Estimands and Inference in Cluster-Randomized Vaccine Trials Supporting Information

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Simulated Dataset

We have the following simulated dataset that matches exactly the cluster level summary statistics given in Table 1. Here, `treat=0` represents hepatitis A vaccine, and `treat=1` represents Vi vaccine. Participants are represented with `s1` and non-participants are represented with `s0`. An event is represented with `y1`; for example, `n_y1` is the total number of events for a cluster.

cluster	treat	n	n_s1	n_s0	n_s1_y1	n_s0_y1	n_y1
1	0	543	294	249	1	0	1
2	0	586	280	306	0	1	1
3	0	578	314	264	1	2	3
4	0	571	329	242	2	1	3
5	0	625	340	285	6	1	7
6	0	625	365	260	3	2	5
7	0	603	375	228	1	1	2
8	0	643	367	276	2	0	2
9	0	706	382	324	2	0	2
10	0	658	351	307	1	1	2
11	0	697	408	289	5	0	5
12	0	673	395	278	3	2	5
13	0	704	386	318	3	1	4
14	0	733	440	293	4	2	6
15	0	716	421	295	2	1	3
16	0	780	424	356	3	0	3
17	0	776	458	318	3	1	4
18	0	744	418	326	0	0	0
19	0	799	471	328	0	1	1
20	0	776	440	336	2	1	3
21	0	761	482	279	2	0	2
22	0	763	486	277	2	2	4
23	0	897	478	419	3	0	3
24	0	773	511	262	4	2	6
25	0	807	513	294	1	0	1

cluster	treat	n	n_s1	n_s0	n_s1_y1	n_s0_y1	n_y1
26	0	818	484	334	1	1	2
27	0	885	549	336	1	0	1
28	0	872	517	355	1	2	3
29	0	925	551	374	2	0	2
30	0	940	509	431	0	2	2
31	0	933	599	334	1	0	1
32	0	902	564	338	5	0	5
33	0	925	612	313	7	1	8
34	0	1001	582	419	4	0	4
35	0	932	608	324	2	0	2
36	0	937	639	298	3	1	4
37	0	1003	619	384	3	0	3
38	0	1028	620	408	4	0	4
39	0	1003	605	398	3	1	4
40	0	1040	618	422	3	1	4
41	1	567	296	271	0	0	0
42	1	547	309	238	0	0	0
43	1	588	298	290	0	0	0
44	1	613	322	291	1	0	1
45	1	594	337	257	0	0	0
46	1	546	354	192	0	0	0
47	1	633	362	271	2	0	2
48	1	587	384	203	1	0	1
49	1	656	371	285	3	1	4
50	1	711	389	322	0	0	0
51	1	665	367	298	1	1	2
52	1	679	397	282	0	2	2
53	1	698	393	305	1	1	2
54	1	698	461	237	0	0	0
55	1	698	399	299	3	1	4
56	1	730	465	265	0	0	0
57	1	736	463	273	2	0	2
58	1	723	435	288	1	0	1
59	1	787	458	329	3	0	3
60	1	776	460	316	0	0	0
61	1	799	462	337	1	1	2
62	1	789	510	279	1	0	1
63	1	811	463	348	0	0	0
64	1	872	500	372	0	0	0
65	1	845	503	342	3	1	4
66	1	826	514	312	0	0	0
67	1	826	526	300	0	3	3
68	1	891	551	340	0	0	0
69	1	823	520	303	1	1	2

cluster	treat	n	n_s1	n_s0	n_s1_y1	n_s0_y1	n_y1
70	1	901	588	313	1	0	1
71	1	876	569	307	1	1	2
72	1	916	554	362	1	0	1
73	1	960	585	375	1	1	2
74	1	938	582	356	1	0	1
75	1	948	596	352	1	0	1
76	1	924	594	330	0	0	0
77	1	952	615	337	1	2	3
78	1	928	625	303	0	0	0
79	1	1024	647	377	1	0	1
80	1	994	645	349	2	0	2