Supplementary Table 1. Regions of Interest used in Neuropathologic Evaluation and Analysis

Region	TDP-C	H&E
Cortical		
Anterior cingulate cortex (ACC)		X
Entorhinal cortex (ERC)	X	X
Left and right inferior frontal gyrus (IFG)	X	X
Left and right inferior parietal lobule (IPL)	X	X
Insula	X	X
Left and right middle frontal gyrus (MFG)	X	X
Left motor cortex	X	X
Occipital cortex	X	X
Posterior cingulate cortex (PCC)		X
Left somatosensory cortex	X	X
Left and right superior temporal gyrus (STG)	X	X
Left and right temporal poles	X	X
Transentorhinal cortex	X	X
Subcortical		
Amygdala	X	X
Basis pontis (PONS)		X
CA1	X	X
CA2-4	X	X
Caudate	X	X
Cerebral peduncle	X	X
Claustrum	X	X
Dentate gyrus (dentate)	X	X
Globus pallidus	X	X
Inferior olive	X	X
Internal capsule		X
Locus coeruleus		X
Mammillary body		X
Nucleus ambiguus	X	X
Nucleus basalis of Meynert (nbM)	X	X
Periaqueductal gray	X	X
Purkinje layer of the cerebellum (CBL)		X
Pyramis	X	X
Putamen	X	X
Subiculum	X	X
Substantia nigra	X	X
Subthalamus	X	X
Tegmentum	X	X
Thalamus	X	X

35 distinct cortical and subcortical regions were used to analyze TDP-C distribution, and 42 regions were used to analyze NL/G through H&E staining. Table indicates whether bilateral cortical sections were available.

Supplementary Table 2. Mean and Median TDP-C and NL/G Scores of Regions in High and Low Neuronal Dropout Groups

Region	Group		NCIs	Short DNs	Long DNs	NL/G
Temporal Poles (TP)	High					
		Median	1.75	3	2.5	4
		Mean	1.83	3.19	2.58	3.94
Amygdala	High					
		Median	2	4	2	4
		Mean	2.4	3.6	2.1	3.9
Transenotrhinal & Entorhinal (Trans/ERC)	High					
		Median	1.5	3	1.75	3.5
		Mean	1.46	3.03	1.65	3.65
Inferior Frontal Gyri (IFGs)	Low					
		Median	2	2.63	3	2
		Mean	1.83	2.58	3.15	1.88
Somatosensory	Low					
		Median	1.5	2.5	2.5	0
		Mean	1.67	2.89	2.39	0.5
Occipital	Low					
		Median	0.5	2	1.5	0
		Mean	0.56	2	1.33	0

"High" refers to the high neuronal dropout group (amygdala, bilateral temporal pole, trans/ERC), and "low" refers to the low neuronal dropout group (bilateral IFG, somatosensory, occipital). Median TDP-C scores of the six regions are fairly comparable across the 3 pathologic inclusions (NCIs, Short DNs, Long DNs); however, median NL/G scores differ greatly between high and low groups.

Supplementary Table 3. Spearman Correlations between TDP-C and NL/G Scores in Regions in High and Low Neuronal Dropout Groups

Group	NCIs	Short DNs	Long DNs
High	r = 0.2378 (p=0.2524)	r = -0.3398 (p=0.096)	r = -0.016 (p=0.937)
Low	r = 0.5258 (p=0.0083)	r = 0.4963 (p=0.0136)	r = 0.6613 (p=0.0004)

"High" refers to the high neuronal dropout group (amygdala, bilateral temporal pole, trans/ERC), and "low" refers to the low neuronal dropout group (bilateral IFG, somatosensory, occipital).