National Consortium on Alcohol and Neurodevelopment in Adolescence: NCANDA
N-CANDA Organizational Framework

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---National Community Advisory Board
---National & Community Organizations
---Youth Panel
Related Consortia Collaboration
NCANDA Primary Objectives

- Cohort of 800+ 12-21 yr olds across 5 sites, baseline and 3 annual assessments (to age 24)
- Effects of alcohol exposure on trajectory of adolescent brain development and in the broader context of development
- Dose, duration, and timing effects of alcohol exposure
- Persistence/Resolution of effects with abstinence
- Developmental factors (puberty, sleep) & covariates (sex, psychopathology, FH of alcoholism) modulate alcohol's effects on brain
- Brain markers (structural, functional, cognitive, and affective) predict onset of AUDs and other psychopathology
NCANDA Specialty Studies:
Multiple Site Studies of Risks and Consequences

- Inhibitory Response Dysregulation
  - (Pittsburgh, Duke)
- Sleep Disruption
  - (SRI, Pittsburgh)
- Default Mode Network Abnormalities
  - (SRI, UC San Diego, OHSU)
- Recoverability of Deficits
  - (UC San Diego, Duke)
N-CANDA: Innovative Features

1. Modified accelerated longitudinal design
2. Antecedent conditions
3. Synergistic dependent-variable domains
4. Trajectory relations within & among domains
5. New computerized NP and clinical battery
6. Innovative image processing & analysis
7. Creative administrative & dissemination structures