


Retrospective Analysis Working Group

Retrospective Analysis of ADC Brain Tissues

- Remarkable progress in neurodegenerative disease neuropathology
- Renders legacy cases less useful unless resources are made available to “backfill” missing data
- Needs:
 - Standardization of methods (antibodies, sections, interpretation)
 - Technical support (cutting, restaining sections)
- Outcomes:
 - Improved clinicopathologic correlation, particularly of newly codified entities

Limbic-predominant age-related TDP-43 encephalopathy (LATE): consensus working group report

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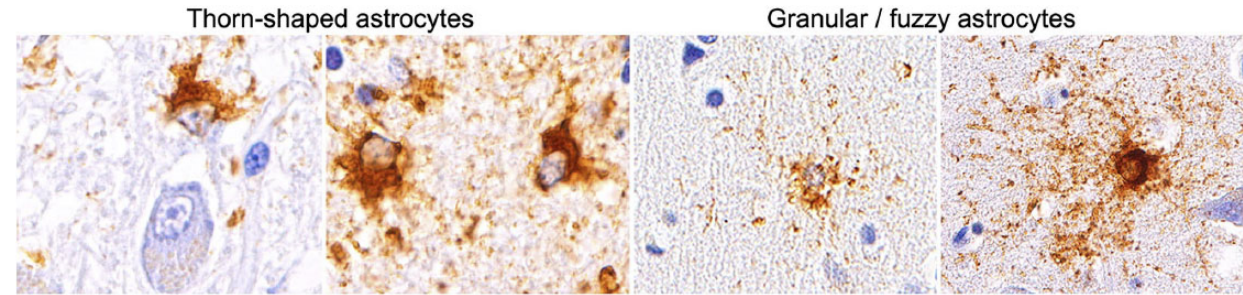
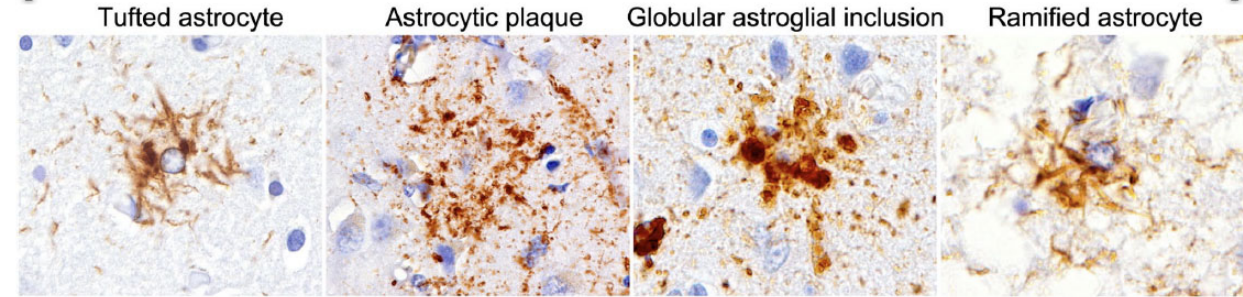
Simplified staging of TDP-43 proteinopathy* for routine LATE-NC diagnosis (consensus recommendation)		Josephs TDP-43 proteinopathy staging (KA Josephs et al, 2013)		Rush University TDP-43 proteinopathy staging (S Nag et al, 2017)	
0	None	0	None	0	None
1	Amygdala	1	Amygdala	1	Amygdala
2	Hippocampus	2	Entorhinal cortex, subiculum	2	Entorhinal cortex, CA1
		3	Dentate, Occipitotemporal cortex	3	Anterior temporal cortex
		4	Insula, Inf temporal cortex	4	Midtemporal and orbitofrontal cortex
		5	Inf olive, midbrain		
3	Middle frontal gyrus (MFG)	6	Basal ganglia, MFG	5	MFG

*-Any TDP-43 proteinopathy is seen in that anatomic region

Aging-related tau astrogliopathy (ARTAG): harmonized evaluation strategy

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Primary tauopathies



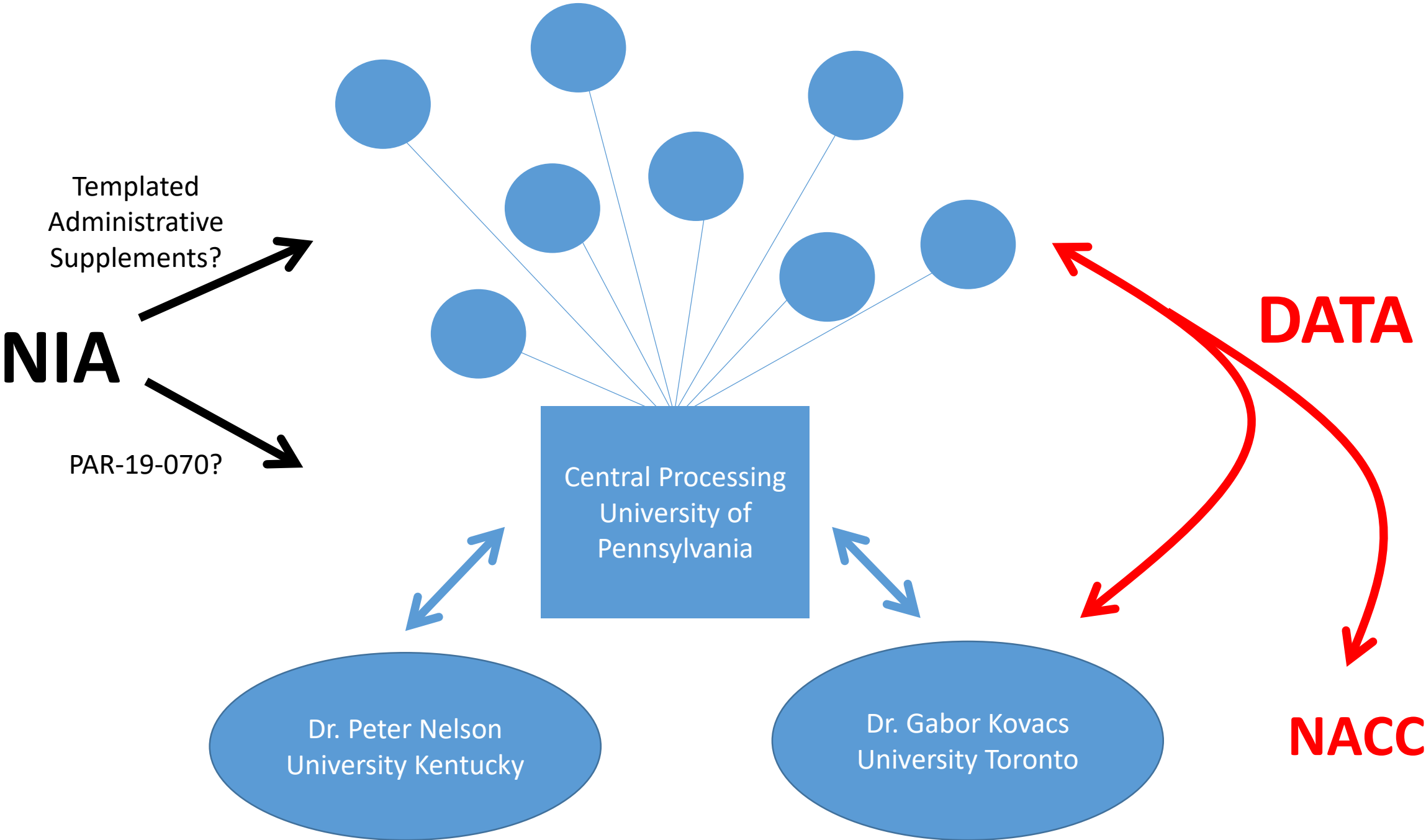
ARTAG

ARTAG and LATE in the ADC Network (ALAN)

- PAR-19-070: Research on Current Topics in ADRD
“Collaborative Studies on AD and ADRD”
- Validate methods for evaluating LATE and ARTAG across ADC NP Cores
- Facilitate generation of “backfill” neuropathology data for legacy cases to enhance research across the ADC network
- Determine whether ARTAG and/or LATE correlate with clinical features of cognitive dysfunction across the ADC network

ARTAG and LATE in the ADC Network (ALAN)

- Participating ADC NP Cores provide unstained slides to central processing site (University of Pennsylvania) for immunostaining for tau and TDP-43.
 - Total TDP-43
 - Phospho TDP-43 (Proteintech p409/410)
 - AT8
- One set to be stained at home institution using their own protocols to allow for comparison of methods. Existing stained slides are OK.
- Incorporation of data into NACC for clinicopathologic correlation analysis.
 - Cohort should be focused on those cases for which UDS is available.



Interested ADC NP Cores

- An email will be sent reminding NP Core Leaders interested in participating to indicate willingness to participate and estimated number of cases to be submitted with some basic demographics.