

Table S2. Summary of GLMM model results for the association between cognitive function and arthritis in CHARLS, HRS, and ELSA.

Effect	Term	Estimate OR	Standard errors	P value	Conf.low	Conf.high	Dataset	Model
fixed	(Intercept)	0.251476	0.049728	2.94E-12	0.170678	0.370525	CHARLS	memory_only
fixed	age	1.002967	0.003038	0.328071	0.99703	1.00894	CHARLS	memory_only
fixed	genderYes	0.703891	0.040888	1.50E-09	0.628146	0.788769	CHARLS	memory_only
fixed	ruralYes	1.083745	0.0505	0.084365	0.989153	1.187383	CHARLS	memory_only
fixed	marital_statusNever married/Other	0.883654	0.067022	0.102936	0.76159	1.025281	CHARLS	memory_only
fixed	marital_statusSeparated/Divorced/Widowed	1.171019	0.221507	0.403934	0.808262	1.696584	CHARLS	memory_only
fixed	educationSecondary	0.714415	0.057009	2.51E-05	0.610978	0.835363	CHARLS	memory_only
fixed	educationTertiary	0.646378	0.126739	0.026046	0.440136	0.949263	CHARLS	memory_only
fixed	drinking_statusYes	1.067908	0.056378	0.213308	0.962934	1.184326	CHARLS	memory_only
fixed	smoking_statusYes	0.98182	0.056892	0.751526	0.876413	1.099905	CHARLS	memory_only
fixed	bmi	1.002464	0.001985	0.213852	0.998582	1.006361	CHARLS	memory_only
fixed	depression_score	1.067739	0.004262	1.39E-60	1.059417	1.076125	CHARLS	memory_only
fixed	hypertensionYes	1.045453	0.053323	0.383489	0.945995	1.155367	CHARLS	memory_only
fixed	diabetesYes	1.07847	0.093145	0.381755	0.910524	1.277392	CHARLS	memory_only
fixed	heart_diseaseYes	1.691485	0.111225	1.31E-15	1.486952	1.924153	CHARLS	memory_only
fixed	strokeYes	1.397376	0.194959	0.016475	1.063054	1.83684	CHARLS	memory_only
fixed	cancerYes	1.016334	0.223815	0.94135	0.660064	1.5649	CHARLS	memory_only
fixed	psychiatric_disorderYes	1.477101	0.307016	0.060554	0.982851	2.219896	CHARLS	memory_only
fixed	memory_score	1.014019	0.024369	0.56238	0.967364	1.062925	CHARLS	memory_only
fixed	(Intercept)	0.269655	0.052792	2.16E-11	0.183723	0.395779	CHARLS	orientation_only
fixed	age	1.002024	0.003006	0.500358	0.996149	1.007933	CHARLS	orientation_only
fixed	genderYes	0.70917	0.041361	3.81E-09	0.632565	0.795052	CHARLS	orientation_only
fixed	ruralYes	1.068602	0.05039	0.159404	0.974266	1.172072	CHARLS	orientation_only
fixed	marital_statusNever married/Other	0.881587	0.066875	0.096626	0.759793	1.022904	CHARLS	orientation_only
fixed	marital_statusSeparated/Divorced/Widowed	1.176677	0.222564	0.389706	0.812186	1.704742	CHARLS	orientation_only
fixed	educationSecondary	0.72716	0.057612	5.79E-05	0.622573	0.849317	CHARLS	orientation_only
fixed	educationTertiary	0.664523	0.129814	0.036431	0.453136	0.97452	CHARLS	orientation_only
fixed	drinking_statusYes	1.06636	0.05631	0.2237	0.961514	1.182639	CHARLS	orientation_only
fixed	smoking_statusYes	0.979442	0.05678	0.720108	0.874245	1.097297	CHARLS	orientation_only
fixed	bmi	1.002473	0.001984	0.212015	0.998592	1.00637	CHARLS	orientation_only
fixed	depression_score	1.066614	0.004237	2.85E-59	1.058342	1.07495	CHARLS	orientation_only
fixed	hypertensionYes	1.04812	0.053492	0.357114	0.948351	1.158384	CHARLS	orientation_only
fixed	diabetesYes	1.07976	0.093283	0.3744	0.91157	1.278981	CHARLS	orientation_only
fixed	heart_diseaseYes	1.698964	0.111813	8.05E-16	1.49336	1.932877	CHARLS	orientation_only
fixed	strokeYes	1.395215	0.19463	0.016965	1.061451	1.833927	CHARLS	orientation_only

fixed	cancerYes	1.020157	0.224738	0.927818	0.662445	1.57103	CHARLS	orientation_only
fixed	psychiatric_disorderYes	1.481207	0.307808	0.058695	0.985663	2.225888	CHARLS	orientation_only
fixed	orientation_score	0.964116	0.023635	0.136047	0.918888	1.011571	CHARLS	orientation_only
fixed	(Intercept)	0.266297	0.051694	9.36E-12	0.182024	0.389586	CHARLS	executive_only
fixed	age	1.002068	0.002994	0.489341	0.996217	1.007953	CHARLS	executive_only
fixed	genderYes	0.716404	0.042185	1.48E-08	0.638316	0.804046	CHARLS	executive_only
fixed	ruralYes	1.074089	0.050066	0.125193	0.98031	1.176838	CHARLS	executive_only
fixed	marital_statusNever married/Other	0.877462	0.066631	0.085167	0.756121	1.018276	CHARLS	executive_only
fixed	marital_statusSeparated/Divorced/Widowed	1.164973	0.220453	0.419708	0.803969	1.688078	CHARLS	executive_only
fixed	educationSecondary	0.729479	0.057815	6.90E-05	0.624526	0.852069	CHARLS	executive_only
fixed	educationTertiary	0.665528	0.129982	0.037088	0.453859	0.975915	CHARLS	executive_only
fixed	drinking_statusYes	1.069307	0.056457	0.204376	0.964185	1.185889	CHARLS	executive_only
fixed	smoking_statusYes	0.979995	0.0568	0.727352	0.87476	1.097891	CHARLS	executive_only
fixed	bmi	1.002538	0.001985	0.200418	0.998656	1.006435	CHARLS	executive_only
fixed	depression_score	1.066447	0.004231	3.89E-59	1.058186	1.074771	CHARLS	executive_only
fixed	hypertensionYes	1.046586	0.053396	0.372137	0.946994	1.156651	CHARLS	executive_only
fixed	diabetesYes	1.083384	0.09362	0.354023	0.914591	1.28333	CHARLS	executive_only
fixed	heart_diseaseYes	1.700438	0.111916	7.25E-16	1.494644	1.934566	CHARLS	executive_only
fixed	strokeYes	1.399317	0.195245	0.016041	1.064508	1.839431	CHARLS	executive_only
fixed	cancerYes	1.022741	0.225408	0.918736	0.663995	1.575312	CHARLS	executive_only
fixed	psychiatric_disorderYes	1.490977	0.309951	0.05468	0.992017	2.240901	CHARLS	executive_only
fixed	executive_score	1.173356	0.05882	0.00657	1.045589	1.316736	CHARLS	executive_only
fixed	(Intercept)	0.273092	0.054164	5.98E-11	0.185134	0.402839	CHARLS	total_cognition_only
fixed	age	1.001818	0.003041	0.549559	0.995875	1.007796	CHARLS	total_cognition_only
fixed	genderYes	0.709743	0.041494	4.51E-09	0.632902	0.795914	CHARLS	total_cognition_only
fixed	ruralYes	1.071218	0.050378	0.143501	0.976894	1.17465	CHARLS	total_cognition_only
fixed	marital_statusNever married/Other	0.880193	0.066791	0.092619	0.758555	1.021337	CHARLS	total_cognition_only
fixed	marital_statusSeparated/Divorced/Widowed	1.172202	0.221681	0.400828	0.809147	1.698157	CHARLS	total_cognition_only
fixed	educationSecondary	0.731472	0.058455	9.12E-05	0.625424	0.855501	CHARLS	total_cognition_only
fixed	educationTertiary	0.670346	0.131376	0.04127	0.45654	0.984281	CHARLS	total_cognition_only
fixed	drinking_statusYes	1.068342	0.056399	0.210476	0.963329	1.184804	CHARLS	total_cognition_only
fixed	smoking_statusYes	0.979917	0.056801	0.726341	0.874679	1.097816	CHARLS	total_cognition_only
fixed	bmi	1.002488	0.001984	0.209283	0.998607	1.006385	CHARLS	total_cognition_only
fixed	depression_score	1.066348	0.004272	7.38E-58	1.058007	1.074754	CHARLS	total_cognition_only
fixed	hypertensionYes	1.047143	0.053429	0.366609	0.947491	1.157276	CHARLS	total_cognition_only
fixed	diabetesYes	1.081293	0.093422	0.365668	0.912854	1.280812	CHARLS	total_cognition_only
fixed	heart_diseaseYes	1.700133	0.111948	7.64E-16	1.494288	1.934334	CHARLS	total_cognition_only

fixed	strokeYes	1.397046	0.194865	0.016524	1.062875	1.836281	CHARLS	total_cognition_only
fixed	cancerYes	1.022684	0.225381	0.91893	0.663976	1.575183	CHARLS	total_cognition_only
fixed	psychiatric_disorderYes	1.486455	0.308981	0.056523	0.989048	2.234017	CHARLS	total_cognition_only
fixed	cognition_total_score	0.96397	0.02702	0.190491	0.91244	1.01841	CHARLS	total_cognition_only
fixed	(Intercept)	0.26315	0.052417	2.05E-11	0.178095	0.388825	CHARLS	multi_domain
fixed	age	1.00229	0.003053	0.452775	0.996323	1.008292	CHARLS	multi_domain
fixed	genderYes	0.72184	0.04265	3.46E-08	0.642906	0.810465	CHARLS	multi_domain
fixed	ruralYes	1.068136	0.050443	0.162792	0.973706	1.171723	CHARLS	multi_domain
fixed	marital_statusNever married/Other	0.876941	0.066618	0.08388	0.755627	1.017731	CHARLS	multi_domain
fixed	marital_statusSeparated/Divorced/Widowed	1.167908	0.221133	0.412352	0.805826	1.692685	CHARLS	multi_domain
fixed	educationSecondary	0.725299	0.058068	6.03E-05	0.619968	0.848525	CHARLS	multi_domain
fixed	educationTertiary	0.65867	0.129244	0.033347	0.448379	0.967588	CHARLS	multi_domain
fixed	drinking_statusYes	1.066665	0.056348	0.22183	0.96175	1.183026	CHARLS	multi_domain
fixed	smoking_statusYes	0.978695	0.056743	0.71031	0.873567	1.096474	CHARLS	multi_domain
fixed	bmi	1.002556	0.001985	0.197282	0.998673	1.006454	CHARLS	multi_domain
fixed	depression_score	1.066591	0.004294	1.01E-57	1.058209	1.07504	CHARLS	multi_domain
fixed	hypertensionYes	1.048371	0.053515	0.354755	0.94856	1.158685	CHARLS	multi_domain
fixed	diabetesYes	1.083004	0.093606	0.356239	0.914237	1.282924	CHARLS	multi_domain
fixed	heart_diseaseYes	1.700998	0.112105	7.62E-16	1.494874	1.935543	CHARLS	multi_domain
fixed	strokeYes	1.397676	0.195089	0.016454	1.063151	1.83746	CHARLS	multi_domain
fixed	cancerYes	1.020167	0.224808	0.927805	0.662365	1.57125	CHARLS	multi_domain
fixed	psychiatric_disorderYes	1.487646	0.309217	0.056016	0.989856	2.23577	CHARLS	multi_domain
fixed	memory_score	1.029643	0.025651	0.240975	0.980575	1.081166	CHARLS	multi_domain
fixed	orientation_score	0.969823	0.024939	0.233436	0.922154	1.019957	CHARLS	multi_domain
fixed	executive_score	1.008318	0.003492	0.017673	1.001441	1.015243	CHARLS	multi_domain
fixed	(Intercept)	0.001961	3.61E-04	#####	0.001367	0.002813	HRS	memory_only
fixed	age	1.070868	0.002046	#####	1.066865	1.074887	HRS	memory_only
fixed	genderYes	0.582974	0.021295	2.20E-49	0.542695	0.626241	HRS	memory_only
fixed	ruralYes	1.299764	0.051363	3.25E-11	1.202895	1.404434	HRS	memory_only
fixed	marital_statusNever married/Other	0.85376	0.037845	3.61E-04	0.782715	0.931253	HRS	memory_only
fixed	marital_statusSeparated/Divorced/Widowed	0.926189	0.042743	0.096616	0.846091	1.01387	HRS	memory_only
fixed	educationSecondary	1.008267	0.048178	0.863193	0.918128	1.107257	HRS	memory_only
fixed	educationTertiary	0.826053	0.048693	0.001188	0.735923	0.927222	HRS	memory_only
fixed	drinking_statusYes	0.951323	0.034925	0.174067	0.885276	1.022299	HRS	memory_only
fixed	smoking_statusYes	1.202293	0.058793	1.65E-04	1.092411	1.323228	HRS	memory_only
fixed	bmi	1.053844	0.003282	1.21E-63	1.047431	1.060295	HRS	memory_only
fixed	depression_score	1.114347	0.010699	1.70E-29	1.093574	1.135514	HRS	memory_only

fixed	hypertensionYes	1.332066	0.048672	4.25E-15	1.240006	1.430959	HRS	memory_only
fixed	diabetesYes	1.0591	0.046578	0.191688	0.971632	1.154441	HRS	memory_only
fixed	heart_diseaseYes	1.431083	0.065071	3.20E-15	1.309064	1.564475	HRS	memory_only
fixed	strokeYes	1.114193	0.078745	0.126024	0.970068	1.279731	HRS	memory_only
fixed	cancerYes	1.354499	0.072383	1.36E-08	1.219808	1.504063	HRS	memory_only
fixed	psychiatric_disorderYes	2.155888	0.112223	2.74E-49	1.946783	2.387453	HRS	memory_only
fixed	memory_score	1.043249	0.023187	0.056785	0.998778	1.089699	HRS	memory_only
fixed	(Intercept)	0.001997	3.67E-04	#####	0.001394	0.002862	HRS	orientation_only
fixed	age	1.07038	0.002016	#####	1.066437	1.074338	HRS	orientation_only
fixed	genderYes	0.578444	0.020881	6.08E-52	0.538932	0.620852	HRS	orientation_only
fixed	ruralYes	1.300074	0.05137	3.11E-11	1.20319	1.404759	HRS	orientation_only
fixed	marital_statusNever married/Other	0.85051	0.037651	2.55E-04	0.779826	0.927601	HRS	orientation_only
fixed	marital_statusSeparated/Divorced/Widowed	0.923808	0.042605	0.085723	0.843967	1.011203	HRS	orientation_only
fixed	educationSecondary	1.020903	0.048006	0.65997	0.931019	1.119465	HRS	orientation_only
fixed	educationTertiary	0.845332	0.048131	0.003167	0.756069	0.945133	HRS	orientation_only
fixed	drinking_statusYes	0.955296	0.034982	0.211695	0.889135	1.02638	HRS	orientation_only
fixed	smoking_statusYes	1.201373	0.05873	1.75E-04	1.091606	1.322177	HRS	orientation_only
fixed	bmi	1.053865	0.003282	1.08E-63	1.047453	1.060317	HRS	orientation_only
fixed	depression_score	1.11285	0.010631	4.42E-29	1.092208	1.133883	HRS	orientation_only
fixed	hypertensionYes	1.329868	0.048576	5.97E-15	1.237988	1.428566	HRS	orientation_only
fixed	diabetesYes	1.057527	0.046493	0.203289	0.970217	1.152694	HRS	orientation_only
fixed	heart_diseaseYes	1.430124	0.065035	3.63E-15	1.308174	1.563443	HRS	orientation_only
fixed	strokeYes	1.107691	0.078118	0.146984	0.964693	1.271887	HRS	orientation_only
fixed	cancerYes	1.356941	0.0725	1.11E-08	1.222031	1.506744	HRS	orientation_only
fixed	psychiatric_disorderYes	2.161317	0.112548	1.45E-49	1.951611	2.393557	HRS	orientation_only
fixed	orientation_score	1.027992	0.020459	0.165391	0.988665	1.068883	HRS	orientation_only
fixed	(Intercept)	0.00206	3.79E-04	#####	0.001437	0.002953	HRS	executive_only
fixed	age	1.07015	0.002007	#####	1.066223	1.074091	HRS	executive_only
fixed	genderYes	0.57291	0.020676	9.52E-54	0.533787	0.614901	HRS	executive_only
fixed	ruralYes	1.298911	0.051337	3.66E-11	1.202091	1.40353	HRS	executive_only
fixed	marital_statusNever married/Other	0.853204	0.037825	3.42E-04	0.782197	0.930656	HRS	executive_only
fixed	marital_statusSeparated/Divorced/Widowed	0.92589	0.042729	0.095214	0.84582	1.013541	HRS	executive_only
fixed	educationSecondary	1.006335	0.048923	0.896641	0.914875	1.106939	HRS	executive_only
fixed	educationTertiary	0.827771	0.049492	0.00157	0.736236	0.930687	HRS	executive_only
fixed	drinking_statusYes	0.952159	0.034964	0.18186	0.886039	1.023212	HRS	executive_only
fixed	smoking_statusYes	1.202077	0.058773	1.67E-04	1.092231	1.322971	HRS	executive_only
fixed	bmi	1.053899	0.003282	8.95E-64	1.047486	1.06035	HRS	executive_only

fixed	depression_score	1.114022	0.010706	2.72E-29	1.093235	1.135204	HRS	executive_only
fixed	hypertensionYes	1.334142	0.048816	3.30E-15	1.241815	1.433334	HRS	executive_only
fixed	diabetesYes	1.059077	0.046588	0.191955	0.971592	1.154439	HRS	executive_only
fixed	heart_diseaseYes	1.428984	0.064992	4.21E-15	1.307115	1.562216	HRS	executive_only
fixed	strokeYes	1.108835	0.078237	0.143141	0.965624	1.273286	HRS	executive_only
fixed	cancerYes	1.3545	0.072404	1.38E-08	1.219771	1.504111	HRS	executive_only
fixed	psychiatric_disorderYes	2.153909	0.112102	3.44E-49	1.945028	2.385222	HRS	executive_only
fixed	executive_score	1.132328	0.053773	0.020827	1.019059	1.258187	HRS	executive_only
fixed	(Intercept)	0.002005	3.68E-04	#####	0.001399	0.002872	HRS	total_cognition_only
fixed	age	1.070775	0.002027	#####	1.066808	1.074756	HRS	total_cognition_only
fixed	genderYes	0.579828	0.020912	1.35E-51	0.540257	0.622297	HRS	total_cognition_only
fixed	ruralYes	1.29823	0.051312	4.01E-11	1.201457	1.402798	HRS	total_cognition_only
fixed	marital_statusNever married/Other	0.854877	0.037905	4.06E-04	0.783721	0.932494	HRS	total_cognition_only
fixed	marital_statusSeparated/Divorced/Widowed	0.927445	0.042812	0.102736	0.847219	1.015267	HRS	total_cognition_only
fixed	educationSecondary	0.995645	0.048382	0.928438	0.905195	1.095134	HRS	total_cognition_only
fixed	educationTertiary	0.812299	0.048872	5.50E-04	0.721944	0.913962	HRS	total_cognition_only
fixed	drinking_statusYes	0.9495	0.034884	0.158405	0.883531	1.020394	HRS	total_cognition_only
fixed	smoking_statusYes	1.203426	0.058855	1.53E-04	1.093428	1.324489	HRS	total_cognition_only
fixed	bmi	1.053711	0.003282	2.65E-63	1.047297	1.060164	HRS	total_cognition_only
fixed	depression_score	1.115645	0.010754	7.17E-30	1.094765	1.136922	HRS	total_cognition_only
fixed	hypertensionYes	1.334502	0.048792	2.97E-15	1.242217	1.433643	HRS	total_cognition_only
fixed	diabetesYes	1.060904	0.046677	0.179028	0.973253	1.15645	HRS	total_cognition_only
fixed	heart_diseaseYes	1.428904	0.064981	4.22E-15	1.307054	1.562114	HRS	total_cognition_only
fixed	strokeYes	1.117026	0.078952	0.1174	0.972524	1.283	HRS	total_cognition_only
fixed	cancerYes	1.351836	0.072272	1.71E-08	1.217354	1.501173	HRS	total_cognition_only
fixed	psychiatric_disorderYes	2.157913	0.112315	2.04E-49	1.948636	2.389666	HRS	total_cognition_only
fixed	cognition_total_score	1.055916	0.024359	0.018348	1.009237	1.104755	HRS	total_cognition_only
fixed	(Intercept)	0.001982	3.67E-04	#####	0.001379	0.002849	HRS	multi_domain
fixed	age	1.070917	0.002053	#####	1.066901	1.074948	HRS	multi_domain
fixed	genderYes	0.581704	0.021524	1.51E-48	0.54101	0.625458	HRS	multi_domain
fixed	ruralYes	1.298384	0.051322	3.95E-11	1.201592	1.402972	HRS	multi_domain
fixed	marital_statusNever married/Other	0.855197	0.037947	4.23E-04	0.783964	0.932903	HRS	multi_domain
fixed	marital_statusSeparated/Divorced/Widowed	0.927646	0.042835	0.103846	0.847377	1.015518	HRS	multi_domain
fixed	educationSecondary	0.995335	0.048813	0.924033	0.904117	1.095755	HRS	multi_domain
fixed	educationTertiary	0.810988	0.049481	5.95E-04	0.719582	0.914006	HRS	multi_domain
fixed	drinking_statusYes	0.949115	0.034909	0.155634	0.883101	1.020062	HRS	multi_domain
fixed	smoking_statusYes	1.20349	0.058862	1.52E-04	1.09348	1.324567	HRS	multi_domain

fixed	bmi	1.053708	0.003283	2.72E-63	1.047294	1.060162	HRS	multi_domain
fixed	depression_score	1.115765	0.01077	7.53E-30	1.094855	1.137074	HRS	multi_domain
fixed	hypertensionYes	1.334324	0.048833	3.25E-15	1.241966	1.43355	HRS	multi_domain
fixed	diabetesYes	1.060965	0.046685	0.178651	0.9733	1.156527	HRS	multi_domain
fixed	heart_diseaseYes	1.429364	0.065009	4.02E-15	1.307463	1.562631	HRS	multi_domain
fixed	strokeYes	1.118187	0.079073	0.114174	0.973468	1.284421	HRS	multi_domain
fixed	cancerYes	1.351736	0.072272	1.73E-08	1.217255	1.501075	HRS	multi_domain
fixed	psychiatric_disorderYes	2.157581	0.112378	2.50E-49	1.948194	2.389472	HRS	multi_domain
fixed	memory_score	1.034567	0.023807	0.139726	0.988944	1.082295	HRS	multi_domain
fixed	orientation_score	1.02035	0.02068	0.320221	0.980613	1.061698	HRS	multi_domain
fixed	executive_score	1.04953	0.017684	0.006262	1.013776	1.086545	HRS	multi_domain
fixed	(Intercept)	0.005742	0.006847	1.51E-05	5.55E-04	0.059443	ELSA	memory_only
fixed	age	1.054843	0.016401	5.95E-04	1.023183	1.087483	ELSA	memory_only
fixed	genderYes	0.561999	0.1304	0.013008	0.356642	0.885601	ELSA	memory_only
fixed	marital_statusNever married/Other	0.685716	0.232883	0.266602	0.352419	1.334226	ELSA	memory_only
fixed	marital_statusSeparated/Divorced/Widowed	0.767857	0.22573	0.368891	0.431567	1.366193	ELSA	memory_only
fixed	educationSecondary	0.478783	0.136662	0.009872	0.273638	0.837725	ELSA	memory_only
fixed	educationTertiary	0.285758	0.110465	0.001194	0.133953	0.6096	ELSA	memory_only
fixed	drinking_statusYes	0.481447	0.153892	0.022208	0.257315	0.900805	ELSA	memory_only
fixed	smoking_statusYes	0.972288	0.2815	0.922672	0.551254	1.714895	ELSA	memory_only
fixed	bmi	1.066804	0.020873	9.50E-04	1.026668	1.10851	ELSA	memory_only
fixed	depression_score	1.148733	0.062191	0.010432	1.033085	1.277327	ELSA	memory_only
fixed	hypertensionYes	1.374895	0.34266	0.201439	0.843583	2.240841	ELSA	memory_only
fixed	diabetesYes	0.83614	0.379713	0.693526	0.343341	2.036255	ELSA	memory_only
fixed	heart_diseaseYes	1.639681	0.480974	0.091835	0.922727	2.913706	ELSA	memory_only
fixed	strokeYes	1.146096	0.670861	0.815794	0.363893	3.60967	ELSA	memory_only
fixed	cancerYes	1.754532	0.726502	0.174546	0.779297	3.950205	ELSA	memory_only
fixed	psychiatric_disorderYes	2.052644	0.676224	0.029045	1.076202	3.915017	ELSA	memory_only
fixed	memory_score	1.091118	0.154827	0.538852	0.826207	1.44097	ELSA	memory_only
fixed	(Intercept)	0.006712	0.007904	2.14E-05	6.68E-04	0.067487	ELSA	orientation_only
fixed	age	1.051802	0.015822	7.87E-04	1.021243	1.083275	ELSA	orientation_only
fixed	genderYes	0.557256	0.128231	0.011051	0.354963	0.874835	ELSA	orientation_only
fixed	marital_statusNever married/Other	0.671345	0.229184	0.243115	0.343845	1.310779	ELSA	orientation_only
fixed	marital_statusSeparated/Divorced/Widowed	0.763669	0.224154	0.358321	0.429594	1.357538	ELSA	orientation_only
fixed	educationSecondary	0.480237	0.13524	0.009199	0.276533	0.833996	ELSA	orientation_only
fixed	educationTertiary	0.29403	0.109536	0.001017	0.141674	0.610228	ELSA	orientation_only
fixed	drinking_statusYes	0.476752	0.152639	0.020685	0.254547	0.892928	ELSA	orientation_only

fixed	smoking_statusYes	0.97368	0.282371	0.92672	0.551525	1.718969	ELSA	orientation_only
fixed	bmi	1.066831	0.020815	9.14E-04	1.026804	1.108419	ELSA	orientation_only
fixed	depression_score	1.149747	0.061903	0.009548	1.034602	1.277708	ELSA	orientation_only
fixed	hypertensionYes	1.381364	0.344536	0.195216	0.847234	2.252228	ELSA	orientation_only
fixed	diabetesYes	0.856778	0.390341	0.734393	0.350806	2.092516	ELSA	orientation_only
fixed	heart_diseaseYes	1.694378	0.496189	0.071755	0.954423	3.008013	ELSA	orientation_only
fixed	strokeYes	1.25337	0.736236	0.700635	0.39635	3.963505	ELSA	orientation_only
fixed	cancerYes	1.755506	0.72793	0.174728	0.778838	3.956923	ELSA	orientation_only
fixed	psychiatric_disorderYes	2.089762	0.688046	0.025182	1.096079	3.984296	ELSA	orientation_only
fixed	orientation_score	1.171274	0.199851	0.35417	0.83834	1.636427	ELSA	orientation_only
fixed	(Intercept)	#####	#####	0.259454	3.61E-83	#####	ELSA	executive_only
fixed	age	1.051586	0.015839	8.40E-04	1.020995	1.083093	ELSA	executive_only
fixed	genderYes	0.545451	0.126131	0.008761	0.346675	0.858201	ELSA	executive_only
fixed	marital_statusNever married/Other	0.685759	0.234551	0.270066	0.350779	1.340629	ELSA	executive_only
fixed	marital_statusSeparated/Divorced/Widowed	0.790484	0.232694	0.42447	0.443941	1.40754	ELSA	executive_only
fixed	educationSecondary	0.499365	0.139831	0.013142	0.288448	0.864509	ELSA	executive_only
fixed	educationTertiary	0.306149	0.113648	0.001429	0.147895	0.633743	ELSA	executive_only
fixed	drinking_statusYes	0.482925	0.15445	0.02285	0.258015	0.903885	ELSA	executive_only
fixed	smoking_statusYes	1.004856	0.291813	0.98669	0.568739	1.775396	ELSA	executive_only
fixed	bmi	1.067383	0.020937	8.86E-04	1.027127	1.109218	ELSA	executive_only
fixed	depression_score	1.142876	0.061562	0.013164	1.028369	1.270135	ELSA	executive_only
fixed	hypertensionYes	1.377911	0.345699	0.201338	0.842688	2.253076	ELSA	executive_only
fixed	diabetesYes	0.850249	0.389347	0.723139	0.346547	2.086073	ELSA	executive_only
fixed	heart_diseaseYes	1.708998	0.50473	0.069591	0.957966	3.048828	ELSA	executive_only
fixed	strokeYes	1.125002	0.662095	0.841375	0.354975	3.565409	ELSA	executive_only
fixed	cancerYes	1.727403	0.723225	0.191693	0.760352	3.924393	ELSA	executive_only
fixed	psychiatric_disorderYes	2.146801	0.712385	0.021319	1.120296	4.11387	ELSA	executive_only
fixed	executive_score	1.070278	0.018662	0.000273	1.031838	1.110151	ELSA	executive_only
fixed	(Intercept)	0.004608	0.005654	1.16E-05	4.16E-04	0.051052	ELSA	total_cognition_only
fixed	age	1.055102	0.016138	4.54E-04	1.023941	1.087212	ELSA	total_cognition_only
fixed	genderYes	0.569282	0.131949	0.015072	0.361439	0.896643	ELSA	total_cognition_only
fixed	marital_statusNever married/Other	0.678395	0.230698	0.253856	0.348353	1.321133	ELSA	total_cognition_only
fixed	marital_statusSeparated/Divorced/Widowed	0.75468	0.222838	0.340479	0.423082	1.346173	ELSA	total_cognition_only
fixed	educationSecondary	0.464701	0.13329	0.007544	0.264865	0.81531	ELSA	total_cognition_only
fixed	educationTertiary	0.273944	0.105792	8.00E-04	0.128512	0.583956	ELSA	total_cognition_only
fixed	drinking_statusYes	0.471997	0.15134	0.019205	0.251775	0.884845	ELSA	total_cognition_only
fixed	smoking_statusYes	0.964182	0.279767	0.899964	0.545978	1.702721	ELSA	total_cognition_only

fixed	bmi	1.066529	0.020861	9.91E-04	1.026417	1.108209	ELSA	total_cognition_only
fixed	depression_score	1.154753	0.062832	0.008184	1.037943	1.284709	ELSA	total_cognition_only
fixed	hypertensionYes	1.379725	0.343902	0.196568	0.8465	2.248837	ELSA	total_cognition_only
fixed	diabetesYes	0.856454	0.388944	0.732946	0.351678	2.085754	ELSA	total_cognition_only
fixed	heart_diseaseYes	1.655977	0.484413	0.084659	0.933378	2.937996	ELSA	total_cognition_only
fixed	strokeYes	1.207074	0.704041	0.746948	0.384822	3.786237	ELSA	total_cognition_only
fixed	cancerYes	1.769718	0.733568	0.168484	0.785365	3.98783	ELSA	total_cognition_only
fixed	psychiatric_disorderYes	2.064829	0.679193	0.027508	1.083664	3.934352	ELSA	total_cognition_only
fixed	cognition_total_score	1.278493	0.307664	0.30729	0.797737	2.048975	ELSA	total_cognition_only
fixed	(Intercept)	#####	#####	0.242029	9.52E-79	Inf	ELSA	multi_domain
fixed	age	1.053307	0.016498	9.14E-04	1.021463	1.086144	ELSA	multi_domain
fixed	genderYes	0.563136	0.131305	0.013788	0.356567	0.889379	ELSA	multi_domain
fixed	marital_statusNever married/Other	0.678098	0.232217	0.256646	0.346574	1.32675	ELSA	multi_domain
fixed	marital_statusSeparated/Divorced/Widowed	0.765165	0.227334	0.367637	0.427424	1.369781	ELSA	multi_domain
fixed	educationSecondary	0.46838	0.134881	0.008443	0.266364	0.823611	ELSA	multi_domain
fixed	educationTertiary	0.27823	0.108226	0.001006	0.129809	0.596355	ELSA	multi_domain
fixed	drinking_statusYes	0.466614	0.149954	0.017697	0.248547	0.876004	ELSA	multi_domain
fixed	smoking_statusYes	0.989919	0.288594	0.972275	0.559044	1.752884	ELSA	multi_domain
fixed	bmi	1.066534	0.020915	0.001021	1.02632	1.108325	ELSA	multi_domain
fixed	depression_score	1.155122	0.063158	0.008353	1.037737	1.285785	ELSA	multi_domain
fixed	hypertensionYes	1.384983	0.347173	0.193852	0.847371	2.26368	ELSA	multi_domain
fixed	diabetesYes	0.883266	0.403927	0.786058	0.360436	2.164487	ELSA	multi_domain
fixed	heart_diseaseYes	1.721881	0.511079	0.067126	0.962396	3.080719	ELSA	multi_domain
fixed	strokeYes	1.205426	0.711831	0.75171	0.378867	3.835256	ELSA	multi_domain
fixed	cancerYes	1.752224	0.734476	0.180866	0.770537	3.984613	ELSA	multi_domain
fixed	psychiatric_disorderYes	2.158313	0.715166	0.020245	1.127367	4.132032	ELSA	multi_domain
fixed	memory_score	1.08467	0.155864	0.571662	0.818431	1.437517	ELSA	multi_domain
fixed	orientation_score	1.165384	0.199444	0.371163	0.833286	1.629837	ELSA	multi_domain
fixed	executive_score	1.029989	0.013045	0.023511	1.003987	1.056664	ELSA	multi_domain

BMI: body mass index; CHARLS: China Health and Retirement Longitudinal Study; Conf: 95% confidence interval; ELSA: English Longitudinal Study of Ageing; GLMM: Generalised Linear Mixed Models; HRS: Health and Retirement Study; OR: odds ratio