Imaging and the ADRCs

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Co-Director, Alzheimer’s Disease Research Centers Program
National Institute on Aging
May 1, 2020
Administrative Supplement Call

• Initiative goals:
  • Support standardized, prospective brain MRI, amyloid PET and Tau PET neuroimaging of Clinical Core participants
  • Provide images (processed through SCAN) to NACC, associated with clinical data, and made available to the wider research community.

• Applications must include:
  • Scientific justification for the MRI, Amyloid PET, and Tau PET scans requested
  • Description on how the neuroimaging will be carried out within the year
  • A Letter of Support from SCAN

• Awards are limited to $250,000 direct costs for a single year and may not extend beyond the end of the project period

• Submit administrative supplement using PA-18-591

Due Date: May 22, 2020
London: July 14, 2017

**APRIL 2017**
Information gathering by survey

**JULY 2017**
AAIC Meeting: Costs and benefits of standardization

**APRIL 2018**
Imaging Meeting Los Angeles, CA
Imaging Standardization Proposal
Presentations

**MAY 2019**
SCAN: Standardized Centralized Alzheimer’s and Related Dementias Neuroimaging (U24)

**OCTOBER 2019**
Imaging Core Steering Committee Established

**MAY 2020**
SCAN start date
Inaugural Imaging Core Meeting

Reference Links:
https://www.alz.washington.edu/WEB/imagingStandProp.html
https://www.alz.washington.edu/NONMEMBER/SPR18/Spr2018talks.html
ADRC Neuroimaging Core Structures

- 16 Centers with Neuroimaging Cores
- 7 Centers neuroimaging within Biomarker Cores
- 8 Centers neuroimaging Using Other Structures
Neuroimaging Planned for 2019 - 2024

<table>
<thead>
<tr>
<th>Type of Image</th>
<th>Center Funding</th>
<th>Outside Funding*</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>amyloid PET</td>
<td>237</td>
<td>20</td>
<td>257</td>
</tr>
<tr>
<td>MRI</td>
<td>1,330</td>
<td>534</td>
<td>1,864</td>
</tr>
<tr>
<td>PET</td>
<td>135</td>
<td>290</td>
<td>425</td>
</tr>
<tr>
<td>PET-volMRI</td>
<td>102</td>
<td>30</td>
<td>132</td>
</tr>
<tr>
<td>tau PET</td>
<td>196</td>
<td>-</td>
<td>196</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>2,001</strong></td>
<td><strong>874</strong></td>
<td><strong>2,915</strong></td>
</tr>
</tbody>
</table>

*if reported
• The dissemination and utilization of clinically valuable data paired with neuroimaging can advance the field

• Broader dissemination and standardization of neuroimaging and other biomarker tools for diagnosing AD/ADRD are a priority for NIA.

• SCAN is funded to manage the sharing of standardized imaging data on ADRC participants:
  • Standardize collection of select MRI and PET neuroimaging scans at the ADRCs, and plan for incorporating development of new MRI and PET neuroimaging methods.
  • Transfer and harmonize standardized MRI and PET scans to a central repository.

• NACC is responsible:
  • Manage neuroimaging data in the repository and share de-identified ADRC PET and MRI scans with investigators.
Standardized Centralized Alzheimer's and Related Dementias Neuroimaging (SCAN) U24

- RFA-AG-20-043 posted May 2019
- Five-year project period: 2020 – 2024
- Transfer and harmonize standardized MRI and PET scans to a central repository
- NIA's expectation is that the final, individual MRI and PET scans from SCAN and available from the repository will be harmonized and combinable across ADRCs and with individual MRI and PET scans available from ADNI.
# Imaging Core Steering Committee

<table>
<thead>
<tr>
<th>Position</th>
<th>Term ends</th>
<th>Name</th>
<th>Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elected</td>
<td>Spring 2022</td>
<td>Kejal Kantarcı, MD</td>
<td>Mayo Clinic</td>
</tr>
<tr>
<td>Elected</td>
<td>Spring 2022</td>
<td>Konstantinos Arfanakis, PhD</td>
<td>Rush University</td>
</tr>
<tr>
<td>Elected</td>
<td>Spring 2023</td>
<td>Charles DeCarli, MD</td>
<td>University California, Davis</td>
</tr>
<tr>
<td>Elected</td>
<td>Spring 2023</td>
<td>John Detre, MD</td>
<td>University of Pennsylvania</td>
</tr>
<tr>
<td>Elected</td>
<td>Spring 2023</td>
<td>Emily Rogalski, MD</td>
<td>Northwestern University</td>
</tr>
<tr>
<td>Elected, Co-chair; Meeting: Spr20</td>
<td>Spring 2024</td>
<td><strong>Sterling Johnson, PhD</strong></td>
<td>Wisconsin ADRC</td>
</tr>
<tr>
<td>Elected, Co-chair; Meeting: Spr20</td>
<td>Spring 2024</td>
<td><strong>Beth Mormino, PhD</strong></td>
<td>Stanford University</td>
</tr>
</tbody>
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*3-year term for members; 1-year term as Chair*

[https://www.alz.washington.edu/NONMEMBER/adc_comm.html](https://www.alz.washington.edu/NONMEMBER/adc_comm.html)
Feedback, Questions, Thoughts?

https://app.slack.com/client/TS1EX4B4G/C0118DKL3JL

@Brian Stahly (NACC) created this channel on March 31st. This is the very beginning of the #imaging-core channel.

Tuesday, March 31st

Brian Stahly (NACC) 2:45 PM
joined #imaging-core along with 5 others.

Be the first to post a message and help get the conversation started.