

SUPPLEMENTARY MATERIAL

The Association between Constipation and Positron Emission Tomography and Blood-based Biomarkers in Older Cognitively Unimpaired Adults with Higher Amyloid- β Burden

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Table S1. Spearman's correlation and multiple linear regression analyzes of the association between constipation and plasma biomarkers in participants with A β -PET (-).

Groups	Biomarkers	Spearman's correlation	Multiple linear regression			
		Correlation coefficient (<i>P</i> value)	β	95% CI	SE	<i>P</i> value
Total	A β 42	0.009 (0.883)	/	/	/	/
	A β 40	0.067 (0.262)	/	/	/	/
	A β 42/40	-0.061 (0.314)	/	/	/	/
	t-Tau	0.152 (0.012)	0.312	0.079 to 0.546	0.118	0.009
	p-Tau-181	-0.053 (0.380)	/	/	/	/
	NfL	0.008 (0.894)	/	/	/	/
Male	A β 42	0.080 (0.442)	/	/	/	/
	A β 40	0.011 (0.917)	/	/	/	/
	A β 42/40	0.027 (0.796)	/	/	/	/
	t-Tau	0.066 (0.530)	/	/	/	/
	p-Tau-181	-0.067 (0.525)	/	/	/	/
	NfL	0.058 (0.577)	/	/	/	/
Female	A β 42	-0.024 (0.751)	/	/	/	/
	A β 40	0.083 (0.265)	/	/	/	/
	A β 42/40	-0.101 (0.174)	/	/	/	/
	t-Tau	0.193 (0.009)	0.420	0.130 to 0.709	0.147	0.005
	p-Tau-181	-0.013 (0.866)	/	/	/	/
	NfL	0.005 (0.950)	/	/	/	/
Age $\geq$ 65 years	A β 42	0.074 (0.394)	/	/	/	/
	A β 40	0.158 (0.067)	/	/	/	/
	A β 42/40	-0.087 (0.317)	/	/	/	/

	t-Tau	0.192 (0.027)	0.346	0.038 to 0.653	0.346	0.028
	p-Tau-181	0.004 (0.965)	/	/	/	/
	NfL	0.047 (0.585)	/	/	/	/
Age<65 years	A β 42	-0.067 (0.426)	/	/	/	/
	A β 40	-0.026 (0.761)	/	/	/	/
	A β 42/40	-0.019 (0.819)	/	/	/	/
	t-Tau	0.118 (0.160)	/	/	/	/
	p-Tau-181	-0.112 (0.182)	/	/	/	/
	NfL	-0.078 (0.354)	/	/	/	/
APOE ϵ 4 (+)	A β 42	-0.047 (0.759)	/	/	/	/
	A β 40	0.124 (0.412)	/	/	/	/
	A β 42/40	-0.108 (0.476)	/	/	/	/
	t-Tau	-0.077 (0.613)	/	/	/	/
	p-Tau-181	0.018 (0.904)	/	/	/	/
	NfL	-0.023 (0.879)	/	/	/	/
APOE ϵ 4 (-)	A β 42	0.021 (0.756)	/	/	/	/
	A β 40	0.054 (0.414)	/	/	/	/
	A β 42/40	-0.051 (0.442)	/	/	/	/
	t-Tau	0.189 (0.004)	0.357	0.037 to 0.677	0.162	0.029
	p-Tau-181	-0.068 (0.303)	/	/	/	/
	NfL	0.017 (0.796)	/	/	/	/

A β indicates amyloid- β ; APOE, apolipoprotein E; CI, confidence intervals; NfL, neurofilament light chain; PET, positron emission tomography; SE, standardized estimate

Table S2. Spearman's correlation and multiple linear regression analyzes of the association between constipation and plasma biomarkers in total participants.

Groups	Biomarkers	Spearman's correlation	Multiple linear regression			
		Correlation coefficient (<i>P</i> value)	β	95% CI	SE	<i>P</i> value
Total	A β 42	0.037 (0.462)	/	/	/	/
	A β 40	0.109 (0.028)	/	/	/	/
	A β 42/40	-0.070 (0.160)	/	/	/	/
	t-Tau	0.178 (<0.001)	0.373	0.173 to 0.574	0.102	<0.001
	p-Tau-181	0.082 (0.100)	/	/	/	/
	NfL	0.082 (0.099)	/	/	/	/
Male	A β 42	0.044 (0.587)	/	/	/	/
	A β 40	0.107 (0.185)	/	/	/	/
	A β 42/40	-0.036 (0.661)	/	/	/	/
	t-Tau	0.125 (0.127)	/	/	/	/
	p-Tau-181	0.108 (0.188)	/	/	/	/
	NfL	0.132 (0.102)	/	/	/	/
Female	A β 42	0.025 (0.689)	/	/	/	/
	A β 40	0.103 (0.104)	/	/	/	/
	A β 42/40	-0.097 (0.127)	/	/	/	/
	t-Tau	0.209 (0.001)	0.438	0.182 to 0.693	0.130	0.001
	p-Tau-181	0.097 (0.129)	/	/	/	/
	NfL	0.075 (0.239)	/	/	/	/
Age $\geq$ 65 years	A β 42	0.032 (0.645)	/	/	/	/
	A β 40	0.121 (0.086)	/	/	/	/
	A β 42/40	-0.073 (0.299)	/	/	/	/
	t-Tau	0.214 (0.002)	0.418	0.161 to 0.675	0.130	0.002

	p-Tau-181	0.126 (0.076)	/	/	/	/
	NfL	0.149 (0.033)	2.062	0.235 to 3.889	0.926	0.027
Age<65 years	A β 42	-0.039 (0.584)	/	/	/	/
	A β 40	0.087 (0.219)	/	/	/	/
	A β 42/40	-0.054 (0.449)	/	/	/	/
	t-Tau	0.146 (0.039)	/	/	/	/
	p-Tau-181	0.041 (0.563)	/	/	/	/
	NfL	0.023 (0.749)	/	/	/	/
APOE ϵ 4 (+)	A β 42	-0.037 (0.743)	/	/	/	/
	A β 40	0.141 (0.215)	/	/	/	/
	A β 42/40	-0.145 (0.202)	/	/	/	/
	t-Tau	0.053 (0.646)	/	/	/	/
	p-Tau-181	0.145 (0.206)	/	/	/	/
	NfL	0.074 (0.520)	/	/	/	/
APOE ϵ 4 (-)	A β 42	-0.054 (0.334)	/	/	/	/
	A β 40	0.030 (0.594)	/	/	/	/
	A β 42/40	-0.115 (0.039)	-0.004	-0.006 to 0.001	0.001	0.009
	t-Tau	0.141 (0.012)	/	/	/	/
	p-Tau-181	0.037 (0.505)	/	/	/	/
	NfL	0.083 (0.136)	/	/	/	/

A β indicates amyloid- β ; APOE, apolipoprotein E; CI, confidence intervals; NfL, neurofilament light chain; PET, positron emission tomography; SE, standardized estimate