

NIA LOAD Study: The Next Phase

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Continuation of NIA-LOAD Study

- Emphasis on completion of family collection, particularly multiplex families
- Endophenotypes being collected
- Continued recruitment of controls (currently 300+, goal 1,000)*
- Application to CIDR approved, samples being prepared, genotyping to being in November 2005



CIDR Preparation

- Approved for 2,500 samples
- Samples to be sent late November or Early December
 - Samples can be 10% above or below approved numbers
- Test samples at CIDR now
- LOAD Study genotyped with 9 markers: (X & Y gender) and 7 others for family structure



NCRAD/GCC Sample Processing

- Results of marker studies
 - Several pedigrees were incorrectly databased and an erroneous MDS was sent to NCRAD
 - Sites were contacted in each case and asked to review their family structure and sample collection



LOAD Study Samples (9/21)

- 341 completed families
- 297 qualifying families
- · 235 completed, qualifying families
 - All samples have been collected from these families. No more sample collection is planned
 - These samples would be proposed as the highest priority samples for CIDR
 - ~1,600 samples are ready for CIDR



LOAD Study Samples

- If we do not have 2,500 samples ready for CIDR from the multiplex families
 - We will then include LOAD Study controls
 - Genotyping this sample will provide allele frequency estimates
- Currently, we have 297 controls with a biological sample and a MDS



CIDR Details

- 6k SNP Chip
- Clinical data and Genotyping results will be made available on web
- Conduct preliminary linkage analysis
- Solicit additional proposals for genetic analyses by other investigators
- · Results of all analyses available on web

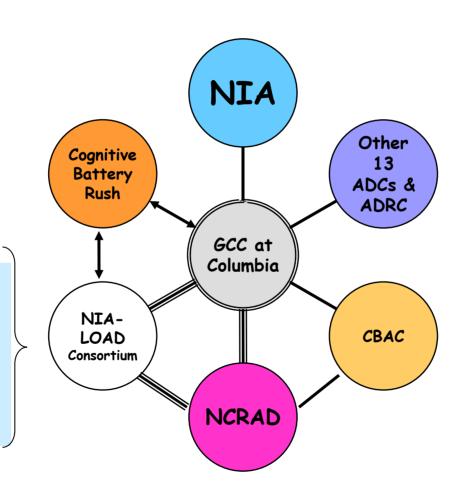


Goals

- 1. Complete the collection of 1,000+ families
- 2. Identify newly affected family members and unaffected members in recruited families
- 3. Continue follow-up of participating families
- 4. Expand phenotyping with quantitative traits
- 5. Complete the recruitment and begin follow-up of controls
- 6. Expand autopsy procedure (autopsy sites)
- 7. Make samples, clinical data, CIDR genotyping data and preliminary analyses available to all qualified investigators



NIA-LOAD: Phase II



Columbia
Indiana
Mayo (R&J)
Washington Univ
UWStL
UTSW



Continued Participation

- Centers can continue to be involved
 - Follow-up of participating families
 - · Need to complete data collection
 - · GCC/NCRAD will help to identify families
 - Identification of new families
 - · Pedigrees must have prior approval
 - Emphasis on multiplex families (e.g. 3 or more affecteds and two generations)
 - Controls
 - Provision for data collection and follow-up



Continued Role of ADC/ADRC

- · Leadership of this research resource
 - Report directly to NIA and ADC leadership
 - Original centers will (can) continue to be involved
 - Subcontracts
 - follow-up
 - Identification of new families
- Publications will be required to identify the ALL NIA-LOAD Study investigators
- This will continue as an ADC/ADRC related program