

Supplementary Data

Swallowing Intentional Off-State in Aging and Alzheimer's Disease: Preliminary Study

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Supplemental Table 1

Cluster	T	x	y	z	Location
Within group contrasts young					
281	10.68	-45	48	-13	Frontal_Inf_Orb_L
35703	9.97	-30	-2	-34	Temporal_Inf_L
	9.59	-44	24	-20	Frontal_Inf_Orb_L
	9.42	42	-22	-26	Temporal_Inf_R
	9.25	-31	-14	-28	ParaHippocampal_L
	9.25	-16	-38	4	Precuneus_L
	8.67	-50	-54	28	SupraMarginal_L
	8.67	58	-56	42	Parietal_Inf_R
	8.54	-46	-22	-30	Temporal_Inf_L
	8.5	-38	-44	-13	Temporal_Inf_L
	8.37	64	-62	2	Temporal_Mid_R
	8.33	62	-66	-6	Temporal_Inf_R
	8.29	42	-56	-18	Temporal_Inf_R
	7.87	38	20	26	Frontal_Inf_Tri_R
	7.75	-22	-57	34	Precuneus_L
	7.62	-42	-50	30	SupraMarginal_L
	7.58	30	-16	-28	ParaHippocampal_R
	7.54	23	-61	35	Precuneus_R
	7.5	-38	-32	-30	Temporal_Inf_L
	7.24	37	-61	13	Temporal_Mid_R
	7.08	-52	-64	38	Parietal_Inf_L
	6.99	22	-22	-22	ParaHippocampal_R
	6.83	-34	-37	22	Rolandic_Oper_L
	6.83	20	-80	48	Precuneus_R
	6.78	28	-62	24	Precuneus_R
	6.74	30	-2	-30	Amygdala_R
	6.7	42	-36	-23	Temporal_Inf_R
	6.66	42	-40	-12	Temporal_Inf_R
	6.45	-54	-58	16	Temporal_Mid_L
	6.45	56	-48	30	SupraMarginal_R
	6.41	37	19	40	Frontal_Mid_R
	6.36	45	-76	-12	Temporal_Inf_R
	6.28	68	-48	6	Temporal_Mid_R
	6.03	-56	-16	-20	Temporal_Mid_L
	6.03	42	24	-18	Frontal_Inf_Orb_R
	5.99	-30	-38	4	Hippocampus_L
	5.99	29	-26	18	Insula_R
	5.95	-19	-39	40	Cingulum_Mid_L
	5.9	30	-22	56	Precentral_R
	5.86	-30	-34	14	Rolandic_Oper_L
	5.86	44	34	22	Frontal_Inf_Tri_R
	5.78	42	30	34	Frontal_Mid_R
	5.78	25	-36	39	Postcentral_R
	5.74	-28	-24	18	Insula_L
	5.74	-37	-52	21	Temporal_Mid_L
	5.74	-17	-24	41	Cingulum_Mid_L
	5.69	31	13	-33	Temporal_Pole_Mid_R
	5.65	-40	-10	-40	Temporal_Inf_L
	5.65	30	-46	38	Parietal_Inf_R
	5.57	56	-76	-12	Temporal_Inf_R
	5.57	38	-50	22	Temporal_Mid_R
	5.49	-12	-20	52	Supp_Motor_Area_L
	5.36	30	-29	8	Hippocampus_R
	5.36	-66	-56	8	Temporal_Mid_L
	5.36	-11	-21	63	Supp_Motor_Area_L
	5.32	-64	10	8	Frontal_Inf_Oper_L
	5.28	59	18	7	Frontal_Inf_Tri_R
	5.23	12	-37	28	Cingulum_Post_R
	5.23	-28	6	30	Frontal_Mid_L
	5.15	-18	-1	47	Frontal_Sup_L
	5.15	30	2	48	Frontal_Mid_R

Supplemental Table 1
(Continued)

Cluster	T	x	y	z	Location
	5.11	55	40	24	Frontal_Inf_Tri_R
	5.07	-16	-10	-16	Hippocampus_L
	5.02	35	6	26	Frontal_Inf_Oper_R
	5.02	26	-57	46	Parietal_Inf_R
	5.02	-40	-78	46	Parietal_Inf_L
	4.98	-32	-34	34	Parietal_Inf_L
	4.94	28	-36	-10	ParaHippocampal_R
	4.94	-28	-44	36	Parietal_Inf_L
	4.9	36	-27	34	SupraMarginal_R
	4.86	0	-42	16	Cingulum_Post_R
	4.86	-12	-32	78	Postcentral_L
	4.73	42	-76	6	Temporal_Mid_R
	4.69	-58	-34	-26	Temporal_Inf_L
	4.69	-11	-42	25	Cingulum_Post_L
	4.65	38	-8	-36	Temporal_Inf_R
	4.65	10	-47	17	Precuneus_R
	4.61	42	-40	32	SupraMarginal_R
	4.61	-2	-57	36	Precuneus_L
	4.61	-16	-6	41	Cingulum_Mid_L
	4.61	-23	-18	49	Precentral_L
	4.56	6	-50	54	Precuneus_R
	4.52	52	6	-31	Temporal_Inf_R
	4.52	22	-4	50	Frontal_Sup_R
	4.48	-10	-34	-2	Hippocampus_L
	4.48	19	-13	51	Cingulum_Mid_R
	4.48	3	-29	58	Supp_Motor_Area_R
	4.44	38	-60	2	Temporal_Mid_R
	4.35	46	-32	-30	Temporal_Inf_R
	4.35	58	14	-20	Temporal_Pole_Mid_R
	4.35	-65	-47	4	Temporal_Mid_L
	4.31	38	24	-33	Temporal_Pole_Mid_R
	4.31	62	-20	-24	Temporal_Inf_R
	4.31	30	0	38	Frontal_Mid_R
	4.23	22	-36	0	Hippocampus_R
	4.23	36	-36	13	Temporal_Sup_R
	4.23	52	-60	24	Temporal_Mid_R
	4.19	-58	10	-18	Temporal_Mid_L
	4.19	48	24	-2	Frontal_Inf_Orb_R
	4.19	14	-66	48	Precuneus_R
	4.19	8	-36	56	Precuneus_R
	4.1	-18	-34	-18	ParaHippocampal_L
	4.1	38	26	58	Frontal_Mid_R
	4.1	-15	-30	69	Postcentral_L
	4.06	-16	-52	4	Precuneus_L
	4.06	-28	-64	6	Precuneus_L
	4.02	64	-32	-22	Temporal_Inf_R
	4.02	12	-40	-6	ParaHippocampal_R
	4.02	-33	-5	35	Precentral_L
	3.94	-39	-50	7	Temporal_Mid_L
	3.94	-31	8	20	Insula_L
	3.94	2	-51	70	Precuneus_R
	3.89	-46	26	-2	Frontal_Inf_Orb_L
	3.89	54	42	14	Frontal_Inf_Tri_R
	3.89	-34	-62	13	Temporal_Mid_L
	3.89	19	-28	52	Supp_Motor_Area_R
	3.89	6	-65	69	Precuneus_R
	3.85	50	-64	-26	Temporal_Inf_R
	3.85	60	-30	-14	Temporal_Inf_R
	3.81	20	-44	42	Precuneus_R
	3.81	-6	-44	77	Precuneus_L
	3.77	38	32	-1	Frontal_Inf_Orb_R

Supplemental Table 1
(Continued)

Cluster	T	x	y	z	Location
	3.77	58	20	24	Frontal_Inf_Tri_R
	3.77	30	-36	66	Postcentral_R
	3.73	22	-30	12	Hippocampus_R
	3.73	-29	-24	42	Postcentral_L
	3.73	4	-13	42	Cingulum_Mid_R
	3.73	38	40	50	Frontal_Mid_R
	3.73	-18	-69	56	Precuneus_L
	3.68	-45	14	-30	Temporal_Pole_Mid_L
	3.68	-54	24	5	Frontal_Inf_Tri_L
	3.68	-26	6	40	Frontal_Mid_L
	3.68	22	30	40	Frontal_Mid_R
	3.68	-20	-51	50	Parietal_Inf_L
	3.64	-57	-74	8	Temporal_Mid_L
	3.6	-39	16	-36	Temporal_Pole_Mid_L
	3.56	17	-44	-12	ParaHippocampal_R
	3.56	24	12	36	Frontal_Sup_R
	3.56	46	14	58	Frontal_Mid_R
	3.56	8	-34	76	Postcentral_R
	3.52	-66	-26	-24	Temporal_Inf_L
	3.52	-8	-69	57	Precuneus_L
	3.52	-4	-75	64	Precuneus_L
	3.48	-34	-70	10	Temporal_Mid_L
	3.48	54	-78	18	Temporal_Mid_R
	3.48	31	32	54	Frontal_Sup_R
	3.48	6	-12	57	Supp_Motor_Area_R
	3.48	8	-66	60	Precuneus_R
	3.43	34	-20	38	Precuneus_R
	3.39	-6	-82	60	Precuneus_L
	3.35	-46	-2	16	Postcentral_L
	3.35	20	-18	40	Cingulum_Mid_R
	3.35	52	-58	58	Parietal_Inf_R
	3.31	34	6	18	Insula_R
	3.31	2	-18	70	Supp_Motor_Area_R
	3.31	0	-38	74	Precuneus_L
	3.27	55	43	0	Frontal_Inf_Tri_R
	3.27	11	-31	7	Hippocampus_R
476	5.82	40	60	10	Frontal_Mid_R
	5.53	22	62	24	Frontal_Mid_R
	4.19	36	62	18	Frontal_Mid_R
	4.15	34	53	26	Frontal_Mid_R
Deactivation					
858	-4.59	-10	44	6	Cingulum_Ant_L
	-4.05	10	46	6	Cingulum_Ant_R
	-3.76	12	58	8	Frontal_Sup_Medial_R
	-3.47	10	46	22	Cingulum_Ant_R
	-3.47	10	46	22	Cingulum_Ant_R
Within group contrasts old					
53115	13.78	-38	58	20	Frontal_Mid_L
	13.56	-37	49	34	Frontal_Mid_L
	13.51	14	-76	42	Precuneus_R
	12.37	48	-26	-28	Temporal_Inf_R
	11.83	-8	-54	50	Precuneus_L
	10.86	-34	57	28	Frontal_Mid_L
	10.7	-10	-72	48	Precuneus_L
	10.54	18	-56	45	Precuneus_R
	10.11	22	-42	44	Postcentral_R
	9.83	10	-32	42	Cingulum_Mid_R
	9.56	-46	24	48	Frontal_Mid_L
	9.4	16	-42	36	Precuneus_R
	9.35	-62	-54	-24	Temporal_Inf_L
	9.35	16	-72	58	Precuneus_R

Supplemental Table 1
(Continued)

Cluster	T	x	y	z	Location
	9.24	-44	22	38	Frontal_Mid_L
	9.08	-34	-50	54	Parietal_Inf_L
	8.86	54	-26	-14	Temporal_Inf_R
	8.86	-46	48	10	Frontal_Inf_Tri_L
	8.81	42	28	24	Frontal_Inf_Tri_R
	8.75	-4	-55	9	Precuneus_L
	8.54	-64	-48	-8	Temporal_Mid_L
	8.54	5	-55	44	Precuneus_R
	8.54	-38	-40	52	Parietal_Inf_L
	8.38	46	-75	17	Temporal_Mid_R
	8.38	24	-62	18	Precuneus_R
	8.21	46	-28	-18	Temporal_Inf_R
	8.05	-55	18	-34	Temporal_Pole_Mid_L
	8.05	24	22	-24	Frontal_Inf_Orb_R
	8	-52	-40	-2	Temporal_Mid_L
	7.73	21	8	-21	Temporal_Pole_Sup_R
	7.67	-34	-34	5	Hippocampus_L
	7.57	28	-34	44	Postcentral_R
	7.51	24	-30	0	Hippocampus_R
	7.4	70	-48	-10	Temporal_Inf_R
	7.35	10	-56	12	Precuneus_R
	7.3	-30	10	-22	Frontal_Inf_Orb_L
	7.3	14	6	42	Cingulum_Mid_R
	7.24	13	-66	24	Precuneus_R
	7.24	-30	-32	56	Postcentral_L
	7.13	36	-57	15	Temporal_Mid_R
	7.02	16	-56	18	Precuneus_R
	7.02	46	-57	21	Temporal_Mid_R
	7.02	38	22	36	Frontal_Mid_R
	6.81	-18	-66	30	Precuneus_L
	6.75	-20	10	-24	Frontal_Inf_Orb_L
	6.75	38	-65	18	Temporal_Mid_R
	6.75	30	32	53	Frontal_Mid_R
	6.75	12	-24	60	Supp_Motor_Area_R
	6.7	-36	-65	18	Temporal_Mid_L
	6.65	-54	-64	-6	Temporal_Inf_L
	6.65	28	-60	30	Precuneus_R
	6.59	30	14	-22	Frontal_Inf_Orb_R
	6.59	-26	-76	44	Parietal_Inf_L
	6.54	-15	-56	22	Precuneus_L
	6.43	38	-48	50	Parietal_Inf_R
	6.38	42	-50	-28	Temporal_Inf_R
	6.38	-44	-70	-7	Temporal_Inf_L
	6.38	-24	-40	44	Parietal_Inf_L
	6.38	36	-70	54	Parietal_Inf_R
	6.38	24	-42	62	Postcentral_R
	6.32	-7	-25	36	Cingulum_Mid_L
	6.32	12	-10	48	Cingulum_Mid_R
	6.27	66	-34	-22	Temporal_Inf_R
	6.27	-52	-31	-22	Temporal_Inf_L
	6.27	36	-32	0	Hippocampus_R
	6.21	-56	34	6	Frontal_Inf_Tri_L
	6.21	48	14	12	Frontal_Inf_Oper_R
	6.21	-20	-50	50	Parietal_Inf_L
	6.16	40	-60	43	Parietal_Inf_R
	6.11	41	-41	-1	Temporal_Sup_R
	6.05	-22	0	-20	Amygdala_L
	6	62	-18	-32	Temporal_Inf_R
	5.94	42	-50	-6	Temporal_Inf_R
	5.94	-12	-42	32	Cingulum_Post_L
	5.84	49	-71	4	Temporal_Mid_R
	5.78	46	-16	-34	Temporal_Inf_R

Supplemental Table 1
(Continued)

Cluster	T	x	y	z	Location
	5.78	38	62	10	Frontal_Mid_R
	5.73	-12	-4	-14	Amygdala_L
	5.73	-16	-4	48	Supp_Motor_Area_L
	5.73	32	17	55	Frontal_Mid_R
	5.73	12	-12	58	Supp_Motor_Area_R
	5.67	56	-38	-15	Temporal_Inf_R
	5.67	48	-74	-11	Temporal_Inf_R
	5.62	-30	-28	12	Insula_L
	5.62	-2	-24	54	Supp_Motor_Area_L
	5.62	18	26	54	Frontal_Sup_R
	5.57	-44	-28	-30	Temporal_Inf_L
	5.57	-24	-86	46	Parietal_Inf_L
	5.57	24	-55	53	Parietal_Inf_R
	5.51	5	-55	66	Precuneus_R
	5.46	41	-47	25	Temporal_Mid_R
	5.46	54	-64	36	Parietal_Inf_R
	5.46	-6	-18	58	Supp_Motor_Area_L
	5.46	16	34	64	Frontal_Sup_Medial_R
	5.4	-46	22	-41	Temporal_Pole_Mid_L
	5.4	38	-62	-12	Temporal_Inf_R
	5.4	52	-44	19	Temporal_Mid_R
	5.4	-6	-80	38	Precuneus_L
	5.35	3	24	47	Frontal_Sup_Medial_R
	5.3	-19	-11	-23	ParaHippocampal_L
	5.24	-52	-74	24	Temporal_Mid_L
	5.24	-44	-14	53	Postcentral_L
	5.24	29	-50	66	Postcentral_R
	5.13	56	-44	11	Temporal_Mid_R
	5.13	41	54	21	Frontal_Mid_R
	5.13	29	44	46	Frontal_Mid_R
	5.13	4	-8	58	Supp_Motor_Area_R
	5.08	-32	-58	35	Parietal_Inf_L
	5.03	-40	-57	-7	Temporal_Inf_L
	5.03	30	56	34	Frontal_Mid_R
	4.97	60	-63	-24	Temporal_Inf_R
	4.97	35	-49	60	Postcentral_R
	4.92	-42	-38	2	Temporal_Sup_L
	4.92	-1	-33	24	Cingulum_Post_L
	4.86	62	-63	6	Temporal_Mid_R
	4.86	-41	-55	24	Temporal_Mid_L
	4.86	39	-53	36	Parietal_Inf_R
	4.86	-16	40	58	Frontal_Sup_L
	4.81	-49	-30	29	SupraMarginal_L
	4.81	4	4	42	Cingulum_Mid_R
	4.76	-59	-52	18	Temporal_Mid_L
	4.76	38	-36	23	Rolandic_Oper_R
	4.7	-59	15	-17	Temporal_Pole_Sup_L
	4.7	-16	-24	-8	Hippocampus_L
	4.7	42	37	44	Frontal_Mid_R
	4.65	45	-62	-21	Temporal_Inf_R
	4.65	61	-44	1	Temporal_Mid_R
	4.65	-51	-53	21	Temporal_Mid_L
	4.65	-52	12	52	Precentral_L
	4.65	-27	29	52	Frontal_Mid_L
	4.65	-18	-30	54	Postcentral_L
	4.65	-2	-48	80	Precuneus_L
	4.59	-31	25	-36	Temporal_Pole_Mid_L
	4.59	38	-66	-4	Temporal_Inf_R
	4.59	36	-18	52	Precentral_R
	4.59	5	47	52	Frontal_Sup_Medial_R
	4.54	-44	-18	-30	Temporal_Inf_L

Supplemental Table 1
(Continued)

Cluster	T	x	y	z	Location
	4.54	66	-12	-16	Temporal_Mid_R
	4.54	-20	-66	58	Precuneus_L
	4.54	15	-48	68	Postcentral_R
	4.49	62	-54	-4	Temporal_Inf_R
	4.49	-32	6	52	Frontal_Mid_L
	4.43	-40	20	-36	Temporal_Pole_Mid_L
	4.43	-37	21	-26	Temporal_Pole_Sup_L
	4.43	-28	9	36	Frontal_Mid_L
	4.43	56	-50	42	Parietal_Inf_R
	4.43	-24	8	64	Frontal_Mid_L
	4.38	-48	3	-40	Temporal_Inf_L
	4.38	56	-41	34	SupraMarginal_R
	4.38	-32	-32	37	Parietal_Inf_L
	4.38	30	-22	44	Postcentral_R
	4.32	29	-18	17	Insula_R
	4.32	-32	14	28	Frontal_Inf_Tri_L
	4.32	26	-4	49	Frontal_Mid_R
	4.27	-32	-10	-24	ParaHippocampal_L
	4.27	-48	18	-24	Temporal_Pole_Mid_L
	4.27	-52	19	15	Frontal_Inf_Tri_L
	4.27	6	-18	80	Supp_Motor_Area_R
	4.21	-51	-31	19	Temporal_Sup_L
	4.21	44	-14	20	Rolandic_Oper_R
	4.21	2	2	58	Supp_Motor_Area_R
	4.11	38	-22	-30	ParaHippocampal_R
	4.11	48	46	19	Frontal_Mid_R
	4.11	26	5	48	Frontal_Mid_R
	4.11	14	56	45	Frontal_Sup_R
	4.05	30	12	16	Insula_R
	4	29	-15	-18	Hippocampus_R
	4	-53	40	-13	Frontal_Inf_Orb_L
	4	42	-12	52	Precentral_R
	3.94	-24	-6	-33	ParaHippocampal_L
	3.94	12	0	-14	Hippocampus_R
	3.94	37	11	-5	Insula_R
	3.94	30	-18	-6	Hippocampus_R
	3.94	47	-24	20	Rolandic_Oper_R
	3.89	28	2	35	Frontal_Inf_Oper_R
	3.89	-38	14	64	Frontal_Mid_L
	3.84	-46	-46	42	Parietal_Inf_L
	3.84	38	7	66	Frontal_Mid_R
	3.78	40	-56	60	Parietal_Inf_R
	3.73	-48	-2	16	Postcentral_L
	3.73	-28	20	54	Frontal_Mid_L
	3.67	20	-11	-24	ParaHippocampal_R
	3.67	49	44	6	Frontal_Inf_Tri_R
	3.67	-42	6	44	Precentral_L
	3.62	38	29	-25	Frontal_Inf_Orb_R
	3.62	-30	-18	2	Insula_L
	3.62	-20	-14	52	Frontal_Sup_L
	3.57	15	-28	-16	ParaHippocampal_R
	3.57	14	-24	-9	ParaHippocampal_R
	3.57	-12	-37	0	Precuneus_L
	3.57	-47	11	11	Frontal_Inf_Oper_L
	3.57	39	-13	32	Postcentral_R
	3.57	-30	41	50	Frontal_Mid_L
	3.57	-34	6	65	Frontal_Mid_L
	3.51	-42	10	-42	Temporal_Inf_L
	3.46	16	-10	-10	Hippocampus_R
	3.46	34	-18	38	Precentral_R
	3.46	-40	-80	40	Parietal_Inf_L

Supplemental Table 1
(Continued)

Cluster	T	x	y	z	Location
	3.3	28	-8	-10	Amygdala_R
Within group contrasts AD					
48691	13.63	44	16	16	Frontal_Inf_Oper_R
	11.23	46	10	24	Frontal_Inf_Tri_R
	11.07	-32	-62	38	Parietal_Inf_L
	11.07	-8	14	60	Supp_Motor_Area_L
	10.85	-32	16	16	Frontal_Inf_Oper_L
	10.64	46	50	23	Frontal_Mid_R
	10.48	-50	-58	-6	Temporal_Inf_L
	9.84	-46	14	4	Frontal_Inf_Tri_L
	9.84	31	4	42	Frontal_Mid_R
	9.73	-32	2	22	Insula_L
	9.57	36	-16	-26	ParaHippocampal_R
	9.36	-30	-74	40	Parietal_Inf_L
	9.25	33	-2	34	Frontal_Mid_R
	9.09	48	4	18	Frontal_Inf_Oper_R
	8.77	9	-29	41	Cingulum_Mid_R
	7.65	-45	-6	34	Postcentral_L
	7.65	36	-58	40	Parietal_Inf_R
	7.54	44	8	34	Frontal_Inf_Oper_R
	7.54	-8	-32	36	Cingulum_Mid_L
	7.49	-48	4	17	Frontal_Inf_Oper_L
	7.38	40	-70	24	Temporal_Mid_R
	7.27	-41	2	37	Precentral_L
	7.27	44	-50	38	Parietal_Inf_R
	7.16	56	-58	2	Temporal_Mid_R
	7.16	20	16	66	Frontal_Sup_R
	7.06	-37	-9	36	Precentral_L
	7.06	6	14	58	Supp_Motor_Area_R
	6.9	-20	-20	-10	Hippocampus_L
	6.79	-62	-60	16	Temporal_Mid_L
	6.74	-44	-58	40	Parietal_Inf_L
	6.63	-56	22	22	Frontal_Inf_Tri_L
	6.52	26	12	58	Frontal_Mid_R
	6.42	58	-61	-10	Temporal_Inf_R
	6.42	-34	-32	34	Parietal_Inf_L
	6.42	22	34	62	Frontal_Sup_R
	6.2	-56	-48	-20	Temporal_Inf_L
	6.2	43	-52	17	Temporal_Mid_R
	6.15	-44	26	12	Frontal_Inf_Tri_L
	6.15	-39	-61	22	Temporal_Mid_L
	6.1	-46	-58	58	Parietal_Inf_L
	6.04	26	-66	30	Precuneus_R
	5.99	-48	20	-12	Frontal_Inf_Orb_L
	5.99	-42	-66	4	Temporal_Mid_L
	5.99	-2	-40	16	Cingulum_Post_L
	5.99	-18	-72	28	Precuneus_L
	5.93	-20	-61	35	Precuneus_L
	5.88	-52	-36	-12	Temporal_Mid_L
	5.88	16	-25	-9	ParaHippocampal_R
	5.88	8	-44	16	Precuneus_R
	5.83	-67	-29	-18	Temporal_Inf_L
	5.83	18	-52	38	Precuneus_R
	5.83	12	-78	64	Precuneus_R
	5.72	-44	29	37	Frontal_Mid_L
	5.72	20	26	52	Frontal_Sup_R
	5.72	26	-8	58	Frontal_Sup_R
	5.67	66	-50	0	Temporal_Mid_R
	5.61	-37	-42	34	Parietal_Inf_L
	5.56	70	-47	-16	Temporal_Inf_R
	5.56	-46	50	13	Frontal_Inf_Tri_L
	5.56	0	-34	26	Cingulum_Post_L

Supplemental Table 1
(Continued)

Cluster	T	x	y	z	Location
	5.56	-8	-24	44	Cingulum_Mid.L
	5.51	-53	-58	26	Temporal_Mid.L
	5.51	-54	-50	34	SupraMarginal.L
	5.51	42	6	48	Frontal_Mid.R
	5.45	33	30	18	Frontal_Mid.R
	5.45	-34	-2	61	Precentral.L
	5.4	6	2	71	Supp_Motor_Area.R
	5.35	64	-52	-10	Temporal_Inf.R
	5.35	20	-18	46	Cingulum_Mid.R
	5.35	-28	10	49	Frontal_Mid.L
	5.24	20	-47	50	Precuneus.R
	5.19	16	-60	26	Precuneus.R
	5.13	-36	-24	-24	Temporal_Inf.L
	5.13	-56	-76	4	Temporal_Mid.L
	5.13	44	56	12	Frontal_Mid.R
	5.13	10	-70	26	Precuneus.R
	5.13	14	-62	40	Precuneus.R
	5.13	0	0	76	Supp_Motor_Area.R
	5.08	-44	54	-1	Frontal_Mid.Orb.L
	5.08	22	-36	44	Postcentral.R
	5.08	46	6	58	Frontal_Mid.R
	5.08	36	7	68	Frontal_Sup.R
	5.03	-54	-64	-24	Temporal_Inf.L
	5.03	-50	-36	-24	Temporal_Inf.L
	5.03	32	48	8	Frontal_Mid.R
	5.03	-60	31	14	Frontal_Inf.Tri.L
	5.03	14	3	45	Cingulum_Mid.R
	5.03	34	18	58	Frontal_Mid.R
	5.03	-10	6	74	Frontal_Sup.L
	4.97	32	-14	40	Precentral.R
	4.92	22	-68	38	Precuneus.R
	4.92	36	-69	56	Parietal_Inf.R
	4.87	28	-20	-15	Hippocampus.R
	4.87	-8	-48	16	Precuneus.L
	4.87	-64	6	34	Precentral.L
	4.87	14	16	48	Frontal_Sup.R
	4.87	34	-8	64	Frontal_Sup.R
	4.81	30	0	-10	Amygdala.R
	4.81	36	54	34	Frontal_Mid.R
	4.81	10	14	40	Cingulum_Mid.R
	4.76	-14	-28	-24	ParaHippocampal.L
	4.76	42	-28	-18	Temporal_Inf.R
	4.76	41	-31	29	SupraMarginal.R
	4.71	50	-45	-30	Temporal_Inf.R
	4.65	50	-76	-12	Temporal_Inf.R
	4.65	-12	-34	-12	ParaHippocampal.L
	4.6	18	-60	12	Precuneus.R
	4.6	54	-66	36	Parietal_Inf.R
	4.54	16	-34	-20	ParaHippocampal.R
	4.54	-54	-68	-14	Temporal_Inf.L
	4.54	60	-50	26	SupraMarginal.R
	4.54	60	-46	34	SupraMarginal.R
	4.54	10	37	39	Cingulum_Mid.R
	4.49	52	-28	-30	Temporal_Inf.R
	4.49	46	-40	-22	Temporal_Inf.R
	4.49	46	48	2	Frontal_Inf.Tri.R
	4.49	-12	-76	34	Precuneus.L
	4.49	58	-40	40	SupraMarginal.R
	4.44	32	44	19	Frontal_Mid.R
	4.44	9	-71	37	Precuneus.R
	4.44	32	22	47	Frontal_Mid.R
	4.38	-62	-60	-26	Temporal_Inf.L

Supplemental Table 1
(Continued)

Cluster	T	x	y	z	Location
	4.38	4	-78	37	Precuneus_R
	4.38	-13	-82	44	Precuneus_L
	4.38	21	-79	49	Precuneus_R
	4.33	34	-4	5	Insula_R
	4.33	3	-43	34	Cingulum_Mid_R
	4.28	18	-37	-11	ParaHippocampal_R
	4.28	-10	-46	0	Precuneus_L
	4.28	-4	-8	70	Supp_Motor_Area_L
	4.22	50	-41	-12	Temporal_Inf_R
	4.22	36	39	34	Frontal_Mid_R
	4.22	-37	9	64	Frontal_Mid_L
	4.17	-28	-24	12	Insula_L
	4.17	58	-58	24	Temporal_Sup_R
	4.17	39	35	43	Frontal_Mid_R
	4.12	-30	-32	24	Insula_L
	4.12	10	-18	64	Supp_Motor_Area_R
	4.06	-42	-50	26	SupraMarginal_L
	4.06	32	46	30	Frontal_Mid_R
	4.06	6	-6	46	Cingulum_Mid_R
	4.06	-40	14	52	Frontal_Mid_L
	4.06	-17	-75	58	Precuneus_L
	4.06	16	0	58	Frontal_Sup_R
	4.01	10	28	38	Cingulum_Mid_R
	3.96	-10	-52	6	Precuneus_L
	3.96	-10	-78	64	Precuneus_L
	3.9	-67	-49	-1	Temporal_Mid_L
	3.9	38	60	2	Frontal_Mid_R
	3.85	-48	-22	-34	Temporal_Inf_L
	3.85	-48	-24	-20	Temporal_Inf_L
	3.85	36	-36	-18	ParaHippocampal_R
	3.85	36	-4	-6	Insula_R
	3.85	-30	-19	4	Insula_L
	3.85	25	40	44	Frontal_Mid_R
	3.8	44	-24	-34	Temporal_Inf_R
	3.8	28	66	-3	Frontal_Sup_Orb_R
	3.8	0	-64	28	Precuneus_L
	3.8	30	-46	38	Parietal_Inf_R
	3.74	46	-58	-28	Temporal_Inf_R
	3.74	41	-59	-13	Temporal_Inf_R
	3.74	10	-46	3	Precuneus_R
	3.74	32	-12	4	Insula_R
	3.74	-18	-26	46	Cingulum_Mid_L
	3.69	-62	-2	-8	Temporal_Mid_L
	3.69	-4	-8	40	Cingulum_Mid_L
	3.69	44	30	52	Frontal_Mid_R
	3.64	22	49	32	Frontal_Mid_R
	3.58	33	-7	22	Insula_R
	3.58	-39	25	55	Frontal_Mid_L
	3.53	-19	-14	72	Precentral_L
	3.42	22	-30	6	Hippocampus_R
	3.42	-2	-79	59	Precuneus_L
	3.42	-14	-4	75	Frontal_Sup_L
	3.37	-22	-38	46	Postcentral_L
	3.37	26	-24	50	Precentral_R
	3.32	42	-74	0	Temporal_Mid_R
	3.32	14	-56	6	Precuneus_R
	3.32	-6	24	43	Frontal_Sup_Medial_L
	3.32	4	38	54	Frontal_Sup_Medial_R
	3.26	39	34	2	Frontal_Inf_Tri_R
	3.26	25	62	20	Frontal_Mid_R

Supplemental Table 1
(Continued)

Cluster	T	x	y	z	Location
293	3.15	62	-56	-26	Temporal_Inf_R
	3.15	47	-79	8	Temporal_Mid_R
	4.54	4	-56	80	Precuneus_R
	3.74	-3	-47	80	Precuneus_L

Supplemental Table 2
(Continued)

Young and old		AD and old	
Overlap voxels	Location	Overlap voxels	Location
Group overlap			
29	Precentral_L	78	Precentral_L
217	Precentral_R	116	Precentral_R
47	Rolandic_Oper_L	30	Rolandic_Oper_L
198	Supp_Motor_Area_L	55	Supp_Motor_Area_L
412	Supp_Motor_Area_R	429	Supp_Motor_Area_R
121	Insula_L	73	Insula_L
92	Insula_R	53	Insula_R
703	Cingulum_Mid_L	714	Cingulum_Mid_L
540	Cingulum_Mid_R	1010	Cingulum_Mid_R
187	Cingulum_Post_L	339	Cingulum_Post_L
272	Cingulum_Post_R	255	Cingulum_Post_R
331	Hippocampus_L	258	Hippocampus_L
290	Hippocampus_R	186	Hippocampus_R
350	ParaHippocampal_L	193	ParaHippocampal_L
348	ParaHippocampal_R	264	ParaHippocampal_R
55	Amygdala_L	72	Postcentral_L
63	Amygdala_R	174	Postcentral_R
120	Postcentral_L	1917	Parietal_Inf_L
634	Postcentral_R	878	Parietal_Inf_R
849	Parietal_Inf_L	1329	Precuneus_L
538	Parietal_Inf_R	3264	Precuneus_R
1888	Precuneus_L	83	Temporal_Sup_R
3643	Precuneus_R	64	Temporal_Pole_Sup_L
43	Temporal_Sup_L	1917	Temporal_Mid_L
77	Temporal_Sup_R	2094	Temporal_Mid_R
125	Temporal_Pole_Sup_L	27	Temporal_Pole_Mid_L
29	Temporal_Pole_Sup_R	2354	Temporal_Inf_L
1236	Temporal_Mid_L	1725	Temporal_Inf_R
2294	Temporal_Mid_R	243	SupraMarginal_L
95	Temporal_Pole_Mid_L	693	SupraMarginal_R
1531	Temporal_Inf_L	35	Frontal_Sup_L
2274	Temporal_Inf_R	603	Frontal_Sup_R
224	SupraMarginal_L	1341	Frontal_Mid_L
653	SupraMarginal_R	2713	Frontal_Mid_R
68	Frontal_Sup_L	395	Frontal_Inf_Oper_L
157	Frontal_Sup_R	801	Frontal_Inf_Oper_R
113	Frontal_Mid_L	831	Frontal_Inf_Tri_L
1606	Frontal_Mid_R	1192	Frontal_Inf_Tri_R
66	Frontal_Inf_Oper_L		
409	Frontal_Inf_Oper_R		
93	Frontal_Inf_Tri_L		
1216	Frontal_Inf_Tri_R		
86	Frontal_Inf_Orb_L		
52	Frontal_Inf_Orb_R		