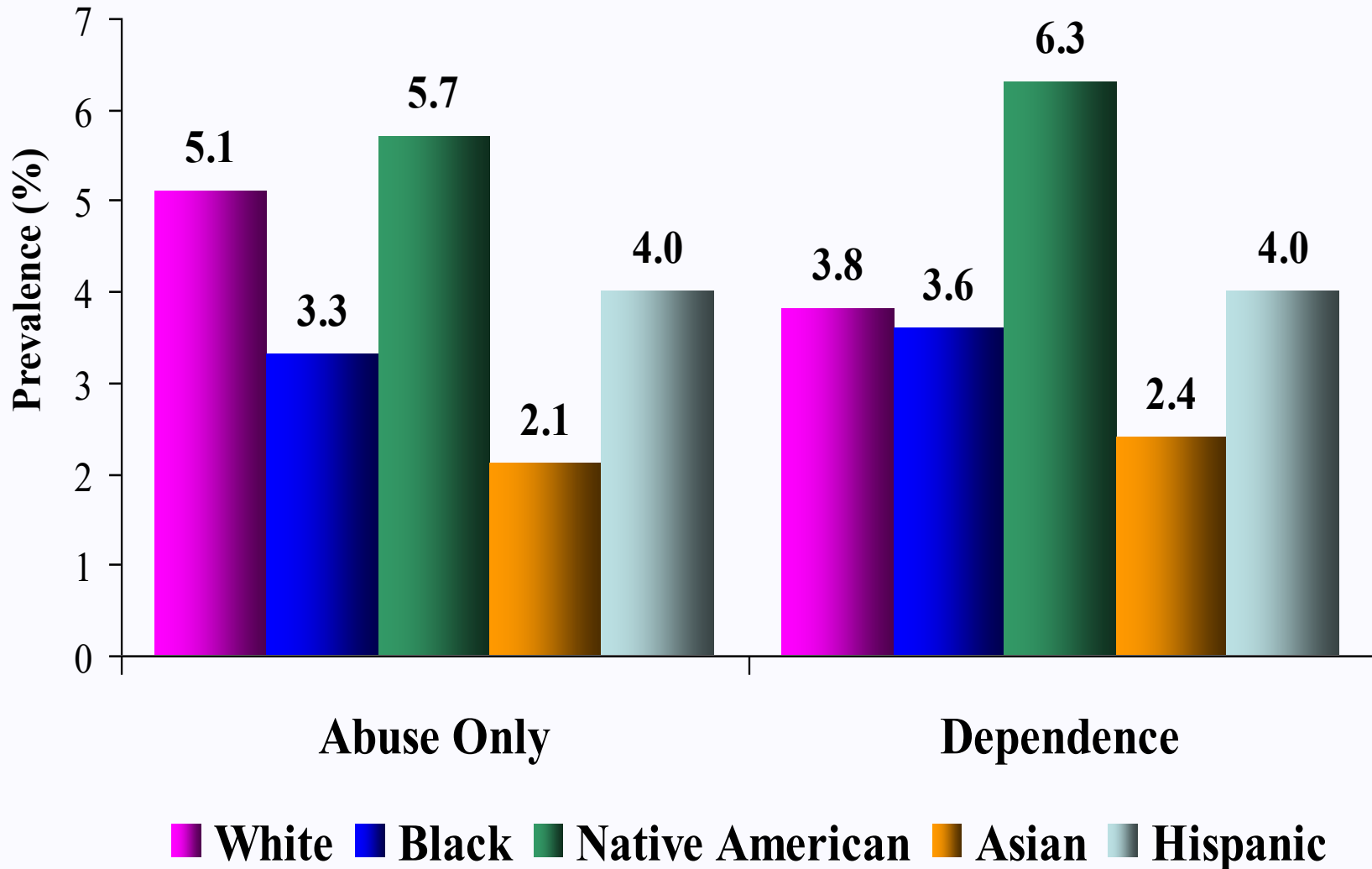
- **Nationally representative sample of U.S. adults 18+, interviewed 2001-2002 and re-interviewed 2004-2005**
- **Wave 1 response rate of 81% → N = 43,093**
- **Wave 2 re-interviewed eligible members of original sample (excluding those who had died or too ill, become institutionalized, entered the military, or left the country)**
- **Wave 2 response rate of 87% → cumulative response rate of 70% → N=34,653**
- **Wave 3 is oversampling Asian American and collecting genetic material in a new sample**

Distribution of respondents, by race-ethnicity

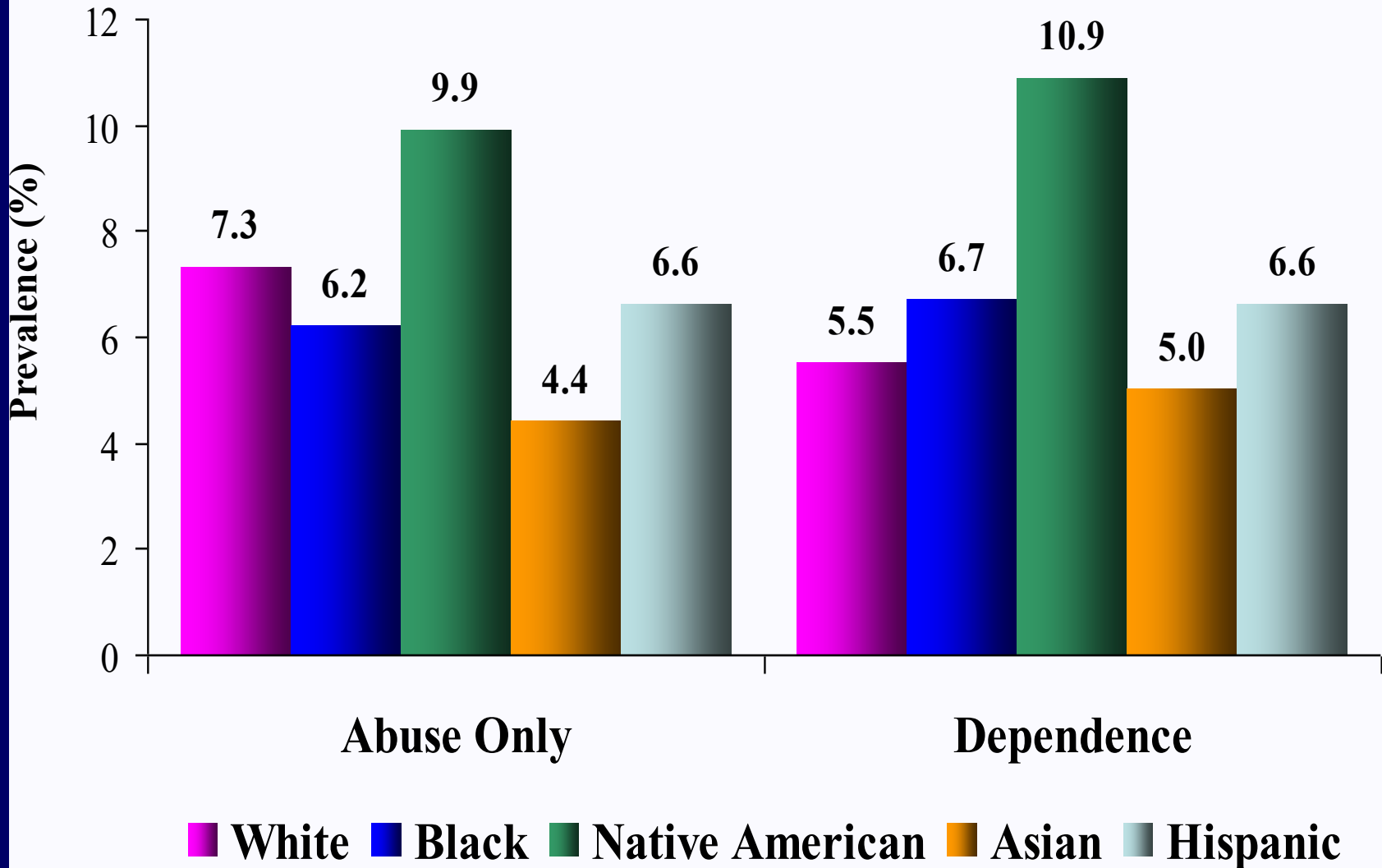


	<u>Wave 1</u>	<u>Wave 2</u>
White	24,507	20,174
Black	8,245	6,577
Nat. Am.	701	580
Asian	1,332	966
Hispanic	8,308	6,356

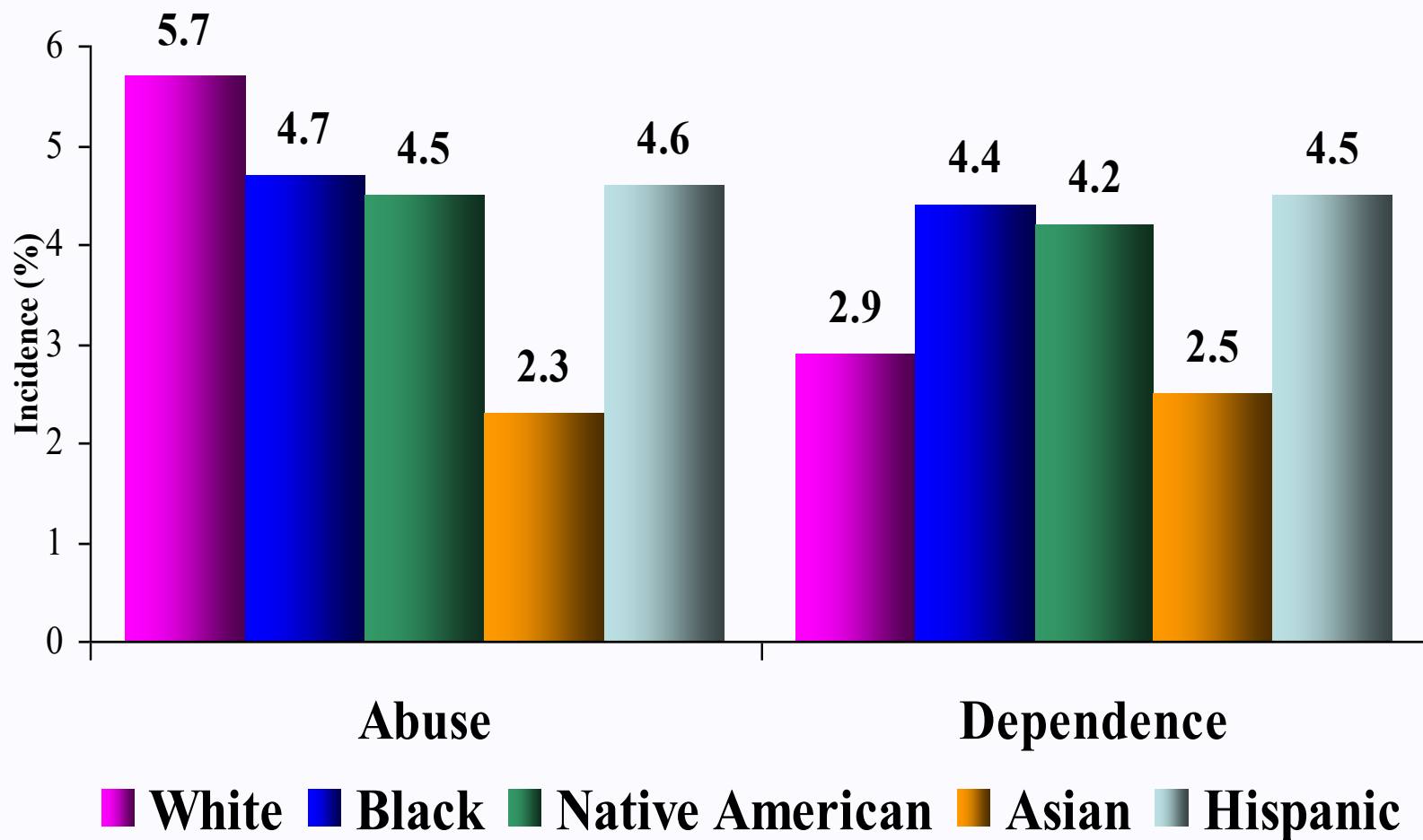
Prevalence of past-year DSM-IV alcohol use disorders (AUD), by race-ethnicity: Total population



Prevalence of past-year DSM-IV alcohol use disorders (AUD), by race-ethnicity: Past-year drinkers



Incidence of 3-year Wave 1 vrs 2 NESARC alcohol abuse and dependence, by race-ethnicity: Total population at risk



Organization of NIAAA Extramural Research

- **Division of Metabolism and Health Effects**
- **Division of Epidemiology & Prevention Research**
- **Division of Treatment and Recovery Research**
- **Division of Neuroscience and Behavior**

Trans-Divisional Research Emphasis

- **Minority Health/Health Disparities**
- **Fetal Alcohol Spectrum Disorders**
- **Underage Drinking**
- **HIV/AIDS and Alcohol Use**
- **Genes X Environment**
- **Medication Development /Pharmacogenetics
Implementation Acceptability Research**
- **Intersection of Addictions Research (CRAN)**

Minority Health / Health Disparities and Diversity Training

Encourage and support research on minority health and health disparities by:

- **Infrastructure development** - Minority Serving Institutions (MSIs) and Diverse Investigators (Diversity Supplements, F31s, Diversity Neuroscience R25, Cooperative Agreements)
- **Enhanced technical assistance:** MHHD research, MSIs, Diversity enhancing programs awardees
- NIH and NIAAA Directors committed to **increase diversity of the biomedical extramural scientific workforce** (and parallel efforts in NIH staffing)

Diversity MHHD Research Infrastructure Enhancing FOAs

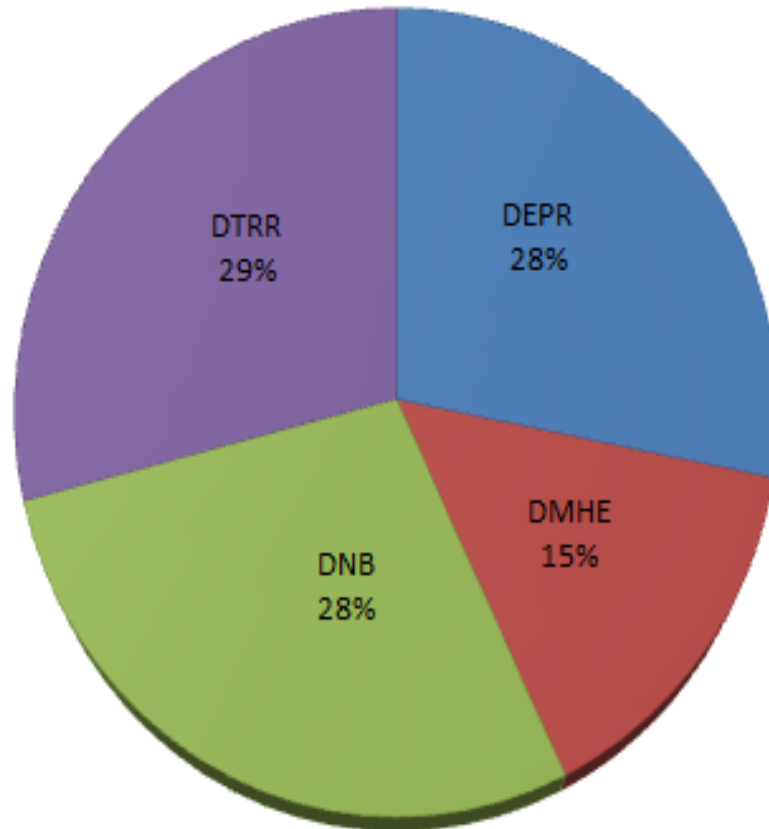
- Research Supplements to Promote Diversity in Health-Related Research PA-12-149**
- NRSA Predoctoral Fellowships (F31) to Promote Diversity in Health-Related Research PA-10-109**
- NIH Blueprint Program for Enhancing Neuroscience Diversity through Undergraduate Research Education Experiences (R25) RFA-NS-14-010**
- Collaborative Minority Alcohol Research Center Development (U54) RFA-AA10-001 (TB Renewed?)**
- Small Business Administrative Contract: Data base for non English language alcohol related research measures to be review in March 2014**

Minority Serving Institutions Infrastructure Development Efforts

- **48 to American Indian Alaska Native Serving Institutions (not TCUs)**
- **36 to Asian American, Native Hawaiian, Pacific Islander Serving Institutions**
- **32 to Hispanic Serving Institutions**
- **5 awards to HBCU/Predominantly Black Colleges**
 - U54 Collaboration between North Carolina Central University and Bowles Center at UNC

Distribution of Diversity Supplements by Division

Distribution of FY 2013 Portfolio Diversity Supplements and New Grants



DEPR: \$2,709,117
DMHE: \$1,430,334
DNB: \$2,701,267
DTRR: \$2,798,673

Enhanced Technical Assistance

- **Exceptional guidance/technical assistance to PIs at MSIs, health disparities researchers, and diversity enhancing awardees**
- **Proactive Outreach (PO) to supportively increased knowledge and confidence with NIH submission, review & funding processes**
 - **Attend/listen to and enhance knowledge**
 - **Won't call us We'll call you**
 - **Review summary statements (*even non discussed ones!*)**
 - **Cautiously optimistic (yet realistic) perspective**
 - **Plan for resubmission or next application**

Health Disparities/Diversity Friendly/Focused Research Funding Opportunity Announcements

- **Behavioral & Social Science Research Understanding and Reducing Health Disparities (OBSSR PA-13-292)**
- **Interventions for Health Promotion and Disease Prevention in Native American Populations (PAR-11-346 NCI lead IC to be renewed)**
- **Reducing Health Disparities Among Minority and Underserved Children (PA-14-033/4)**
- **Behavioral & Integrative Treatment Development Program (R34) (PA-13-078)**
- **Pilot and Feasibility Studies in Preparation for Drug and Alcohol Abuse Prevention Trials (R34) (PA-12-171)**

Low Income & Rural Health Disparities Research

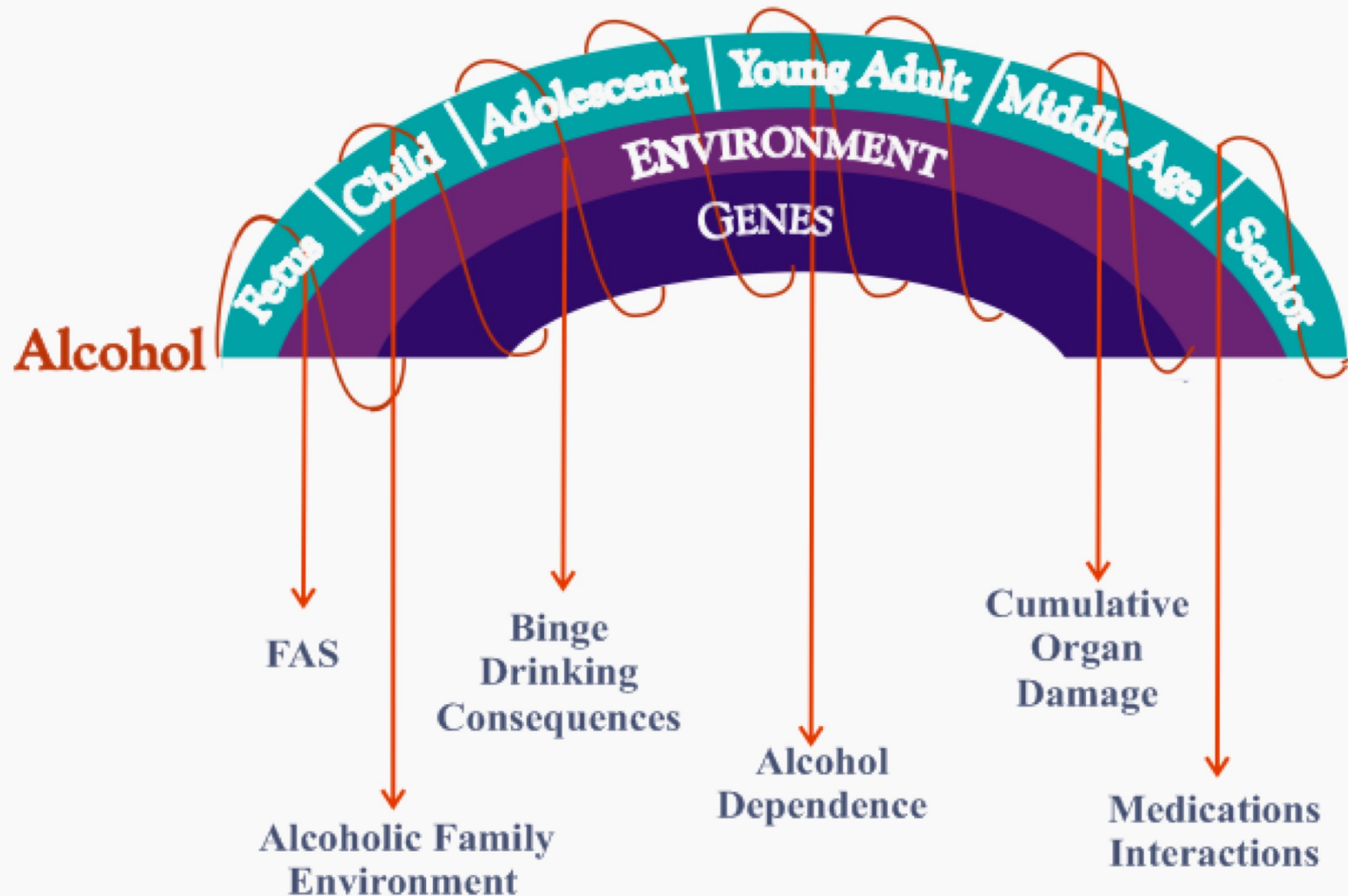
- **Harm reduction with pharmacotherapy for homeless adults with alcohol dependence**
- **Development of LEAP for the Homeless with Alcohol Problems**
- **Influence of Food Insecurity on Adherence**
- **The Strong African American Families Community Dissemination Model**
- **Northwest Pennsylvania Adolescent Alcohol Research Cooperative (Phase II)**

Trans-Divisional Research Emphasis

- **Minority Health/Health Disparities**
- **Fetal Alcohol Spectrum Disorders**

NIAAA Research

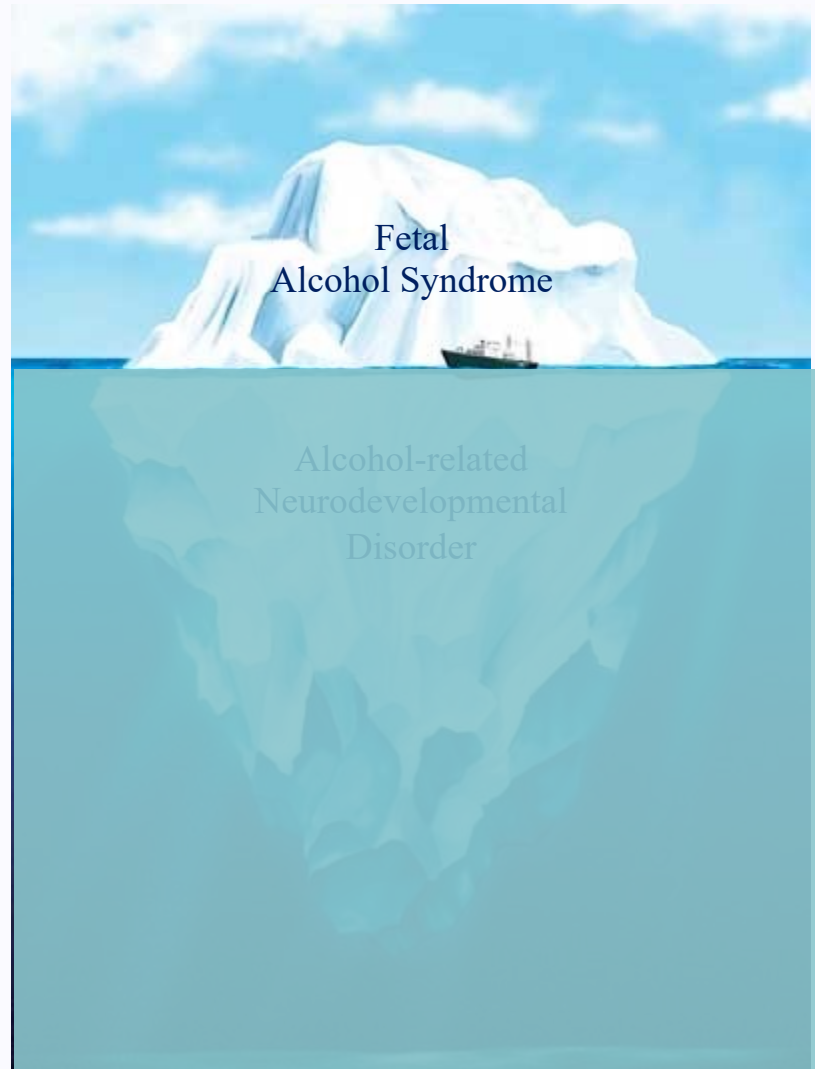
Alcohol Across the Lifespan



The Face of FAS



"Fetal Alcohol Spectrum Disorders"



Discriminating Features

short palpebral fissures

flat midface

short nose

indistinct philtrum

thin upper lip

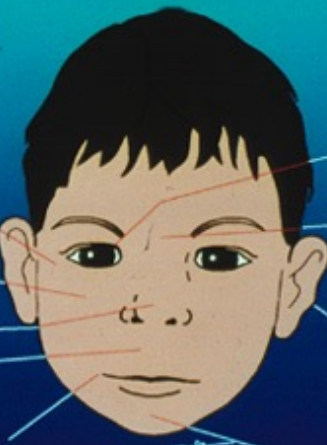
Associated Features

epicanthal folds

low nasal bridge

minor ear anomalies

micrognathia



One More Face of FASD ?



MHHD FASD Research

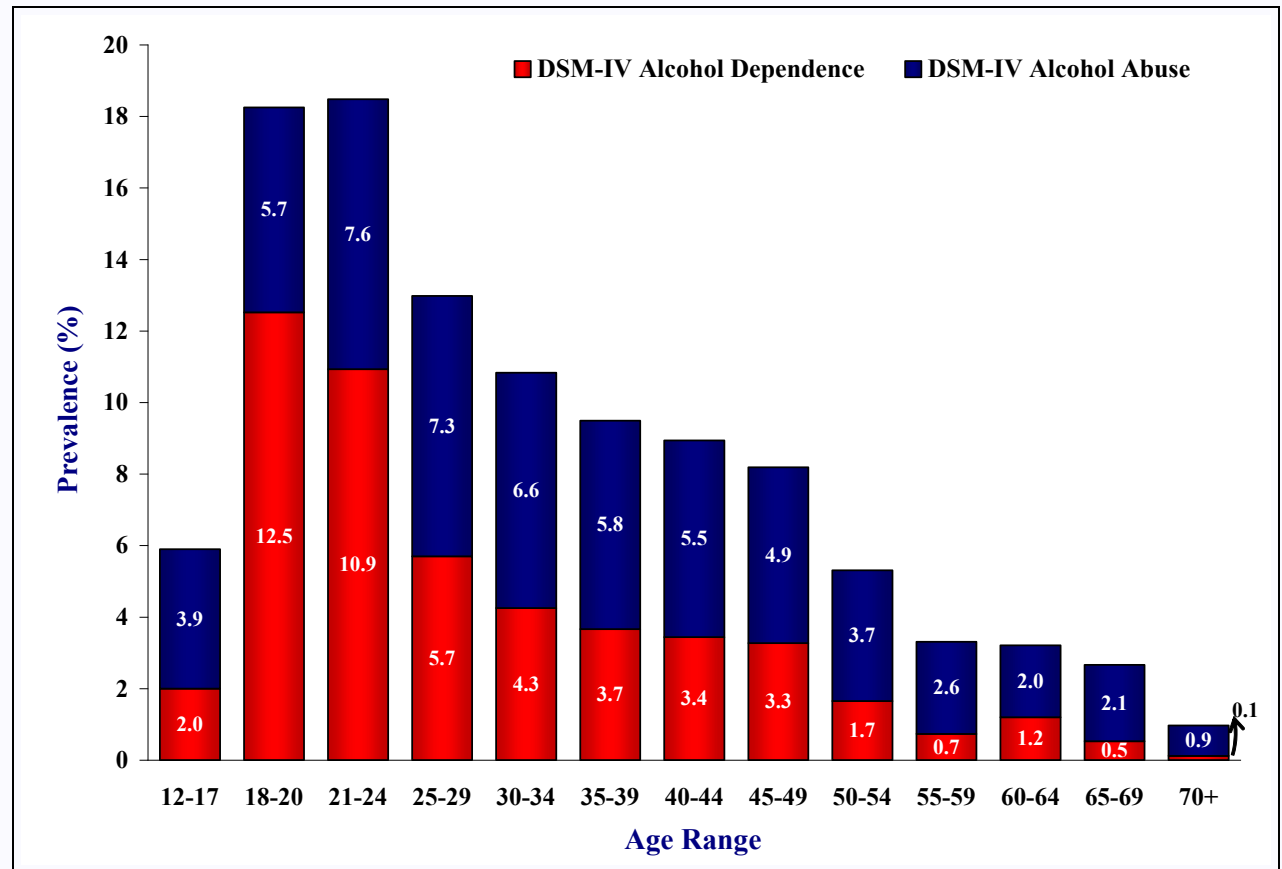
- **Case Ascertainment to Estimate the U.S. Prevalence of Fetal Alcohol Spectrum Disorders in Young Children** In San Diego, Great Falls, Mt., Sioux Falls, ND (Pine Ridge) and rural NC
- **Prenatal Alcohol and SIDS and Stillbirth (PASS) Network – Pine Ridge and South Africa**
- **Native American Research Centers for Health**
 - **Prenatal Alcohol Consumption Among Native American Women in San Diego County**
 - **Development of a Model and Support Network for FASD**

Trans-Divisional Research Emphasis

- **Minority Health/Health Disparities**
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- **Underage Drinking**

Greatest Prevalence of Alcohol Abuse & Dependence Among Young People

Alcohol abuse and alcoholism (alcohol dependence) are collectively called Alcohol Use Disorders (AUDs)

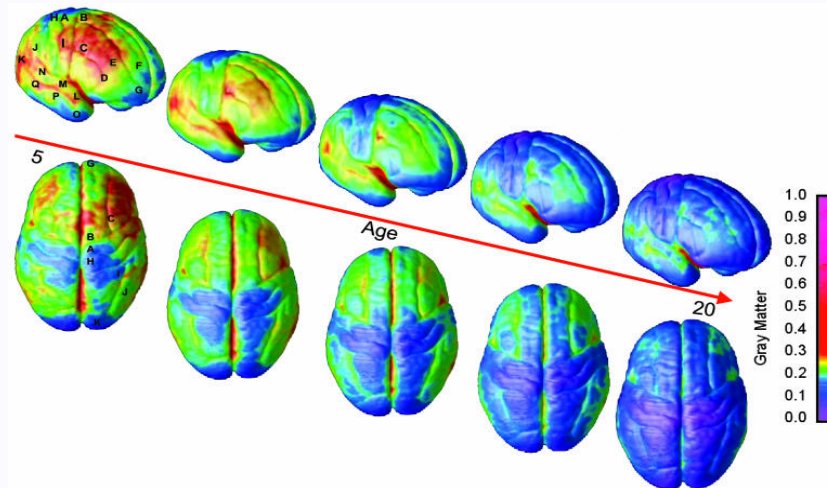


Adolescents and Alcohol – A Public Health Problem?

A Period of Peer Pressure and Exposure to Alcohol



A Period of Rapid Changes in Brain Structure and Function



Underage Drinking a Priority at NIAAA

- **Effects of adolescent binge drinking on brain development PA12-027/28**
- **Screening and brief intervention in underage and young adult populations PA-12-029/30/31**
- **Implications of new digital media use for underage drinking, drinking-related behaviors, and prevention research PA-13-262**
- **Reducing health disparities among minority and underserved children PA-14-033/4 Nursing lead IC**

MHHD Underage Drinking Research

- **Adolescent AOD Use Trajectories: The Role of Race and Ethnicity**
- **Alcohol Screening in an Ethnically Diverse Sample of Adolescents in Primary Care**
- **AMICA: Assessing Fit of Motivational Interviewing by Cultures with Adolescents**
- **Coping With Discrimination: Alcohol Use in Filipino/a American Young Adults**
- **Developmental Pathways to Substance Use Across European & Asian American Youth**
- **Under Age Drinking in Latino Youth**

MHHD Underage Drinking Research

- **A Dual Inoculation Approach to Alcohol Prevention Among African American Youth**
- **Preventing Underage Drinking by Southwest California Indians**
- **Alcohol abuse/dependence and its consequences for Indigenous adolescents**
- **Cherokee Nation Prevention Trial: Interactive Effects of Environment & SBIRT**
- **Tribal Colleges and Universities Behavior Wellness Study (TCU-BeWell)**

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- **Underage Drinking**
- **HIV/AIDS and Alcohol Use**
 - **Kendall Bryant**
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 - **Deidra Roach – DTRR**
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 - **Bob Freeman – DEPR**
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MHHD ALCOHOL-RELATED HIV/AIDS RESEARCH

- **Reducing Alcohol-Related HIV Risk in African American Females**
- **Structural-environmental factors, alcohol and HIV risk in Latino migrant laborers**
- **Computerized BI for Binge Drinking HIV At-Risk & Infected African-American Women**
- **Ondansetron Pharmacotherapy for Hazardous Drinking, HIV+, African-American Women**

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Genes X Environment

Health Disparities Populations

- **Pioneering studies of genetic vulnerability to alcohol use disorders were conducted in European American populations**
- **Need similar research with diverse populations; consider adding genetic component to survey, prevention and treatment intervention studies**
- **Encourage research on relative contribution of genetic & environmental contributions to alcohol use disorders**
- **Pharmacogenetics – personalized medicine**

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Pharmacotherapy Research in MHHD Populations

- **Ondansetron Pharmacotherapy for Hazardous Drinking, HIV+, African-American Women**
- **Alcohol Pharmacotherapies Among Released Prisoners**
- **Optimizing naltrexone for individuals of East Asian descent**

MHHD Genetic Research

- **RISK FACTORS FOR ALCOHOLISM IN NATIVE AMERICANS**
- **ALCOHOL DEPENDENCE IN AFRICAN AMERICANS: A CASE-CONTROL GENETIC STUDY**
- **GENETICS OF ALCOHOL DEPENDENCE IN AFRICAN-AMERICANS**
- **NARCH: To explore acceptability of new medication-based treatments, and pharmacogenetic (PGX) testing among Alaska Natives**

New priorities and developing areas

- **Pharmacotherapy/pharmacogenetics**
- **Rigorous tests of research based interventions to prevent, reduce, and treat AUD (R34s!)**
- **Enhancing diversity of research workforce**
- **Violence & alcohol use – Especially gun violence**
- **Intersection of alcohol and drug research**
- **Addition of LGBT to diversity definition?**

The Goal



NIAAA MHHD RESEARCH

Thank you for your attention!

Muchisimas gracias!

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