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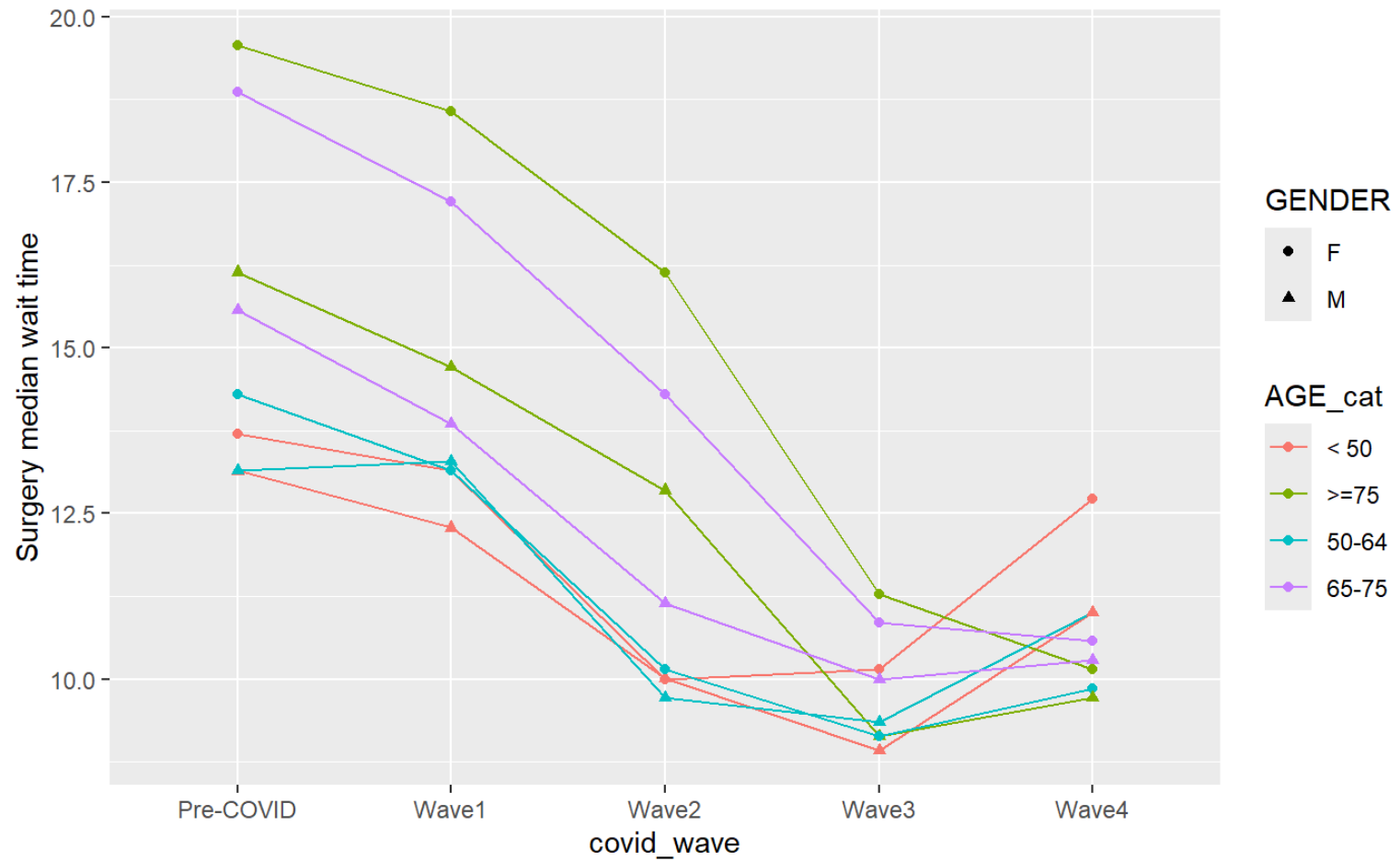
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Supplemental File 1. Exploration of effect modification and confounders of the association between wait time for surgery and COVID-19 wave

Log Wait Time	Coefficient	Standard Error	t	P>t	Low 95% CI	High 95%CI
COVID-19 Wave (reference = Pre-COVID-19)						
Wave1	-0.058	0.008	-7.14	0	-0.074	-0.042
Wave2	-0.169	0.010	-16.18	0	-0.190	-0.149
Wave3	-0.188	0.015	-12.67	0	-0.218	-0.159
Wave4	-0.221	0.019	-11.77	0	-0.258	-0.184
Age (reference = <50 years old)						
50-65	-0.0048196	0.0058385	-0.83	0.409	-0.016263	0.0066237
65-75	0.0142696	0.0066162	2.16	0.031	0.001302	0.0272372
75+	-0.0309092	0.0077165	-4.01	0	-0.0460332	-0.0157851
Gender M:F	-0.0861889	0.0045906	-18.78	0	-0.0951863	-0.0771915
Zone (reference = Calgary)						
Central	-0.6249261	0.0076977	-81.18	0	-0.6400134	-0.6098389
Edmonton	-0.3732695	0.0090215	-41.38	0	-0.3909514	-0.3555876
North	-0.7868349	0.0124859	-63.02	0	-0.811307	-0.7623628
South	-0.7535116	0.0140913	-53.47	0	-0.7811301	-0.7258931
Charlson Comorbidity Index						

(reference = 0)						
1	0.0118304	0.0105078	1.13	0.26	-0.0087646	0.0324254
2+	0.0488201	0.0105467	4.63	0	0.0281488	0.0694914
Cancer Yes:No	-0.8282498	0.0139614	-59.32	0	-0.8556138	-0.8008858
Surgery Type (reference = general)						
Cardiovascular, Thoracic, Vascular	-0.6314477	0.0147283	-42.87	0	-0.6603148	-0.6025805
Dentistry, Oral, and Maxillofacial	0.6695815	0.0347453	19.27	0	0.6014816	0.7376814
Neurology	-0.2411196	0.0190093	-12.68	0	-0.2783773	-0.203862
Obstetrics/Gynecology, Urology	-0.0119478	0.0085851	-1.39	0.164	-0.0287744	0.0048787
Ophthalmology	0.7980703	0.0103669	76.98	0	0.7777514	0.8183891
Orthopedic	0.5595651	0.0108891	51.39	0	0.5382228	0.5809075
Otolaryngology	0.5137149	0.0149298	34.41	0	0.484453	0.5429769
Transplant/other	-0.7120727	0.0523426	-13.6	0	-0.8146627	-0.6094826
Plastics	-0.0615105	0.0165402	-3.72	0	-0.0939288	-0.0290921
Interaction Terms						
grpci_i	-0.0258706	0.0020215	-12.8	0	-0.0298327	-0.0219084
zone_i	0.0051867	0.0012885	4.03	0	0.0026613	0.0077121
surgery_i	-0.0107503	0.000613	-17.54	0	-0.0119519	-0.0095488
cancer_i	0.0602512	0.0048066	12.54	0	0.0508304	0.069672
_cons	5.064972	0.0108946	464.91	0	5.043619	5.086325

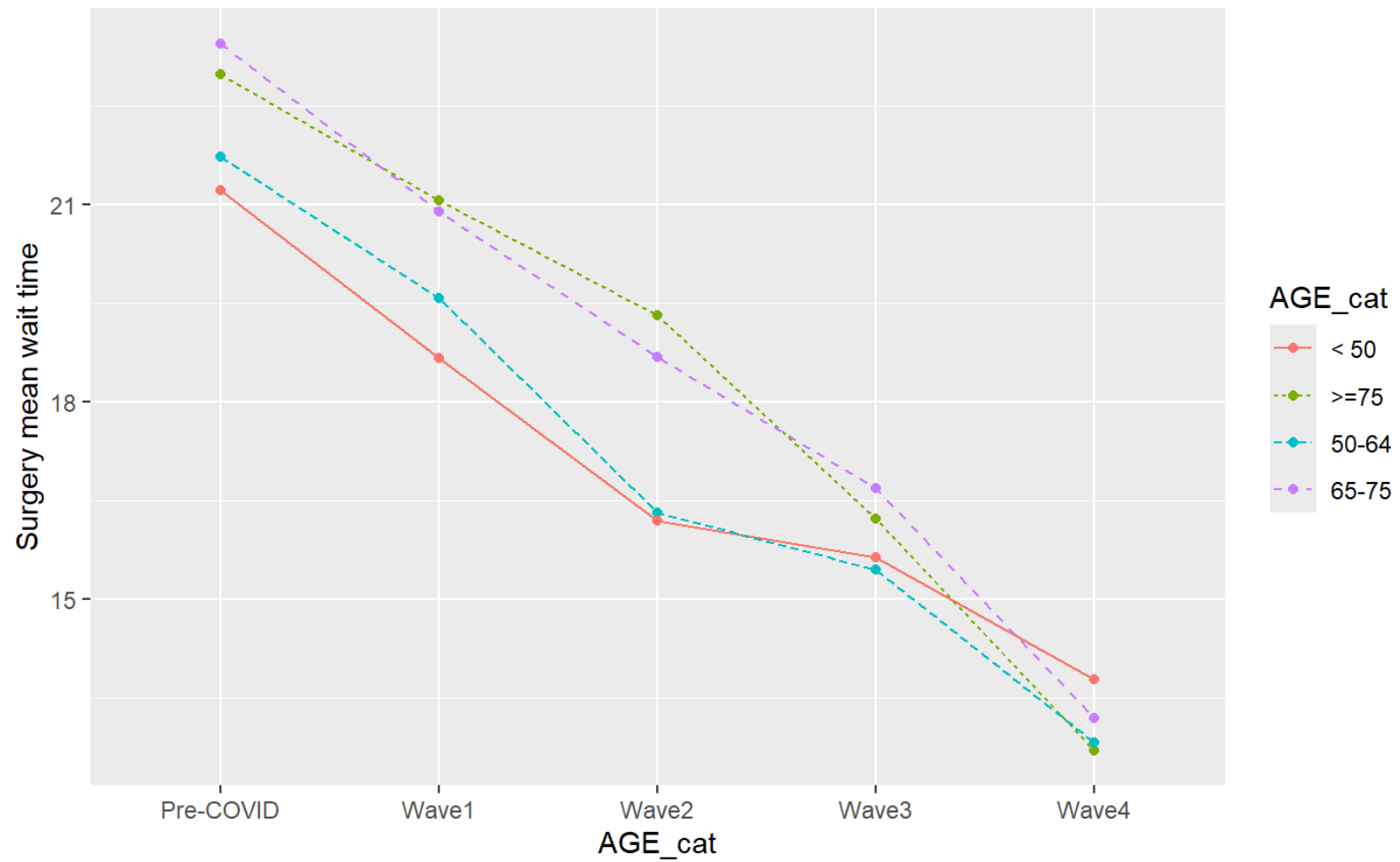Note: Convergence not achieved for quantile regression. Log transformed linear regression used as an alternative

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Surgery median wait time by age, gender and COVID waves

Surgery median wait time by gender and COVID waves

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Surgery median wait time by age category and COVID waves

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Surgery median wait time by surgery type and COVID waves

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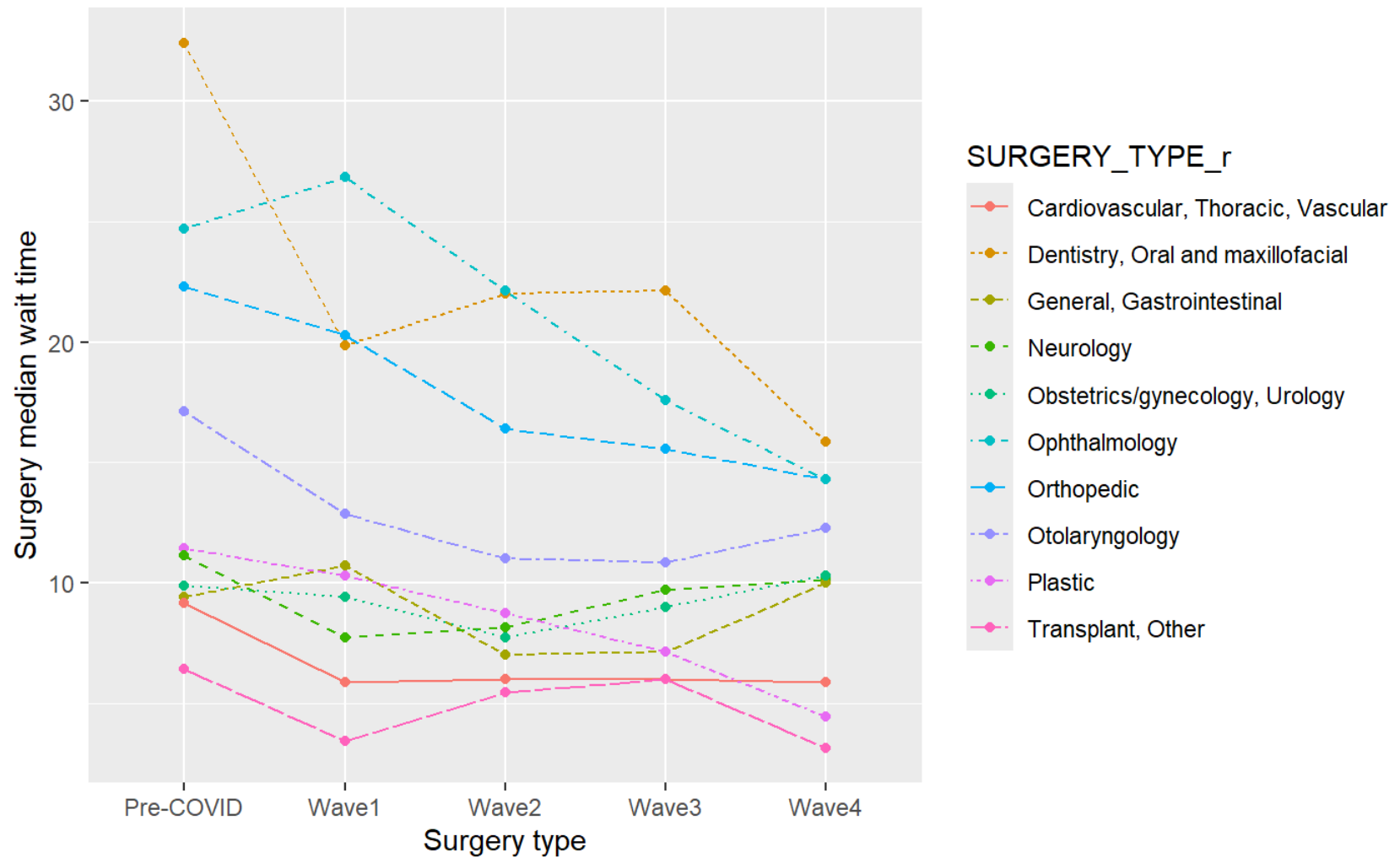
Surgery median wait time by Charlson comorbidity index and COVID waves

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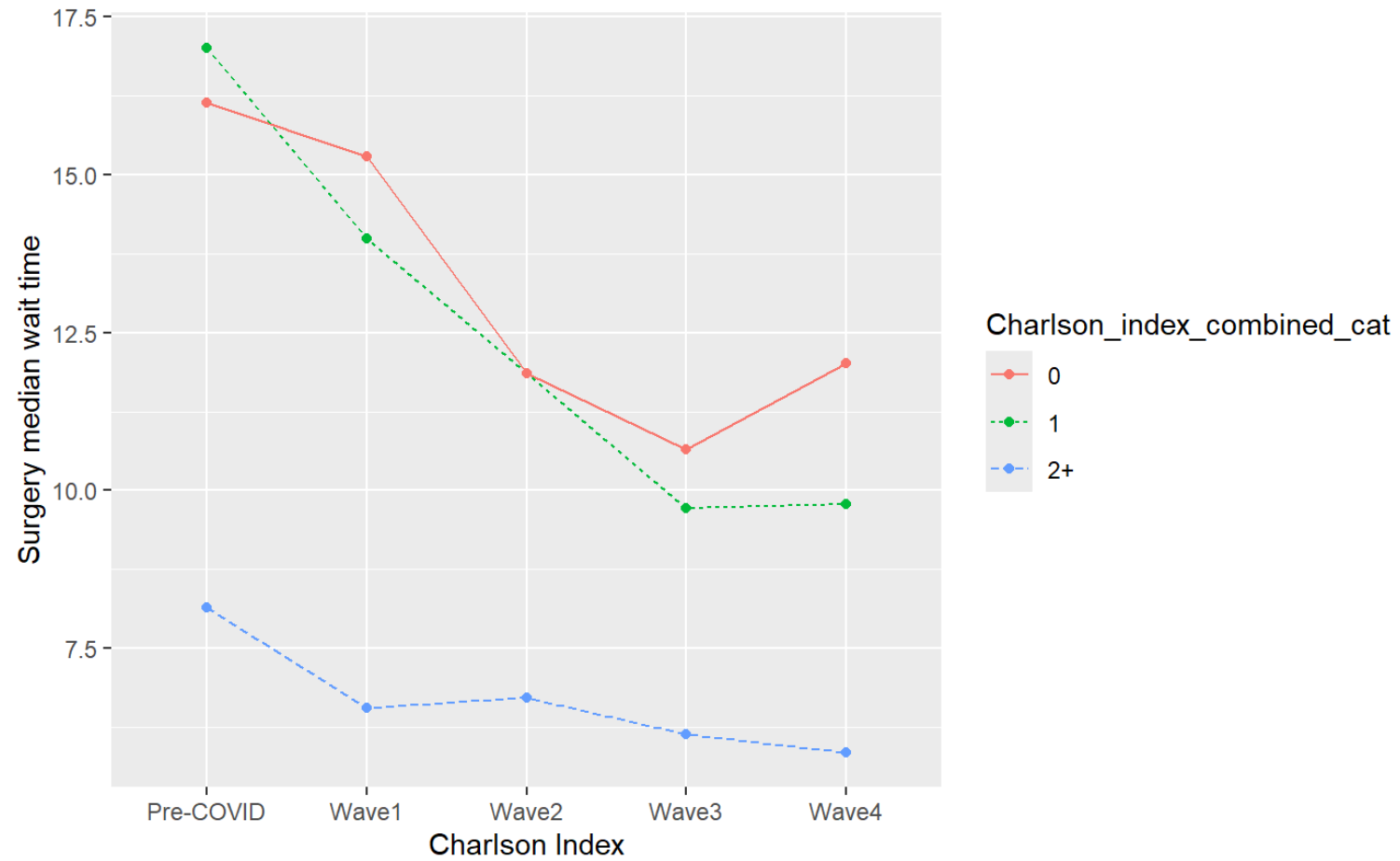
Surgery median wait time by cancer surgery and COVID waves

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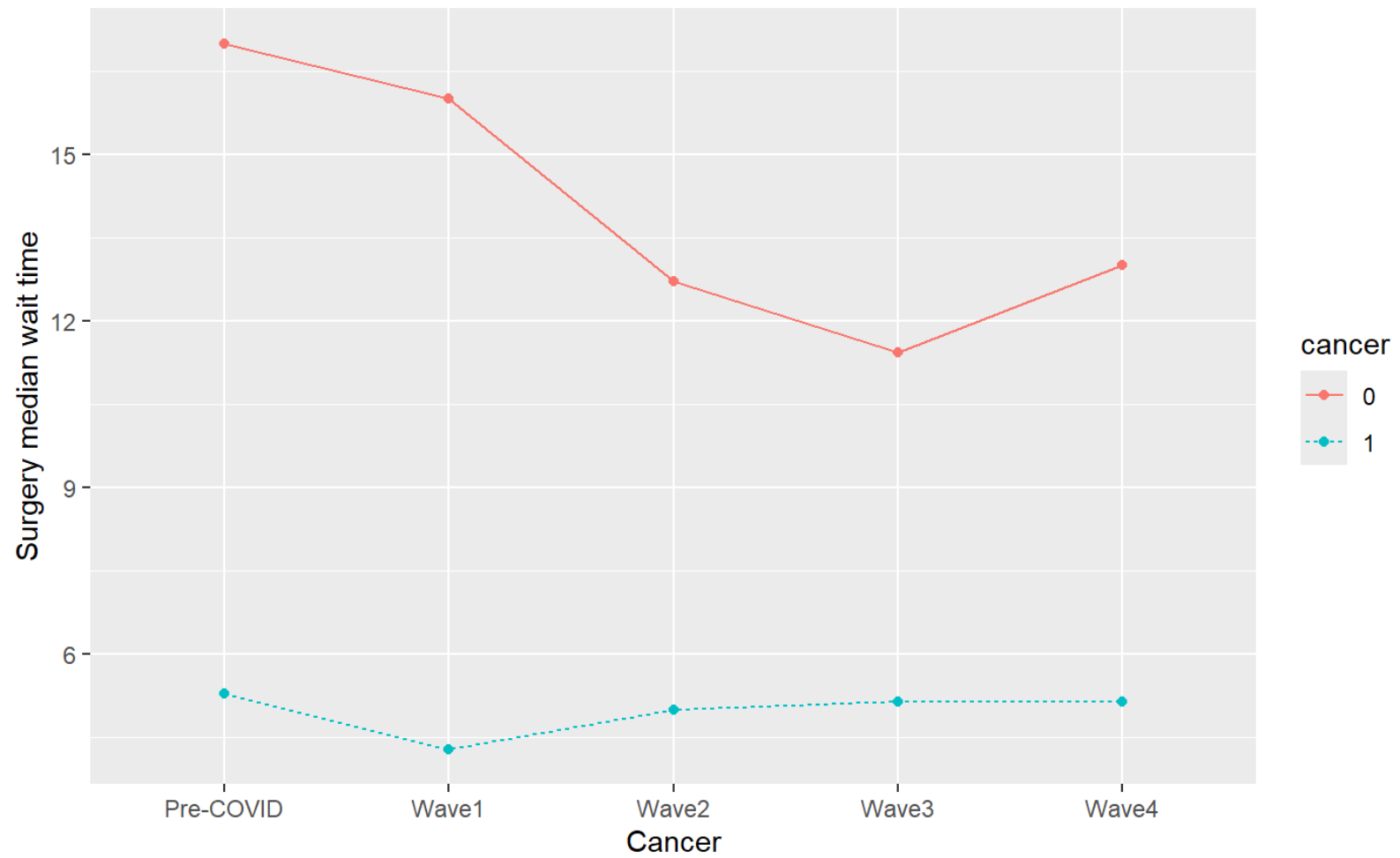
Surgery median wait time by surgery type, health zone and COVID waves

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