

## Supplementary Material 2. Raw data

Patient Number	Survey date	Have you ever received the influenza vaccine or pneumonia vaccine to prevent acute exacerbations of COPD?	Received the influenza vaccine within the past year
4401040	2023-08-01	0	0
3601150	2022-12-23	0	0
3601146	2022-12-17	0	0
44010050	2023-10-17	0	0
44010049	2023-10-17	0	0
44010048	2023-09-26	1	1
44010047	2023-09-18	0	0
44010046	2023-09-02	0	0
44010045	2023-09-02	0	0
44010044	2023-08-28	0	0
44010043	2023-08-26	0	0
44010042	2023-08-22	0	0
4401041	2023-08-22	0	0
4401040	2023-08-01	0	0
4401039	2023-08-01	0	0
4401038	2023-06-26	0	0
4401037	2023-06-20	0	0
4401036	2023-06-10	0	0
4401035	2023-06-10	0	0
4401034	2023-05-24	0	0
4401033	2023-05-24	0	0
4401032	2023-05-24	0	0
4401031	2023-06-07	0	0
4401030	2023-05-20	0	0
4401029	2023-05-16	0	0
4401028	2023-05-06	0	0
4401027	2023-05-06	0	0
4401025	2023-04-27	0	0
4401024	2023-04-27	0	0
4401023	2023-04-27	0	0
4401022	2023-04-27	0	0
4401021	2023-04-19	0	0
4401026	2023-05-05	0	0
4401020	2023-04-19	0	0
4401019	2023-04-17	0	0
4401018	2023-04-17	0	0
4401017	2023-04-15	0	0
4401016	2023-04-06	0	0
4401015	2023-04-05	0	0
4401014	2023-04-05	0	0
4401013	2023-04-04	0	0
4401012	2023-04-10	0	0
4401011	2023-04-03	0	0
4401010	2023-03-29	0	0
4401009	2023-03-28	0	0
4401007	2023-03-24	0	0
4401006	2023-03-25	0	0
4401005	2023-03-23	0	0
4401004	2023-03-21	0	0
4401008	2023-03-25	1	0
4401003	2023-03-24	0	0
4401002	2023-03-16	0	0
4401001	2023-03-15	0	0
1101003	2022-10-12	0	0
1101005	2022-10-14	0	0

1101007	2023-02-06	0	0
1201100	2023-10-26	0	0
1201099	2023-10-26	0	0
1201098	2023-10-21	0	0
1201097	2023-10-21	1	1
1201096	2023-10-21	0	0
1201095	2023-10-19	0	0
1201094	2023-09-27	0	0
1201093	2023-09-28	1	1
1201092	2023-09-30	1	1
1201091	2023-09-25	0	0
1201090	2023-10-04	0	0
1201089	2023-09-09	1	0
1201088	2023-09-09	0	0
1201087	2023-09-09	0	0
1201086	2023-08-07	0	0
1201085	2023-10-17	1	1
1201084	2023-08-05	1	1
1201083	2023-08-04	0	0
1201082	2023-08-05	0	0
1201081	2023-07-30	0	0
1201080	2023-07-30	0	0
1201079	2023-07-30	0	0
1201078	2023-07-30	0	0
1201077	2023-07-18	0	0
1201076	2023-07-18	0	0
1201075	2023-07-12	0	0
1201074	2023-07-12	0	0
1201072	2023-07-03	0	0
1201071	2023-06-22	0	0
1201061	2023-04-17	0	0
1201062	2023-05-20	0	0
1201063	2023-05-20	0	0
1201064	2023-05-20	0	1
1201065	2023-05-20	0	0
1201066	2023-06-12	1	1
1201070	2023-06-18	0	1
1201069	2023-06-18	0	0
1201068	2023-06-12	0	0
1201067	2023-06-12	0	0
1201073	2023-07-12	1	1
1201060	2023-04-20	0	0
1201059	2023-04-11	0	0
1201058	2023-04-11	0	0
1201057	2023-04-10	1	1
1201056	2023-04-06	0	0
1201055	2023-03-28	0	0
1201054	2023-03-28	0	0
1201053	2023-03-28	0	0
1201052	2023-03-28	0	0
1201051	2023-03-28	0	0
1201050	2023-03-28	0	0
1201049	2023-03-28	0	0
1201048	2023-03-18	1	1
1201047	2023-03-18	1	1
1201046	2023-03-19	0	0
1201045	2023-03-19		
1201044	2023-03-19	0	0
1201043	2023-03-19		

1201041	2023-03-09		
1201042	2023-03-12	0	0
1201040	2023-03-09	0	0
1201039	2023-03-09	0	0
1201038	2023-03-09	0	0
1201037	2023-03-12	0	0
1201036	2023-03-12	1	1
1201035	2023-02-27		
1201034	2023-03-07	1	0
1201033	2023-03-07		
1201032	2023-03-07	0	0
1201031	2023-03-03	1	1
1201030	2023-03-06	0	0
1201029	2023-03-03	0	0
1201028	2023-03-03	0	0
1201027	2022-11-18	0	0
1201026	2022-11-18	1	1
1201025	2022-11-18	1	1
1201024	2022-11-15	0	0
1201023	2022-11-12	0	0
1201022	2022-11-12	0	0
1201021	2022-11-14	0	0
1201020	2022-11-12	0	0
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1201018	2022-10-31	0	0
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1201016	2022-10-19	0	0
1201015	2022-10-19	0	0
1201014	2022-10-19	0	0
1201013	2022-10-19	0	0
1201012	2022-10-13	0	0
1201011	2022-10-13	0	0
1201010	2023-03-12		
1201007	2022-11-16	0	0
1201006	2022-11-11		
1201005	2022-11-07	0	0
1201004	2022-10-06	0	0
1201003	2022-10-10	1	1
1201001	2022-10-10	0	0
1201008	2022-12-07	0	0
1201002		0	0
1201009	2022-12-25	0	0
1301075	2023-06-03	1	1
1301074	2023-06-02	0	0
1301073	2023-06-10	1	1
1301071	2023-06-08		
1301070	2023-06-03	1	1
1301069	2023-05-22	0	0
1301067	2023-05-13		
1301066	2023-05-04		
1301065	2023-05-12	0	0
1301063	2023-05-04		
1301056	2023-02-25	0	0
1301060	2023-04-28	0	0
1301055	2022-11-28	0	0
1301053	2022-11-22	1	1
1301049	2022-11-19	0	0
1301048	2020-11-19	1	0
4301073	2023-05-26	0	0

4301081	2023-06-10	1	0
4301080	2023-06-09	0	0
4301072	2023-05-25	0	0
4301079	2023-06-08	0	0
4301071	2023-05-25	0	0
4301078	2023-06-08	0	0
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4301076	2023-06-07	0	0
4301061	2023-05-10	0	0
4301060	2023-05-10	1	1
4301068	2023-05-19	0	0
4301059	2023-04-28	0	0
4301067	2023-05-18	0	0
4301058	2023-04-28	0	0
4301065	2023-05-16	0	0
4301064	2023-05-15	0	0
4301054	2023-04-28	1	1
4301063	2023-05-14	0	0
1301039	2022-11-01	0	0
4301062	2023-05-11	0	0
4301069	2023-05-20	0	0
4301066	2023-05-17	1	0
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1301014	2022-10-01	0	0
1301013	2022-09-30	0	0
1301012	2022-09-30	0	0
1301011	2022-09-28	0	0
1301010	2022-09-27	0	0
1301008	2022-09-23	0	0
1301007	2022-09-27	1	1
1301006	2022-09-26	0	0
1301005	2022-09-26	1	1
4301033	2023-03-24	1	0
4301053	2023-04-26	0	0
4301052	2023-04-22	1	1
4301050	2023-04-21	0	0
4301057	2023-04-28	0	0
4301051	2023-04-22	0	0
4301056	2023-04-28	0	0
4301055	2023-04-28	0	0
4301046	2023-04-19	0	0
4301024	2023-03-06	1	1
4301047	2023-04-20	0	0
4301074	2023-05-26	0	0
4301075	2023-05-30	1	1
4301048	2023-04-20	0	0
4301049	2023-04-21	0	0
4301045	2023-04-18	0	0
4301043	2023-04-15	0	0
4301042	2023-04-06	0	0
4301041	2023-04-06	0	0
4301040	2023-04-06	0	0
4301039	2023-04-01	0	0
4301037	2023-04-01	1	0
4301036	2023-03-27	0	0
4301035	2023-03-26	0	0

4301034	2023-03-26	1	1
4301032	2023-03-24	0	0
4301027	2023-03-09	1	0
4301026	2023-03-09	0	0
4301025	2023-03-20	0	0
4301023	2023-03-06	0	0
4301022	2023-03-06	0	0
4301021	2023-02-26	0	0
4301020	2023-02-24	0	0
4301019	2023-02-26	0	0
4301018	2023-02-23	0	0
4301016	2023-02-22	1	1
4301015	2023-02-16	0	0
4301014	2023-02-16	0	0
4301012	2023-02-17	0	0
4301011	2023-02-03	0	0
4301010	2022-12-21	0	0
4301009	2022-12-13	1	1
4301030	2023-03-14	0	0
4301017	2023-02-24	0	0
4301013	2023-02-15	0	0
4301044	2023-04-15	0	0
4301029	2023-03-11	0	0
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4501055	2023-05-20	0	0
4501052	2023-05-14	0	0
4501053	2023-05-15	1	1
4501051	2023-05-13	0	0
4501054	2023-05-16	0	0
4501049	2023-05-11	0	0
4501048	2023-05-11	0	0
4501046	2023-05-10	0	0
4501050	2023-05-12	0	0
1301061	2023-04-29	0	0
1301059	2023-04-18	0	0
1301058	2023-04-18	0	0
1301057	2023-02-23	1	1
4501047	2023-05-11	0	0
4501043	2023-05-02	0	0
3601097	2023-03-27	0	0
3601086	2023-03-16	0	0
3601083	2023-03-13	0	0
3601090	2023-03-20	0	0
3601082	2023-03-13	1	1
3601088	2023-03-20	0	0
3601089	2023-03-20	0	0
3601098	2023-03-27	0	0
3601099	2023-03-27	0	0
3601096	2023-03-27	0	0
3601095	2023-03-27	0	0
3601094	2023-03-27	0	0

3601093	2023-03-23	0	0
3601076	2023-03-13	0	0
3601075	2023-03-09	0	0
3601087	2023-03-20	0	0
3601070	2023-03-02	0	0
3601051	2023-02-15	0	0
3601069	2023-03-02	0	0
3601067	2023-02-27	0	0
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3601092	2023-03-23	0	0
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3601085	2023-03-16	0	0
3601077	2023-03-13	0	0
3601084	2023-03-16	0	0
3601091	2023-03-23	0	0
3601078	2023-03-13	0	0
3601079	2023-03-13	0	0
3601080	2023-03-13	0	0
3601081	2023-03-13	0	0
3601056	2023-02-15	0	0
3601057	2023-02-15	0	0
3601058	2023-02-15	0	0
3601073	2023-03-09	0	0
3601072	2023-03-09	0	0
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3601064	2023-02-20	0	0
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3601062	2023-02-20	1	1
3601061	2023-02-20	0	0
3601060	2023-02-20	0	0
4501045	2023-05-05	0	0
4501044	2023-05-05	0	0
4501042	2023-04-21	0	0
4501040	2023-04-14	0	0
4501041	2023-04-13	0	0
4501039	2023-04-11	1	1
4502089	2023-02-28	0	0
3601055	2023-02-15	0	0
3601054	2023-02-15	0	0
3601052	2023-02-15	0	0
3601053	2023-02-15	0	0
4501035	2023-04-08	0	0
4501038	2023-04-02	0	0
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4501034	2023-03-26	0	0
4501033	2023-03-26	0	0
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3601139	2022-11-06	0	0
3601138	2022-11-18	0	0
3601137	2022-11-16	0	0
3601136	2022-11-10	0	0
3601135	2022-11-17	0	0
3601134	2022-11-09	0	0

3601133	2022-11-20	0	0
3601132	2022-11-02	0	0
3601131	2022-11-27	0	0
3601130	2023-01-10	0	0
3601129	2023-02-14	0	0
3601128	2023-02-11	0	0
3601127	2023-01-13	0	0
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3601123	2022-11-14	0	0
3601122	2022-10-31	0	0
3601121	2022-11-04	0	0
3601120	2022-12-24	0	0
3601119	2023-02-02	0	0
3601118	2023-02-16	0	0
3601117	2022-12-24	0	0
3601116	2023-02-10	0	0
3601115	2023-02-13	0	0
3601114	2023-01-25	0	0
3601113	2023-01-30	0	0
01094133	2022-12-23	0	0
3601149	2022-12-13	0	0
3601148	2022-11-03	0	0
3601112	2023-01-07	0	0
3601147	2022-10-28	0	0
3601111	2023-01-11	0	0
10011997	2022-12-17	0	0
3601145	2023-01-06	0	0
3601144	2022-11-01	0	0
3601110	2022-11-23	0	0
3601143	2022-11-10	0	0
3601142	2022-11-10	0	0
3601109	2022-12-04	0	0
3601108	2022-12-13	0	0
3601141	2023-01-25	0	0
3601106	2023-01-30	0	0
3601107	2022-12-21	0	0
3601105	2023-01-10	0	0
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3601104	2022-12-06	0	0
3601103	2022-11-20	0	0
3601102	2022-12-13	0	0
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4501031	2023-03-24	0	0
3601101	2022-12-04	0	0
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4501028	2023-03-16	0	0
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4502093	2023-03-02	1	1
4502088	2023-02-27	0	0
4502062	2023-02-02	0	0
4502096	2023-03-03	0	0
4502091	2023-03-01	0	0
4501025	2023-03-02	0	0
4501024	2023-02-28	0	0

4501026	2023-03-02	0	0
4502087	2023-02-27	1	1
4502098	2023-03-03	0	0
4502095	2023-03-02	0	0
4502094	2023-03-02	0	0
4502037	2022-12-27	0	0
4502084	2023-02-24	1	1
4502085	2023-02-24	0	0
4502086	2023-02-27	1	1
4502090	2023-02-28	0	0
4502092	2023-03-01	0	0
4502083	2023-02-22	0	0
4502082	2023-02-22	0	0
4502081	2023-02-22	0	0
4502079	2023-02-09	1	1
4502078	2023-02-15	0	0
4502076	2023-02-17	0	0
4502075	2023-02-20	0	0
4502074	2023-02-20	0	0
4502073	2023-02-20	1	1
4502071	2023-02-20	0	0
4502072	2023-02-20	0	0
4502070	2023-02-14	1	1
4502069	2023-02-09	0	0
4502068	2023-01-31	0	0
4502067	2023-02-03	1	0
4502066	2023-01-30	0	0
4502065	2023-02-03	0	0
4502064	2023-02-01	0	0
4502063	2023-03-06	0	0
4502061	2023-02-03	0	0
0	2023-01-12		
4501023	2023-02-21	0	0
4501022	2023-02-18	0	0
4501021	2023-02-17	0	0
4502051	2023-02-01	0	0
4502057	2023-02-10	0	0
4502056	2023-02-11	0	0
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4502049	2023-01-29	0	0
4502046	2023-01-12	0	0
4502045	2023-01-11	0	0
4502044	2023-01-10	1	1
4502043	2023-01-09	1	0
4502042	2022-12-30	0	0
4502059	2023-02-01	0	0
4502058	2023-02-01	0	0
4502050	2023-01-31	1	1
4502060	2023-02-01	0	0
4501019	2023-01-30	0	0
4501018	2023-01-27	0	0
4501020	2023-01-31	0	0
1301019	2022-10-12	1	1
1301027	2022-10-22	0	0
1301028	2022-10-22	1	1

1301020	2022-10-13	0	0
1301021	2022-10-15	1	0
1301022	2022-10-15	1	1
1301023	2022-10-17	0	0
1301024	2022-10-18	1	1
1301025	2022-10-18	1	1
1301041	2022-11-05	0	0
1301051	2022-11-21	1	1
1301047	2022-11-20	0	0
1301050	2022-11-20	1	1
1301045	2022-11-12	1	1
1301044	2022-11-12	1	0
1301042	2022-11-08	1	1
1301040	2022-11-01	1	1
1301038	2022-10-30	1	0
1301016	2022-10-04	0	0
1301037	2022-10-30	0	0
1301036	2022-10-30	1	1
1301035	2022-10-29	0	0
1301033	2022-10-24	0	0
1301032	2022-10-23	0	0
1301031	2022-10-23	1	0
1301030	2022-10-23	0	0
1301029	2022-10-22	0	0
1301034	2022-10-29	1	1
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4502039	2022-12-27	0	0
4502038	2022-12-27	0	0
4502028	2022-12-07	1	1
4501017	2022-12-29	0	0
4501015	2022-12-26	0	0
4502047	2022-12-27	0	0
4501016	2022-12-27	0	0
4502032	2022-12-17	0	0
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4502036	2022-12-19	0	0
4502034	2022-12-13	0	0
1101006	2022-11-08	1	1
4501014	2022-12-14	0	0
4501013	2022-12-10	0	0
4502035	2022-12-13	0	0
4502027	2022-12-06	0	0
4502025	2022-12-06	0	0
4502026	2022-12-06	0	0
4502030	2022-12-07	1	0
4502017	2022-11-24	0	0
4301008	2022-12-07	0	0
4502029	2022-12-06	1	1
4301002	2022-10-30	0	0
4301001	2022-10-25	0	0
4301007	2022-11-16	0	0
4301006	2022-11-16	0	0
4301005	2022-11-09	0	0
4301004	2022-11-09	0	0
4301003	2022-11-04	1	1
4502022	2022-11-30	0	0

4502024	2022-12-02	0	0
4502023	2022-11-30	0	0
4501011	2022-11-27	0	0
4501012	2022-11-27	0	0
4502021	2022-11-30	0	0
4502020	2022-11-25	0	0
4502015	2022-11-22	1	1
4502012	2022-11-21	1	0
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4501010	2022-11-22	0	0
4501009	2022-11-22	0	0
4502013	2022-11-21	1	1
4502019	2022-11-25	0	0
4502016	2022-11-22	0	0
4502018	2022-11-24	0	0
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1301052	2022-11-22	1	0
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4502004	2022-11-16	0	0
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4502011	2022-11-21	0	0
4502009	2022-11-17	0	0
4502006	2022-11-16	1	1
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4501002	2022-11-08	0	0
4502005	2022-11-16	0	0
4502010	2022-11-17	0	0
1301009	2022-09-28	0	0
1301046	2022-11-13	0	0
4501004	2022-11-15	0	0
4502002	2022-11-01	0	0
4502003	2022-11-09	0	0
4502100	2022-10-31	1	1
4502001	2022-10-31	0	0
4502007	2022-11-11	0	0
4501001	2022-10-31	0	0
4501003	2022-11-08	0	0
1301004	2022-09-25	1	1
1301003	2022-09-25	0	0
1301002	2022-09-24	0	0
1101002	2022-09-19	0	0
1101001	2022-09-06	1	1
1301017	2022-10-06	1	0







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Reasons for not receiving the influenza or pneumonia vaccines

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Other reasons for not receiving the influenza or pneumonia vaccines

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No local requirement for vaccination

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Not recommended due to COPD at the time  
COPD

Renal insufficiency



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Health center advised against vaccination

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Community doctor said vaccination was not yet possible

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Primary care doctor advised waiting for now

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