

Supplementary Material

Influence of *APOE* Genotype on Mortality and Cognitive Impairment

Supplementary Table 1. Neuropathological overview of eligible participants

Case No.	Cohort	CERAD score	Thal phase	Braak tau stage	Infarcts	CAA	Arterio	VCING	Braak LB stage	LATE-NC stage	PART	SVD in BG
DPM04/12	UMLCHA	0	0	II	0	0	1	Low	0	0-1	Definite	2
DPM05/05	UMLCHA	B	3	III	0	0	0	Low	0	0-1	Absent	1
DPM06/03	UMLCHA	A	5	IV	0	0	0	Low	0	0-1	Absent	2
DPM06/08	UMLCHA	B	3	IV	0	0	0	Low	0	0-1	Absent	1
DPM06/11	UMLCHA	C	4	IV	0	0	0	Low	0	0-1	Absent	2
DPM06/18	UMLCHA	C	4	IV	0	0	1	Low	0	2-3	Absent	2
DPM07/07	UMLCHA	0	0	I	0	1	1	Moderate	0	0-1	Definite	2
DPM07/10	UMLCHA	C	3	III	0	1	1	Moderate	0	0-1	Absent	2
DPM07/13	UMLCHA	0	0	0	0	0	1	Low	0	0-1	Absent	3
DPM08/04	UMLCHA	A	4	I	0	0	0	Low	0	0-1	Absent	2
DPM08/28	UMLCHA	A	3	0	1	0	1	High	0	0-1	Absent	2
DPM08/29	UMLCHA	A	5	II	0	1	1	Moderate	0	0-1	Absent	2
DPM09/05	UMLCHA	0	0	II	0	0	0	Low	0	0-1	Definite	2
DPM09/07	UMLCHA	B	4	III	0	0	1	Low	0	2-3	Absent	2
DPM09/13	BDR	B	3	II	0	0	0	Low	0	0-1	Absent	1
DPM09/14	BDR	B	3	IV	0	0	1	Low	0	0-1	Absent	1
DPM09/15	UMLCHA	C	4	IV	0	0	0	Low	0	0-1	Absent	1
DPM09/19	BDR	C	3	IV	0	0	0	Low	0	0-1	Absent	1
DPM09/21	UMLCHA	B	3	II	0	1	1	Moderate	0	0-1	Absent	3
DPM09/22	UMLCHA	B	3	III	0	1	0	Low	0	0-1	Absent	2
DPM09/24	UMLCHA	0	0	0	0	0	0	Low	0	0-1	Absent	1

DPM09/26	UMLCHA	0	0	I	0	0	0	Low	0	0-1	Definite	1
DPM09/27	BDR	C	3	VI	0	1	0	Low	0	0-1	Absent	2
DPM09/31	UMLCHA	0	0	I	0	0	0	Low	0	0-1	Definite	2
DPM09/35	BDR	B	4	III	1	1	0	High	0	0-1	Absent	1
DPM09/37	BDR	0	1	0	0	0	0	Low	0	0-1	Absent	1
DPM10/01	BDR	B	4	III	1	0	0	Moderate	0	0-1	Absent	2
DPM10/02	BDR	C	4	VI	0	0	0	Low	0	0-1	Absent	2
DPM10/04	BDR	B	3	III	0	0	1	Low	0	2-3	Absent	2
DPM10/07	UMLCHA	B	5	IV	1	1	1	High	0	2-3	Absent	3
DPM10/08	UMLCHA	B	5	III	0	1	1	Moderate	0	2-3	Absent	2
DPM10/09	BDR	C	5	V	0	1	0	Low	0	0-1	Absent	1
DPM10/10	BDR	C	3	VI	0	0	1	Low	0	0-1	Absent	2
DPM10/12	BDR	B	4	IV	1	1	0	High	0	0-1	Absent	1
DPM10/14	BDR	B	3	III	0	1	1	Moderate	0	2-3	Absent	2
DPM10/15	BDR	C	5	VI	0	1	0	Low	0	0-1	Absent	1
DPM10/16	UMLCHA	B	3	III	1	0	1	High	0	0-1	Absent	2
DPM10/18	BDR	B	3	III	0	1	0	Low	0	2-3	Absent	1
DPM10/20	BDR	B	4	IV	0	1	1	Moderate	0	2-3	Absent	2
DPM10/25	BDR	A	3	III	0	1	0	Low	0	0-1	Absent	1
DPM10/26	BDR	0	0	0	0	0	1	Low	0	0-1	Absent	2
DPM10/27	BDR	B	4	III	0	1	0	Low	0	0-1	Absent	1
DPM10/31	BDR	C	3	VI	0	1	0	Low	0	2-3	Absent	1
DPM10/40	UMLCHA	B	3	III	0	0	0	Low	0	0-1	Absent	1
DPM11/02	BDR	C	5	V	0	1	0	Low	0	0-1	Absent	0
DPM11/03	BDR	A	4	I	0	0	0	Low	0	2-3	Absent	0
DPM11/06	UMLCHA	A	1	II	0	0	0	Low	0	0-1	Possible	2
DPM11/07	UMLCHA	0	0	0	0	0	0	Low	0	0-1	Absent	1
DPM11/15	UMLCHA	0	0	I	0	0	1	Low	0	0-1	Definite	2

DPM11/20	UMLCHA	B	1	II	0	0	0	Low	0	0-1	Possible	2
DPM11/22	UMLCHA	0	0	0	0	0	1	Low	0	0-1	Absent	2
DPM11/25	UMLCHA	0	0	II	0	0	0	Low	0	0-1	Definite	0
DPM11/27	UMLCHA	A	1	II	0	0	0	Low	0	0-1	Possible	1
DPM11/28	BDR	C	5	VI	0	0	0	Low	0	0-1	Absent	0
DPM11/29	UMLCHA	0	0	II	0	0	0	Low	0	0-1	Definite	1
DPM12/03	BDR	C	5	VI	0	0	0	Low	0	0-1	Absent	1
DPM12/05	BDR	C	5	VI	0	1	0	Low	0	0-1	Absent	2
DPM12/09	UMLCHA	A	1	I	0	0	0	Low	0	0-1	Possible	1
DPM12/10	BDR	B	4	III	0	0	0	Low	0	0-1	Absent	1
DPM12/11	BDR	0	0	0	0	0	0	Low	0	0-1	Absent	1
DPM12/16	BDR	A	2	0	0	0	0	Low	0	0-1	Absent	0
DPM12/17	BDR	C	5	VI	0	1	0	Low	0	2-3	Absent	0
DPM12/20	BDR	A	3	III	0	0	0	Low	0	0-1	Absent	1
DPM12/21	BDR	B	5	IV	0	1	1	Moderate	0	2-3	Absent	3
DPM12/22	BDR	B	3	II	0	1	1	Moderate	0	0-1	Absent	3
DPM12/23	UMLCHA	0	0	I	0	0	0	Low	0	0-1	Definite	1
DPM12/24	BDR	A	3	V	1	1	0	High	0	2-3	Absent	2
DPM12/25	BDR	C	3	IV	0	1	0	Low	0	0-1	Absent	0
DPM12/28	UMLCHA	A	3	II	0	1	0	Low	0	0-1	Absent	1
DPM12/29	BDR	C	5	II	0	0	0	Low	0	0-1	Absent	0
DPM12/33	UMLCHA	B	4	III	0	1	1	Moderate	0	0-1	Absent	2
DPM12/34	UMLCHA	B	1	III	0	0	0	Low	0	0-1	Possible	1
DPM12/35	UMLCHA	A	3	II	0	1	0	Low	0	0-1	Absent	2
DPM13/10	UMLCHA	B	3	V	0	0	0	Low	0	0-1	Absent	1
DPM13/11	UMLCHA	B	3	IV	0	1	0	Low	0	2-3	Absent	0
DPM13/12	UMLCHA	A	1	II	0	0	0	Low	0	0-1	Possible	1
DPM13/16	UMLCHA	B	5	III	0	1	0	Low	0	2-3	Absent	3

DPM13/17	UMLCHA	B	3	III	1	1	1	High	0	2-3	Absent	2
DPM13/20	BDR	B	3	IV	0	0	0	Low	0	2-3	Absent	1
DPM13/21	UMLCHA	0	0	II	0	0	1	Low	0	0-1	Definite	2
DPM13/23	UMLCHA	A	0	II	0	0	0	Low	0	0-1	Definite	2
DPM13/25	BDR	A	2	II	0	0	0	Low	0	0-1	Possible	1
DPM13/30	BDR	C	3	IV	0	1	0	Low	0	0-1	Absent	0
DPM13/31	UMLCHA	0	0	II	0	0	0	Low	0	0-1	Definite	2
DPM13/32	UMLCHA	A	1	0	0	0	1	Low	0	0-1	Absent	0
DPM13/33	BDR	C	3	V	0	1	0	Low	0	0-1	Absent	0
DPM13/35	UMLCHA	0	0	I	1	0	0	Moderate	0	0-1	Definite	0
DPM13/36	UMLCHA	A	3	II	0	1	0	Low	0	0-1	Absent	0
DPM13/40	BDR	A	3	III	0	0	1	Low	0	2-3	Absent	0
DPM13/44	BDR	B	5	V	0	1	1	Moderate	0	0-1	Absent	2
DPM13/45	BDR	C	5	V	0	0	0	Low	0	0-1	Absent	0
DPM14/01	UMLCHA	B	4	IV	0	0	0	Low	0	0-1	Absent	0
DPM14/03	BDR	C	5	VI	0	0	0	Low	0	0-1	Absent	0
DPM14/04	UMLCHA	A	1	0	0	0	0	Low	0	0-1	Absent	1
DPM14/06	UMLCHA	B	1	II	0	1	0	Low	0	0-1	Possible	0
DPM14/08	BDR	A	2	0	0	0	1	Low	0	0-1	Absent	2
DPM14/09	BDR	A	2	I	0	0	1	Low	0	0-1	Possible	2
DPM14/11	UMLCHA	0	0	I	0	0	0	Low	0	0-1	Definite	2
DPM14/14	UMLCHA	B	3	II	0	1	0	Low	0	0-1	Absent	0
DPM14/16	UMLCHA	A	1	0	0	0	0	Low	0	0-1	Absent	0
DPM14/18	BDR	C	3	III	0	0	1	Low	0	0-1	Absent	2
DPM14/20	UMLCHA	0	0	0	0	0	0	Low	0	0-1	Absent	0
DPM14/22	BDR	C	5	VI	0	1	0	Low	0	0-1	Absent	2
DPM14/27	BDR	A	1	I	0	0	0	Low	0	0-1	Possible	0
DPM14/28	BDR	C	3	VI	0	0	0	Low	0	0-1	Absent	0

DPM14/29	UMLCHA	B	1	II	0	0	0	Low	0	0-1	Possible	0
DPM14/34	BDR	B	3	II	0	0	0	Low	0	0-1	Absent	2
DPM14/35	BDR	B	3	III	0	0	0	Low	0	0-1	Absent	2
DPM14/42	UMLCHA	B	3	III	0	0	0	Low	0	2-3	Absent	0
DPM14/46	UMLCHA	0	0	0	0	0	0	Low	0	0-1	Absent	1
DPM14/47	BDR	A	2	II	0	1	0	Low	0	0-1	Possible	1
DPM15/01	UMLCHA	A	1	I	0	0	1	Low	0	0-1	Possible	1
DPM15/05	UMLCHA	A	1	I	0	1	0	Low	0	0-1	Possible	1
DPM15/07	BDR	C	5	VI	0	0	0	Low	0	0-1	Absent	0
DPM15/11	UMLCHA	C	5	VI	0	1	1	Moderate	0	2-3	Absent	3
DPM15/14	UMLCHA	B	3	III	0	1	1	Moderate	0	0-1	Absent	2
DPM15/15	UMLCHA	0	0	II	1	0	0	Moderate	0	0-1	Definite	2
DPM15/19	UMLCHA	B	2	III	1	0	1	High	0	0-1	Possible	2
DPM15/20	BDR	C	5	VI	0	1	1	Moderate	0	0-1	Absent	1
DPM15/21	BDR	C	5	VI	0	1	1	Moderate	0	0-1	Absent	2
DPM15/22	BDR	A	2	I	0	0	1	Low	0	2-3	Possible	2
DPM15/26	UMLCHA	A	3	0	0	0	0	Low	0	0-1	Absent	1
DPM15/28	UMLCHA	0	0	II	1	0	0	Moderate	0	0-1	Definite	1
DPM15/29	BDR	C	5	V	0	0	0	Low	0	0-1	Absent	1
DPM15/30	UMLCHA	A	2	II	0	0	0	Low	0	0-1	Possible	0
DPM15/31	UMLCHA	A	3	I	0	0	0	Low	0	0-1	Absent	1
DPM15/42	UMLCHA	B	5	III	0	1	0	Low	0	0-1	Absent	0
DPM15/48	BDR	C	5	VI	0	0	1	Low	0	2-3	Absent	0
DPM16/01	UMLCHA	B	4	III	0	0	0	Low	0	2-3	Absent	1
DPM16/02	BDR	A	1	II	1	0	1	High	0	0-1	Possible	3
DPM16/03	UMLCHA	C	3	V	0	1	0	Low	0	0-1	Absent	0
DPM16/06	BDR	0	0	0	0	0	0	Low	0	0-1	Absent	0
DPM16/07	BDR	0	0	I	1	0	0	Moderate	0	0-1	Definite	0

DPM16/08	BDR	B	3	IV	0	1	1	Moderate	0	0-1	Absent	3
DPM16/10	BDR	C	5	VI	0	1	0	Low	0	0-1	Absent	0
DPM16/11	BDR	0	0	I	1	0	0	Moderate	0	0-1	Definite	2
DPM16/12	UMLCHA	0	0	II	0	0	0	Low	0	0-1	Definite	2
DPM16/13	UMLCHA	C	5	V	0	0	0	Low	0	0-1	Absent	2
DPM16/14	BDR	C	4	V	0	0	0	Low	0	2-3	Absent	0
DPM16/15	UMLCHA	B	2	II	1	1	1	High	0	0-1	Possible	2
DPM16/16	BDR	C	3	V	0	1	0	Low	0	2-3	Absent	0
DPM16/18	UMLCHA	B	3	I	0	0	1	Low	0	0-1	Absent	2
DPM16/19	UMLCHA	B	2	II	1	0	1	High	0	0-1	Possible	3
DPM16/23	UMLCHA	0	0	I	0	0	0	Low	0	0-1	Definite	0
DPM16/24	UMLCHA	0	0	I	0	0	0	Low	0	0-1	Definite	0
DPM16/29	BDR	A	2	0	0	0	0	Low	0	0-1	Absent	0
DPM16/31	BDR	A	2	I	0	0	0	Low	0	0-1	Possible	1
DPM16/35	BDR	B	2	II	0	0	0	Low	0	0-1	Possible	2
DPM16/37	UMLCHA	B	2	III	0	1	0	Low	0	2-3	Possible	0
DPM16/38	BDR	A	3	I	0	0	0	Low	0	0-1	Absent	1
DPM16/41	UMLCHA	A	2	I	0	1	0	Low	0	0-1	Possible	0
DPM16/43	UMLCHA	B	4	III	0	0	0	Low	0	0-1	Absent	0
DPM16/44	BDR	A	3	II	0	1	0	Low	0	0-1	Absent	0
DPM16/45	UMLCHA	B	5	III	0	1	0	Low	0	2-3	Absent	0
DPM17/03	BDR	0	0	I	0	0	0	Low	0	0-1	Definite	2
DPM17/04	UMLCHA	0	0	I	0	0	0	Low	0	0-1	Definite	0
DPM17/07	BDR	C	3	V	0	0	0	Low	0	0-1	Absent	0
DPM17/09	UMLCHA	0	0	I	0	0	0	Low	0	0-1	Definite	0
DPM17/17	BDR	A	3	I	0	1	0	Low	0	0-1	Absent	1
DPM17/22	UMLCHA	A	2	II	0	0	0	Low	0	0-1	Possible	1
DPM17/23	BDR	A	3	II	0	0	0	Low	0	0-1	Absent	1

DPM17/27	BDR	B	3	IV	0	1	1	Moderate	0	0-1	Absent	2
DPM17/29	UMLCHA	A	2	II	0	0	0	Low	0	0-1	Possible	1
DPM17/31	BDR	A	3	II	1	1	1	High	0	0-1	Absent	2
DPM17/32	UMLCHA	B	3	IV	0	0	0	Low	0	0-1	Absent	1
DPM17/36	BDR	A	3	I	0	0	0	Low	0	0-1	Absent	1
DPM17/37	BDR	C	3	V	0	0	0	Low	0	0-1	Absent	1
DPM17/38	UMLCHA	A	1	II	0	0	0	Low	0	0-1	Possible	1
DPM18/02	BDR	0	0	II	0	0	1	Low	0	0-1	Definite	3
DPM18/03	UMLCHA	0	0	0	0	0	0	Low	0	0-1	Absent	1
DPM18/05	BDR	0	0	I	0	0	0	Low	0	0-1	Definite	1
DPM18/07	BDR	0	1	0	0	0	0	Low	0	0-1	Absent	0
DPM18/09	UMLCHA	B	3	IV	0	1	1	Moderate	0	0-1	Absent	2
DPM18/11	UMLCHA	A	1	I	0	0	0	Low	0	0-1	Possible	3
DPM18/12	BDR	C	5	V	0	0	0	Low	0	0-1	Absent	3
DPM18/18	UMLCHA	A	2	III	0	0	0	Low	0	0-1	Possible	0
DPM18/21	BDR	C	3	VI	0	0	1	Low	0	0-1	Absent	2
DPM18/32	UMLCHA	B	2	II	0	0	1	Low	0	0-1	Possible	3
DPM18/38	UMLCHA	A	3	IV	1	1	1	High	0	0-1	Absent	3
DPM19/09	UMLCHA	0	1	II	0	0	1	Low	0	0-1	Absent	3
DPM19/12	UMLCHA	C	3	VI	0	0	0	Low	0	2-3	Absent	1
DPM19/20	UMLCHA	C	3	VI	0	0	1	Low	0	0-1	Absent	2

BDR, Brains for Dementia Research programme; BG, basal ganglia; CAA, cerebral amyloid angiopathy; CERAD, Consortium to Establish a Registry for Alzheimer's Disease; LATE-NC, limbic-predominant age-related TDP-43 encephalopathy-neuropathological change; LB, Lewy body; PART, primary age-related tauopathy; SVD, small vessel disease; UMLCHA, University of Manchester Longitudinal Study of Cognition in Normal Healthy Old Age; VCING, vascular cognitive impairment neuropathology guidelines