Harmonization of protocols for the manual tracing of the hippocampus an EADC-ADNI joint effort AUTHOR-CERTIFIED PROTOCOL FEATURES AND TRACINGS

Convit A, De Leon MJ, Tarshish C, De Santi S, Tsui W, Rusinek H, George A.

Specific hippocampal volume reductions in individuals at risk for Alzheimer's disease.

Neurobiol Aging. 1997; 18:131-8

In the following section you can find:

- 1)An excerpt of the Survey of anatomical landmarks according to Convit et al.'s criteria.
- 2)The hippocampal tracing on consecutive coronal slices of a 1.5T ADNI control subject (**2A**) and AD patient (**2B**).

1) Excerpt of the Survey of anatomical landmarks according to Convit et al.'s criteria.

	Plane								
	axis of hippocampus								
			Start tracing						
			from head to tail						
Α	reas explicitly included	Areas explicitly excluded	Most anterior slice	Most posterior slice					
Portion of subiculum directly underneath the hippocampus, alveus and fimbria		Portion of subiculum not underneath the hippocampus	Level at w hich the head of hippocampus first appears below the amygdala as a transversely oriented oval structure	Level w here the crus of fornix w as visible in full profile					
			BOUNDARIES						
	Lateral border	Inferior border	Medial border	Superior border					
HEAD	temporal horn of lateral ventricle	White matter of parahippocampal gyrus	Vertical line drawn from the CA of hippocampus to the white matter of parahippocampal gyrus	Alveus/orizontal line connecting the middle of the medial border of the lateral ventricle to the surface of the uncus					
ВОДУ	temporal horn of lateral ventricle	White matter of parahippocampal gyrus	Vertical line drawn from the CA of hippocampus to the white matter of parahippocampal gyrus	not mentioned					

2A)CTRL	117	118	119	120	121
Anatomical section					
Native MRI					
Tracing				0	
Notes		Most posterior slice: level at which the head of hippocampus first appears below the amygdala as a transversely oriented oval structure Sagittal view			1=Temporal horn of the lateral ventricle (uncal recess) 2=Parahippocampal gyrus 3=Hippocampal head 4=Amygdala

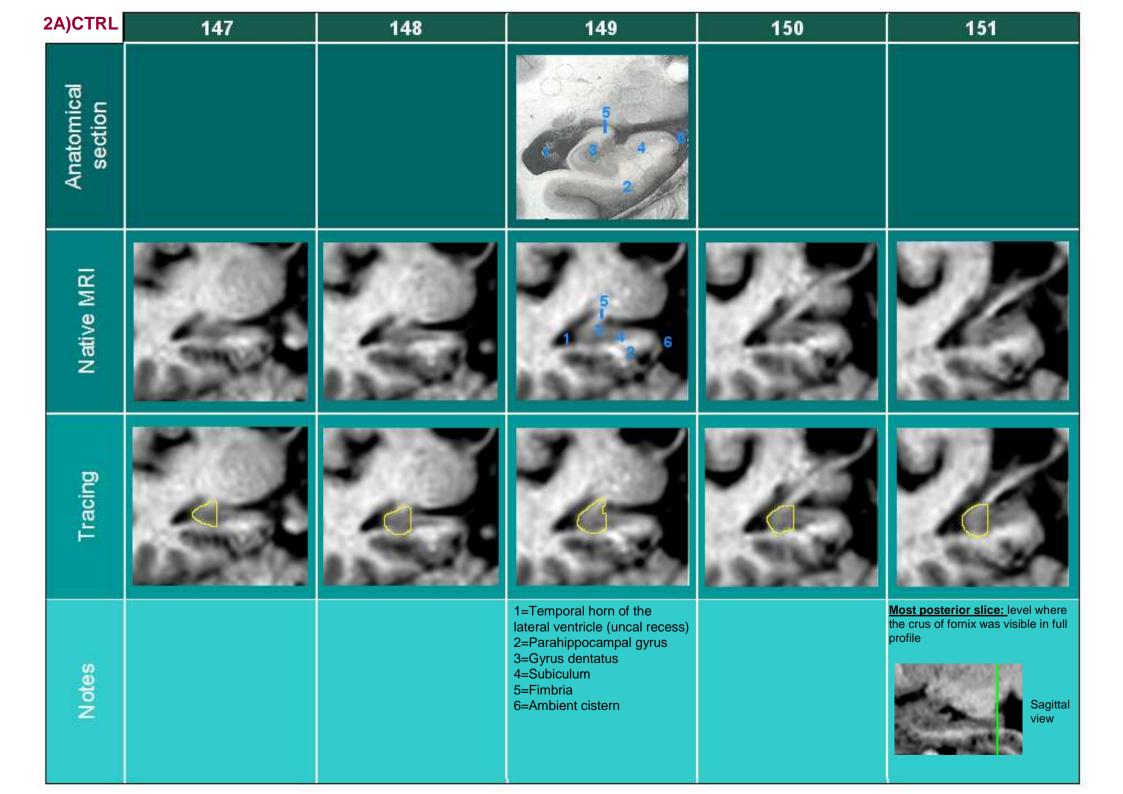
2A)CTRL	122	123	124	125	126
Anatomical section			1 3		
Native MRI			4 4 4 2		
Tracing			3		
Notes		Superior border: alveus/orizontal line connecting the middle of the medial border of the lateral ventricle to the surface of the uncus	1=Temporal horn of the lateral ventricle (uncal recess) 2=Parahippocampal gyrus 3=Hippocampal head 4=Amygdala		

2A)CTRL	127	128	129	130	131
Anatomical section		16 3			
Native MRI		18 9			
Tracing				9	
Notes		1=Temporal horn of the lateral ventricle (uncal recess) 2=Parahippocampal gyrus 3=Gyrus dentatus 4=Subiculum 5=Cornu Ammonis 6=Vertical digitation		Alveus and fimbria were included in the tracing.	1=Temporal horn of the lateral ventricle (uncal recess) 2=Parahippocampal gyrus 3=Gyrus dentatus 4=Subiculum 7=Alveus 8=FImbria

2A)CTRL	132	133	134	135	136
Anatomical section					
Native MRI					
Tracing	S ^o		Ğ		
Notes		Medial border : vertical line drawn from the CA of hippocampus to the white matter of parahippocampal gyrus			

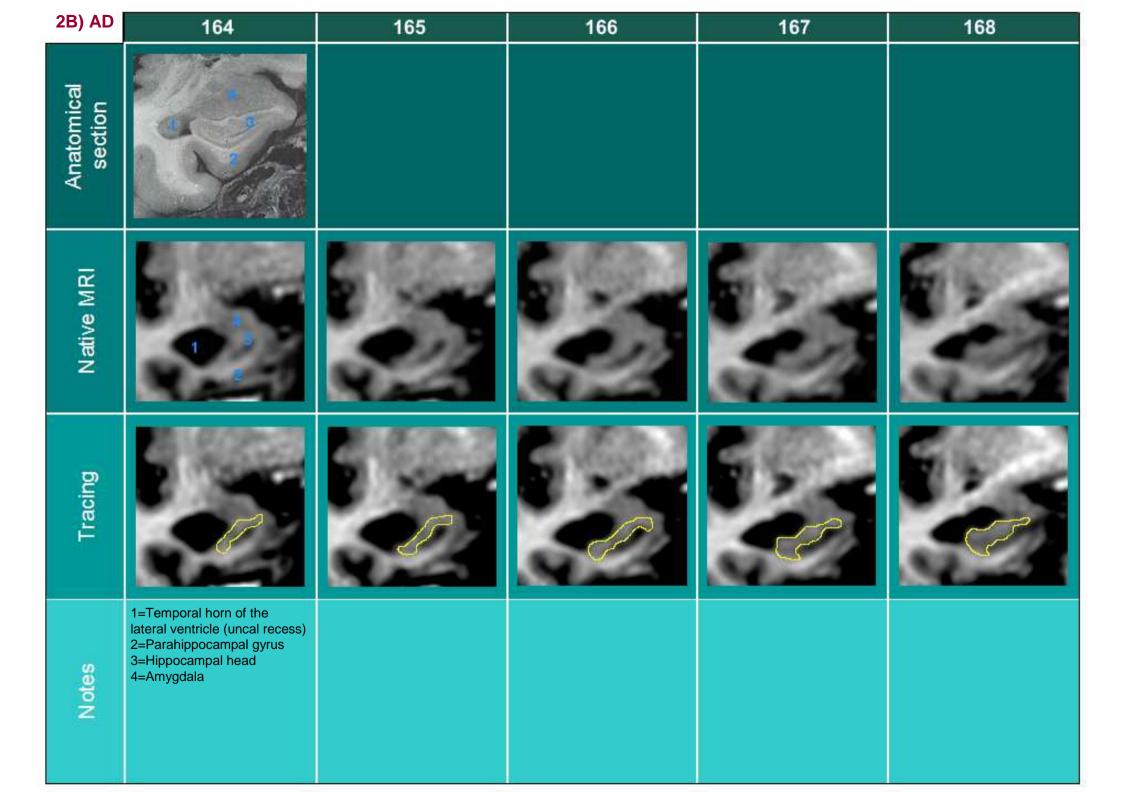
2A)CTRL	137	138	139	140	141
Anatomical section			7 6		
Native MRI			7 5 6 1 1 5 6		
Tracing					
Notes			1=Temporal horn of the lateral ventricle (uncal recess) 2=Parahippocampal gyrus 3=Gyrus dentatus 4=Subiculum 5=Choroidal fissure 6=Ambient cistern 7=Fimbria 8=Lateral geniculate body		

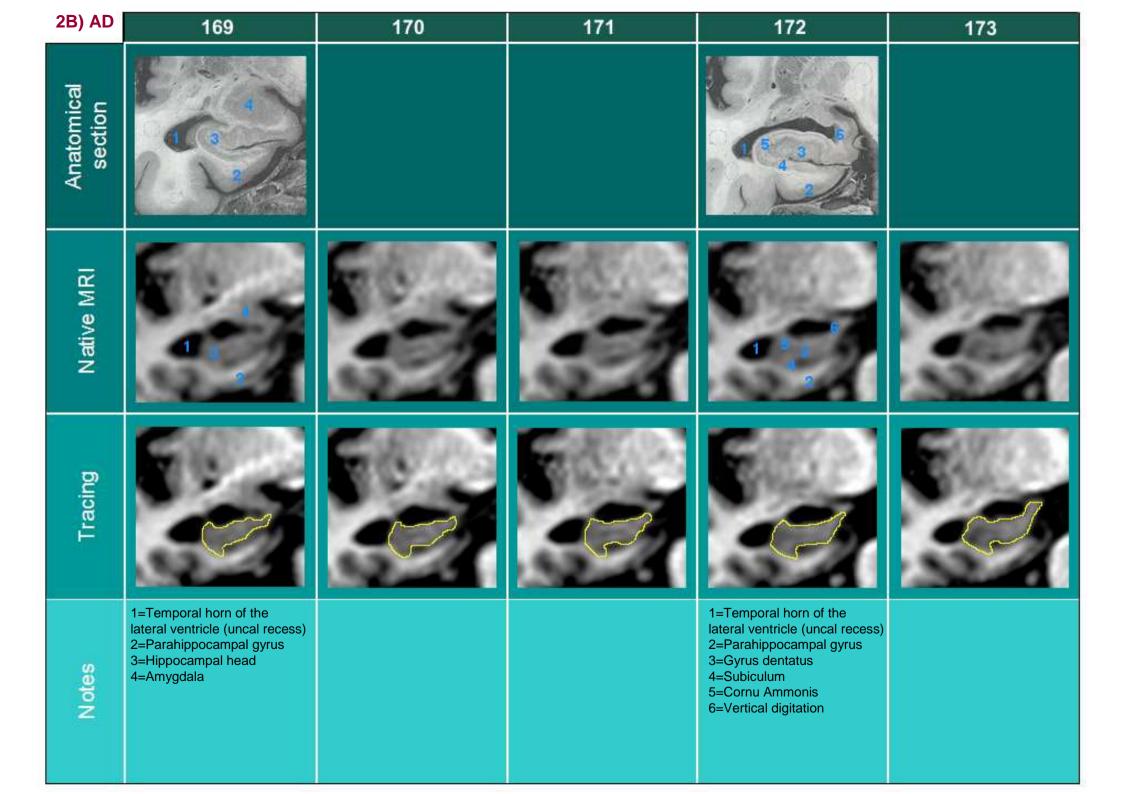
2A)CTRL	142	143	144	145	146
Anatomical section					
Native MRI					
Tracing					
Notes					



2A)CTRL	152	153	154	155	
Anatomical section					
Native MRI		1 6			
Tracing					
Notes		1=Temporal horn of the lateral ventricle (uncal recess) 2=Parahippocampal gyrus 3=Isthmus 4=Cornu Ammonis 5=Gyrus dentatus 6=Crus of fornix		1=Temporal horn of the lateral ventricle (uncal recess) 2=Parahippocampal gyrus 3=Isthmus 4=Cornu Ammonis	

2B) AD	159	160	161	162	163
Anatomical section					
Native MRI					
Tracing					
Notes			Most anterior slice: level at which the head of hippocampus first appears below the amygdala as a transversely oriented oval structure Sagittal view		





2B) AD	174	175	176	177	178
Anatomical section					
Native MRI					
Tracing					
Notes				1=Temporal horn of the lateral ventricle (uncal recess) 2=Parahippocampal gyrus 3=Gyrus dentatus 4=Subiculum 7=Alveus 8=FImbria	

2B) AD	179	180	181	182	183
Anatomical section					
Native MRI					
Tracing					
Notes					

2B) AD	184	185	186	187	188
Anatomical section			7.0		
Native MRI			7 8 5 1 2 4 6		
Tracing					
Notes			1=Temporal horn of the lateral ventricle (uncal recess) 2=Parahippocampal gyrus 3=Gyrus dentatus 4=Subiculum 5=Choroidal fissure 6=Ambient cistern 7=Fimbria 8=Lateral geniculate body		

2B) AD	189	190	191	192	193
Anatomical section					
Native MRI					
Tracing	Q				
Notes					

2B) AD	194	195	196	197	198
Anatomical section					
Native MRI					
Tracing					
Notes					

2B) AD	199	200	201	202	203
Anatomical section					5 1 4 2 2
Native MRI					1 1 6
Tracing				d	
Notes					1=Temporal horn of the lateral ventricle (uncal recess) 2=Parahippocampal gyrus 3=Gyrus dentatus 4=Subiculum 5=Fimbria 6=Ambient cistern

2B) AD	204	205	206	207	208
Anatomical section					
Native MRI					
Tracing					
Notes					Most posterior slice: level where the crus of fornix was visible in full profile Sagittal view

2B) AD	209	210	211	
Anatomical section				
Native MRI				
Tracing				
Notes	1=Temporal horn of the lateral ventricle (uncal recess) 2=Parahippocampal gyrus 3=Isthmus 4=Cornu Ammonis 5=Gyrus dentatus 6=Crus of fornix		1=Temporal horn of the lateral ventricle (uncal recess) 2=Parahippocampal gyrus 3=Isthmus 4=Cornu Ammonis	