

Supplemental Table 6. The negative results of MR study between intake of artificial sweetener added to tea and cancers.

	Type of cancer	GWAS ID	Inverse variance weighted						Heterogeneity		Pleio	
			Odds ratio	CI lower	CI upper	p-value	β	SE	Q-value	p-value	MR Egger-intercept	p-value
Lung cancer	Squamous cell lung cancer	finn-b-C3_NSCLC_SQUAM_EXALLC	0.216	0.021	2.224	0.198	-1.534	1.190	14.409	0.346	-0.062	0.436
	Squamous cell lung cancer	finn-b-C3_NSCLC_SQUAM	0.229	0.022	2.362	0.215	-1.476	1.191	14.400	0.346	-0.064	0.420
	Small cell lung cancer	finn-b-C3_SCLC_EXALLC	0.974	0.040	23.769	0.987	-0.027	1.630	7.506	0.874	0.079	0.459
	Small cell lung cancer	finn-b-C3_SCLC	0.984	0.040	23.962	0.992	-0.016	1.629	7.267	0.888	0.078	0.463
	Non-small cell lung cancer	finn-b-C3_LUNG_NONSMALL	0.529	0.163	1.718	0.289	-0.637	0.601	16.582	0.219	-0.020	0.621
	Non-small cell lung cancer	finn-b-C3_LUNG_NONSMALL_EXALLC	0.532	0.162	1.746	0.298	-0.631	0.606	16.804	0.208	-0.016	0.700
	Lung cancer and mesothelioma	ukb-d-LUNG_CANCER_MESOT	0.993	0.988	0.999	0.032	-0.007	0.003	16.819	0.208	0.000	0.666
	Lung cancer	ieu-b-4954	0.993	0.985	1.001	0.067	-0.007	0.004	15.492	0.078	0.000	0.511

Lung cancer	lung adenocarcinoma	finn-b-C3_NSCLC_ADENO_EXALLC	0.647	0.107	3.926	0.636	-0.435	0.920	10.423	0.659	-0.002	0.974
	lung adenocarcinoma	finn-b-C3_NSCLC_ADENO	0.635	0.105	3.842	0.621	-0.455	0.919	10.253	0.673	-0.004	0.941
	Lung cancer	ieu-a-987	1.058	0.781	1.432	0.716	0.056	0.155	31.766	0.284	0.012	0.219
	Lung adenocarcinoma	ieu-a-984	1.058	0.699	1.601	0.791	0.056	0.211	26.339	0.445	0.023	0.085
	Squamous cell lung cancer	ieu-a-989	1.271	0.800	2.018	0.310	0.239	0.236	11.890	0.981	0.007	0.628
Colorectal cancer	Colorectal cancer	ieu-b-4965	1.006	0.997	1.014	0.198	0.006	0.004	10.207	0.677	0.000	0.196
	Colorectal cancer	finn-b-C3_COLORECTAL_EXALLC	1.175	0.476	2.901	0.726	0.162	0.461	17.353	0.184	-0.011	0.730
	Colon adenocarcinoma	finn-b-C3_COLON_ADENO_EXALLC	1.281	0.401	4.091	0.676	0.247	0.593	12.613	0.478	-0.003	0.939
	Malignant neoplasm of colon	finn-b-C3_COLON_EXALLC	1.155	0.415	3.216	0.783	0.144	0.522	8.569	0.805	-0.006	0.858

Malignant neoplasm of stomach (all cancers excluded)	Malignant neoplasm of stomach (all cancers excluded)	finn-b-C3_STOMACH_EXAL LC	1.281	0.232	7.076	0.776	0.248	0.872	4.401	0.986	0.039	0.488
Breast cancer	Breast cancer	ieu-b-4810	0.998	0.980	1.016	0.795	-0.002	0.009	32.744	0.245	-0.001	0.326
	Breast cancer	ebi-a-GCST004988	0.935	0.754	1.158	0.536	-0.068	0.109	9.543	0.731	0.014	0.070
	Breast cancer	ebi-a-GCST007236	0.009	0.000	6157	0.494	-4.679	6.839	12900	0.000	-0.695	0.107
	Breast cancer	ieu-a-1126	0.911	0.710	1.170	0.466	-0.093	0.127	9.198	0.686	0.014	0.067
	Breast cancer	ieu-a-1131	0.559	0.241	1.295	0.175	-0.582	0.429	16.405	0.173	0.018	0.510
	Breast cancer	ieu-a-1168	1.054	0.708	1.570	0.795	0.053	0.203	2.958	0.998	0.013	0.342
	Breast cancer	ieu-a-1130	1.076	0.701	1.652	0.737	0.073	0.219	5.022	0.957	0.019	0.157
	Breast cancer	ieu-a-1129	0.909	0.653	1.267	0.574	-0.095	0.169	9.427	0.666	0.013	0.213

Breast cancer	Breast cancer	ieu-a-1165	2.145	0.725	6.351	0.168	0.763	0.554	11.900	0.371	-0.028	0.459
	Breast cancer	ukb-a-55	0.993	0.981	1.004	0.213	-0.007	0.006	9.509	0.734	-0.001	0.025
	ER- Breast cancer	ieu-a-1128	0.716	0.364	1.408	0.333	-0.335	0.345	28.195	0.005	0.013	0.541
	ER- Breast cancer	ieu-a-1137	0.363	0.083	1.595	0.180	-1.013	0.755	20.099	0.065	0.019	0.693
	ER- Breast cancer	ieu-a-1166	0.465	0.211	1.022	0.057	-0.766	0.402	8.501	0.810	-0.001	0.969
	ER- Breast cancer	ieu-a-1136	0.750	0.296	1.903	0.545	-0.287	0.475	15.450	0.218	0.013	0.652
	ER- Breast cancer	ieu-a-1135	0.833	0.385	1.799	0.641	-0.183	0.393	20.678	0.055	0.014	0.536
	ER- Breast cancer	ieu-a-1163	1.403	0.164	12.026	0.757	0.339	1.096	14.463	0.208	0.049	0.521
	ER+ Breast cancer	ieu-a-1127	1.152	0.826	1.607	0.405	0.141	0.170	14.475	0.271	0.013	0.191

Breast cancer	ER+ Breast cancer	ieu-a-1134	0.862	0.219	3.386	0.831	-0.149	0.698	10.428	0.492	-0.026	0.551
	ER+ Breast cancer	ieu-a-1167	1.407	0.876	2.261	0.158	0.342	0.242	8.218	0.829	0.020	0.207
	ER+ Breast cancer	ieu-a-1133	1.414	0.852	2.347	0.181	0.346	0.259	12.356	0.417	0.012	0.416
	ER+ Breast cancer	ieu-a-1132	1.054	0.726	1.531	0.781	0.053	0.190	8.660	0.732	0.016	0.166
	ER+ Breast cancer	ieu-a-1164	2.582	0.317	21.040	0.375	0.949	1.070	18.236	0.076	-0.086	0.223
Liver cancer	Malignant neoplasm of liver and intrahepatic bile ducts	finn-b-C3_LIVER_INTRAHEPATIC_BILE_DUCTS	7.121	0.515	98.539	0.143	1.963	1.341	15.828	0.259	-0.032	0.722
	Malignant neoplasm of liver and intrahepatic bile ducts (all cancers excluded)	finn-b-C3_LIVER_INTRAHEPATIC_BILE_DUCTS_EXALLC	6.983	0.507	96.203	0.146	1.943	1.338	15.809	0.260	-0.029	0.744
Ovarian cancer	Serous ovarian cancer: low malignant potential	ieu-a-1230	0.492	0.121	2.000	0.322	-0.708	0.715	14.709	0.258	-0.022	0.606

Ovarian cancer	Serous ovarian cancer: low grade and low malignant potential	ieu-a-1229	0.455	0.154	1.344	0.154	-0.789	0.553	10.428	0.578	0.012	0.698
	Ovarian cancer	ieu-b-4963	1.005	0.997	1.012	0.255	0.005	0.004	12.491	0.407	0.000	0.529
	Mucinous ovarian cancer: invasive and low malignant potential	ieu-a-1231	1.063	0.344	3.282	0.915	0.061	0.575	11.680	0.472	0.020	0.552
	Low malignant potential ovarian cancer	ieu-a-1233	0.609	0.211	1.755	0.358	-0.496	0.540	11.099	0.520	-0.013	0.671
	Low malignant potential mucinous ovarian cancer	ieu-a-1232	0.916	0.174	4.820	0.918	-0.087	0.847	8.254	0.765	-0.005	0.916
	Low grade serous ovarian cancer	ieu-a-1122	0.434	0.053	3.548	0.436	-0.836	1.073	14.575	0.266	0.082	0.191
	Invasive mucinous ovarian cancer	ieu-a-1123	1.373	0.310	6.069	0.676	0.317	0.758	11.491	0.487	0.039	0.378
	Endometrioid ovarian cancer	ieu-a-1125	0.599	0.166	2.158	0.433	-0.512	0.654	18.466	0.102	-0.001	0.975
	Clear cell ovarian cancer	ieu-a-1124	1.546	0.272	8.776	0.623	0.436	0.886	17.491	0.132	0.000	0.995

Kidney cancer	"Malignant neoplasm of kidney, except renal pelvis" (all cancers excluded)	finn-b-C3_KIDNEY_NOTRE NALPELVIS_EXALLC	0.676	0.152	3.002	0.607	-0.392	0.761	16.059	0.246	0.000	0.997
	Malignant neoplasm of kidney, except renal pelvis	finn-b-C3_KIDNEY_NOTRE NALPELVIS	0.695	0.156	3.093	0.633	-0.364	0.762	16.234	0.237	-0.003	0.961
	Benign neoplasm: Kidney	finn-b-CD2_BENIGN_KIDNEY	0.612	0.069	5.455	0.660	-0.491	1.116	8.216	0.829	-0.071	0.337
	Benign neoplasm: Kidney (all cancers excluded)	finn-b-CD2_BENIGN_KIDNEY_EXALLC	0.613	0.069	5.464	0.661	-0.489	1.116	7.823	0.855	-0.067	0.361
Head and neck cancer	Head and neck cancer	ieu-b-4912	1.003	0.997	1.008	0.329	0.003	0.003	17.260	0.100	0.000	0.314
Oral and oropharyngeal cancer	Oral and oropharyngeal cancer	ieu-b-4962	1.001	0.997	1.005	0.704	0.001	0.002	12.997	0.294	0.000	0.124
	Oral cavity and pharyngeal cancer	ieu-b-89	2.200	0.356	13.598	0.396	0.789	0.929	13.629	0.136	0.025	0.725
	Oral cavity and pharyngeal cancer	ieu-b-90	6.619	1.332	32.885	0.021	1.890	0.818	7.714	0.563	0.014	0.811
	Oral cavity cancer	ieu-b-94	1.817	0.271	12.179	0.538	0.597	0.971	8.377	0.497	0.025	0.721

Oral and oropharyngeal cancer	Oropharyngeal cancer	ieu-b-96	5.373	0.691	41.753	0.108	1.681	1.046	9.185	0.420	0.022	0.770
	Oropharyngeal cancer	ieu-b-97	2.913	0.380	22.322	0.303	1.069	1.039	5.375	0.800	0.059	0.441
Prostate cancer	Prostate cancer	ieu-b-4809	1.004	0.982	1.027	0.707	0.004	0.011	12.154	0.515	0.000	0.828
	Prostate cancer	ieu-b-85	0.957	0.731	1.253	0.751	-0.044	0.138	8.271	0.825	-0.019	0.057
	Prostate cancer	ukb-d-C3_PROSTATE	1.004	0.994	1.013	0.442	0.004	0.005	9.332	0.747	0.000	0.194
	Prostate cancer	finn-b-C3_PROSTATE_EXA LLC	1.399	0.610	3.210	0.428	0.336	0.424	22.513	0.048	0.023	0.414
Oesophageal cancer	Oesophageal cancer	ieu-b-4960	0.998	0.995	1.002	0.342	-0.002	0.002	4.665	0.862	0.000	0.876
Endometrial cancer	Endometrial cancer	ebi-a-GCST006464	0.709	0.419	1.197	0.198	-0.344	0.268	7.916	0.792	0.013	0.457
	Endometrial cancer (endometrioid histology)	ebi-a-GCST006465	0.828	0.445	1.541	0.552	-0.188	0.317	7.606	0.815	-0.008	0.698

Endometrial cancer	Endometrial cancer (Non-endometrioid histology)	ebi-a-GCST006466	1.357	0.256	7.186	0.720	0.305	0.850	13.244	0.278	-0.047	0.422
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