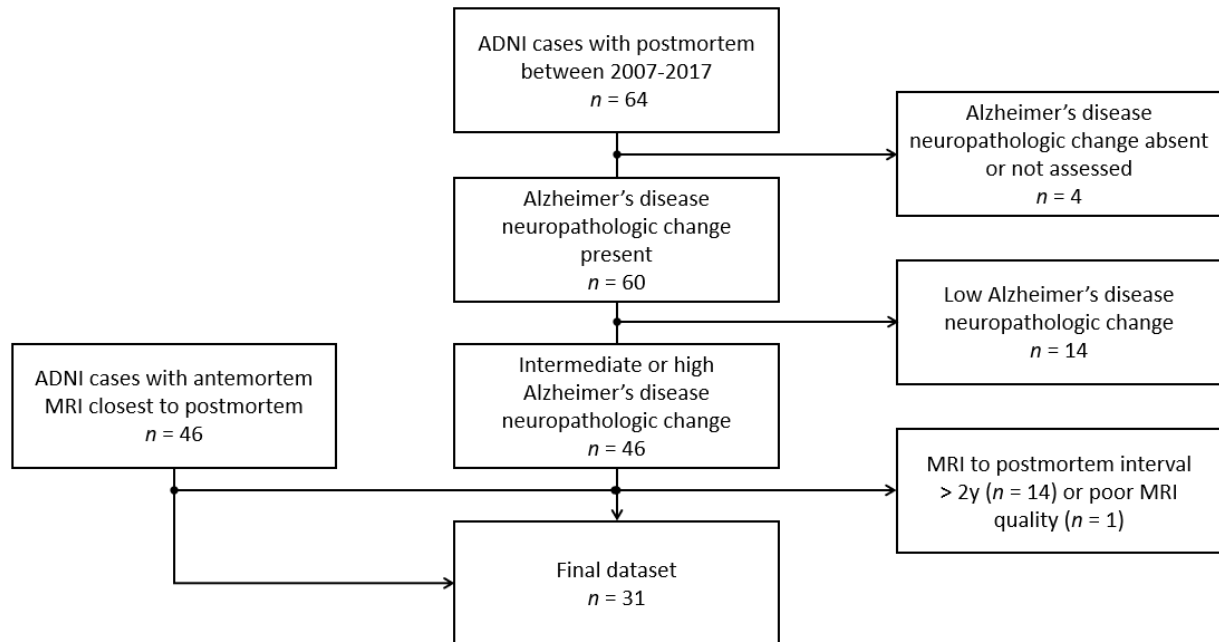


Neuropathological features of antemortem atrophy-based subtypes of Alzheimer's disease

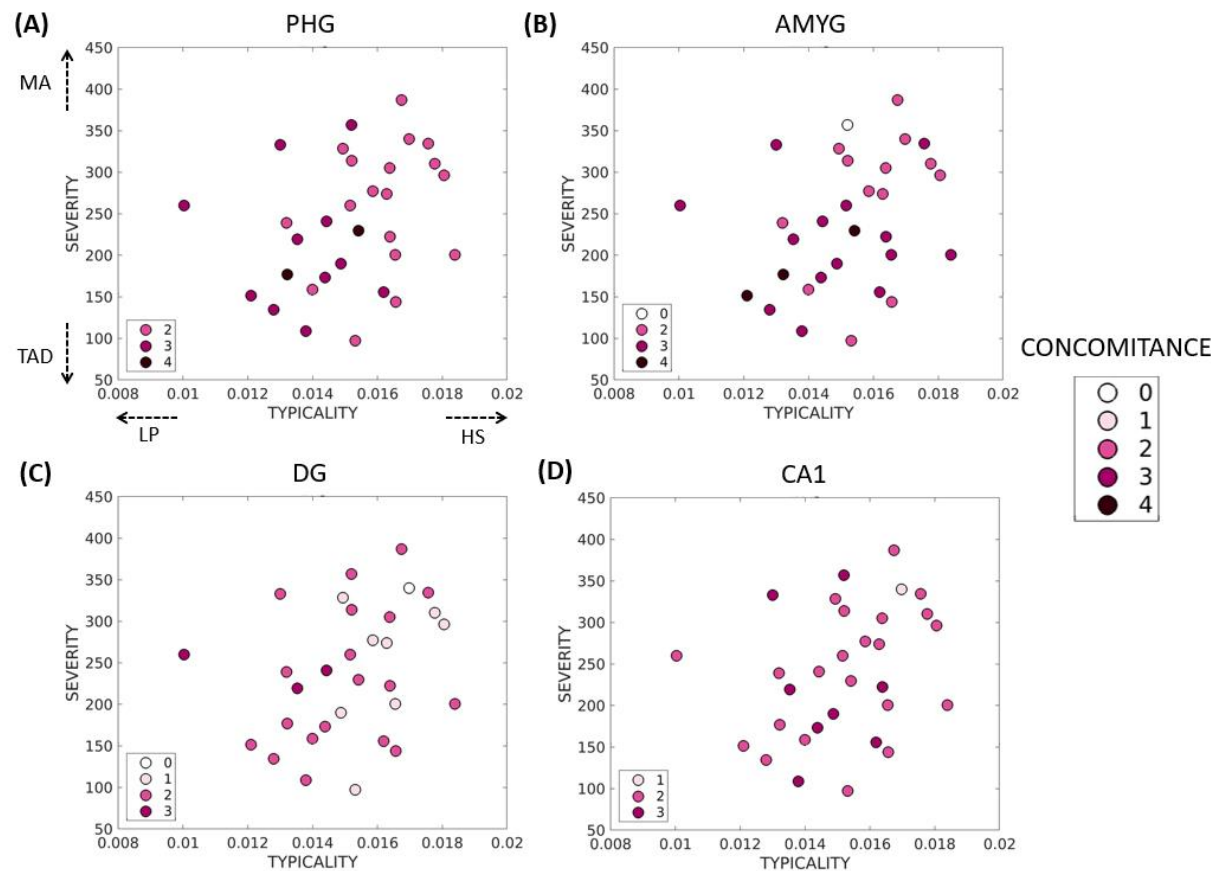
Supplementary Material

Supplementary Figure 1. Flowchart of selection of study cohort



Abbreviations: ADNI=Alzheimer's disease neuroimaging initiative; MRI=magnetic resonance imaging.

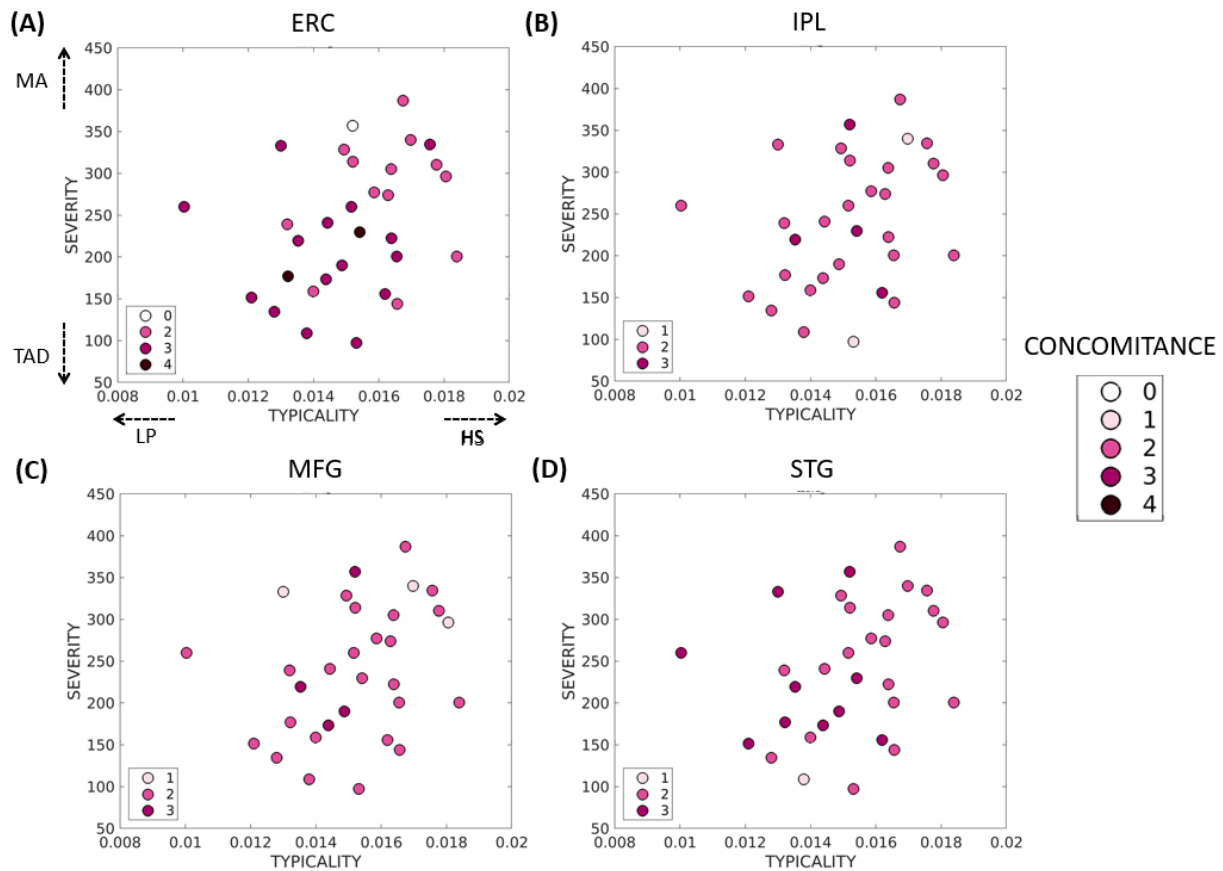
Supplementary Figure 2. Distribution of regional neuropathologic outcomes of medial temporal lobe structures superposed on antemortem MRI-based heterogeneity



Note: Medial temporal lobe structures assessed included **(A)** parahippocampal gyrus, **(B)** amygdala, **(C)** dentate gyrus, **(D)** cornu ammonis1 subfield. Concomitance was assessed by the total number of pathologies, summed for the presence of four pathologies including A β (diffuse and cored plaques), tau (neurofibrillary tangles), α -Syn (Lewy bodies), TDP-43 (neuronal cytoplasmic inclusion).

Abbreviations: A β =beta-amyloid; α -Syn=alpha-synuclein; TDP-43=TAR DNA-binding protein 43; PHG=hippocampus at the level of lateral geniculate nucleus including parahippocampal gyrus; AMYG=amygdala; DG=hippocampus at the level of lateral geniculate nucleus including dentate gyrus; CA1=hippocampus at the level of lateral geniculate nucleus including cornu ammonis1 subfield; TAD=typical AD; HS=hippocampal-sparing AD; LP=limbic-predominant AD.

Supplementary Figure 3. Distribution of regional neuropathologic outcomes of the cortex superposed on antemortem MRI-based heterogeneity



Note: Cortical structures assessed included: **(A)** entorhinal cortex, **(B)** inferior parietal lobe, **(C)** middle frontal gyrus, **(D)** superior/middle temporal gyri. Concomitance was assessed by the total number of pathologies, summed for the presence of four pathologies including A β (diffuse and cored plaques), tau (neurofibrillary tangles), α -Syn (Lewy bodies), TDP-43 (neuronal cytoplasmic inclusion).

Abbreviations: A β =beta-amyloid; α -Syn=alpha-synuclein; TDP-43=TAR DNA-binding protein 43; ERC=entorhinal cortex; IPL=inferior parietal lobe (angular gyrus); MFG=middle frontal gyrus; STG=superior and middle temporal gyri; TAD=typical AD; HS=hippocampal-sparing AD; MA=minimal-atrophy AD; LP=limbic-predominant AD.