

Table 1: Results for a survival outcome and restricted mean survival time in a hospitalized population.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Supp. 02	100	0	0.05	80.41	0.03	0.87
LASSO, B	100	0	0.06	82.84	0.01	0.90
Age & supp. 02	100	0	0.05	83.15	0.02	0.90
LASSO, A	100	0	0.06	83.26	0.01	0.90
LASSO, all	100	0	0.06	83.39	0.01	0.90
Set B	100	0	0.07	87.89	0.01	0.95
X-ray bilat. infilt.	100	0	0.05	88.59	0.03	0.96
Dyspnea	100	0	0.04	90.54	0.02	0.98
Sex	100	0	0.04	92.33	0.02	1.00
Unadjusted	100	0	0.04	92.48	0.03	1.00
No. symptoms	100	0	0.04	92.98	0.02	1.01
BMI	100	0	0.05	93.10	0.03	1.01
No. comorbid	100	0	0.05	93.14	0.03	1.01
Hypertension	100	0	0.05	94.12	0.02	1.02
Age	100	0	0.05	94.20	0.02	1.02
Smoking status	100	0	0.05	94.29	0.03	1.02
All	100	0	0.05	106.01	0.02	1.15
Set A	100	0	0.06	106.38	0.03	1.15
LASSO, A	250	0	0.06	82.42	0.03	0.89
LASSO, B	250	0	0.05	83.06	0.03	0.89
LASSO, all	250	0	0.06	83.16	0.03	0.90
Supp. 02	250	0	0.05	84.00	0.03	0.90
Age & supp. 02	250	0	0.05	84.48	0.03	0.91
Set B	250	0	0.05	85.23	0.03	0.92
X-ray bilat. infilt.	250	0	0.05	89.86	0.03	0.97
Set A	250	0	0.04	91.44	0.03	0.98
Age	250	0	0.05	92.05	0.04	0.99
Sex	250	0	0.05	92.06	0.04	0.99
Unadjusted	250	0	0.05	92.90	0.04	1.00
BMI	250	0	0.05	92.91	0.04	1.00
Dyspnea	250	0	0.05	92.93	0.04	1.00
No. comorbid	250	0	0.05	93.12	0.04	1.00
No. symptoms	250	0	0.05	93.37	0.04	1.01
Smoking status	250	0	0.06	93.88	0.04	1.01
Hypertension	250	0	0.05	93.95	0.04	1.01
All	250	0	0.04	96.29	0.03	1.04
LASSO, B	500	0	0.06	82.14	0.00	0.89
LASSO, all	500	0	0.05	82.33	0.00	0.89
Supp. 02	500	0	0.06	82.52	0.00	0.89
LASSO, A	500	0	0.05	82.64	0.00	0.89
Set B	500	0	0.06	82.90	0.00	0.89
Age & supp. 02	500	0	0.06	83.00	0.00	0.90
Set A	500	0	0.05	83.52	0.00	0.90
All	500	0	0.05	84.77	0.00	0.91
X-ray bilat. infilt.	500	0	0.05	88.75	-0.01	0.96
Sex	500	0	0.05	91.99	0.00	0.99
Dyspnea	500	0	0.05	92.26	0.00	1.00
Hypertension	500	0	0.05	92.36	0.00	1.00
No. symptoms	500	0	0.05	92.62	-0.01	1.00

Smoking status	500	0	0.06	92.63	-0.01	1.00
BMI	500	0	0.05	92.65	0.00	1.00
Unadjusted	500	0	0.05	92.70	0.00	1.00
Age	500	0	0.06	92.83	0.00	1.00
No. comorbid	500	0	0.05	92.96	-0.01	1.00
Set A	1500	0	0.04	77.88	0.00	0.84
LASSO, A	1500	0	0.05	78.14	0.00	0.84
LASSO, all	1500	0	0.05	78.37	0.00	0.84
All	1500	0	0.05	78.38	0.00	0.84
LASSO, B	1500	0	0.05	78.49	0.00	0.84
Set B	1500	0	0.05	78.52	0.00	0.85
Age & supp. O2	1500	0	0.05	79.34	0.00	0.85
Supp. O2	1500	0	0.05	81.17	0.00	0.87
X-ray bilat. infilt.	1500	0	0.06	88.70	0.00	0.95
Age	1500	0	0.06	90.99	0.00	0.98
Sex	1500	0	0.06	91.42	0.00	0.98
Dyspnea	1500	0	0.06	92.04	0.00	0.99
No. comorbid	1500	0	0.06	92.51	0.00	1.00
Smoking status	1500	0	0.06	92.55	0.00	1.00
Hypertension	1500	0	0.06	92.85	0.00	1.00
No. symptoms	1500	0	0.06	92.91	0.00	1.00
Unadjusted	1500	0	0.06	92.92	0.00	1.00
BMI	1500	0	0.06	92.95	0.00	1.00

Table 2: Results for a survival outcome and restricted mean survival time in a hospitalized population.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Supp. 02	100	0.55	0.10	71.44	0.02	0.87
LASS0, B	100	0.55	0.12	72.86	0.01	0.89
LASS0, A	100	0.55	0.11	73.41	0.00	0.89
LASS0, all	100	0.55	0.11	73.85	0.00	0.90
Age & supp. 02	100	0.55	0.10	74.21	0.01	0.90
X-ray bilat. infilt.	100	0.55	0.10	79.04	0.01	0.96
Set B	100	0.55	0.12	80.29	0.00	0.98
Dyspnea	100	0.55	0.10	80.74	0.02	0.98
Unadjusted	100	0.55	0.10	82.16	0.02	1.00
Sex	100	0.55	0.10	82.32	0.01	1.00
No. comorbid	100	0.55	0.10	82.53	0.02	1.00
BMI	100	0.55	0.10	82.92	0.02	1.01
No. symptoms	100	0.55	0.10	83.06	0.01	1.01
Age	100	0.55	0.11	83.57	0.01	1.02
Hypertension	100	0.55	0.11	83.71	0.02	1.02
Smoking status	100	0.55	0.11	84.48	0.01	1.03
Set A	100	0.55	0.10	87.67	0.01	1.07
All	100	0.55	0.10	91.62	0.02	1.12
LASS0, B	250	0.55	0.21	74.50	0.03	0.90
LASS0, A	250	0.55	0.21	74.64	0.03	0.90
Supp. 02	250	0.55	0.20	74.68	0.03	0.90
Age & supp. 02	250	0.55	0.20	74.98	0.03	0.91
LASS0, all	250	0.55	0.21	75.05	0.03	0.91
Set B	250	0.55	0.20	76.63	0.02	0.93
Set A	250	0.55	0.18	78.22	0.03	0.95
X-ray bilat. infilt.	250	0.55	0.18	80.13	0.03	0.97
Sex	250	0.55	0.17	81.93	0.03	0.99
Age	250	0.55	0.18	82.26	0.03	1.00
Dyspnea	250	0.55	0.19	82.32	0.04	1.00
Unadjusted	250	0.55	0.17	82.57	0.03	1.00
No. comorbid	250	0.55	0.18	82.73	0.04	1.00
No. symptoms	250	0.55	0.17	82.93	0.03	1.00
BMI	250	0.55	0.17	82.94	0.04	1.00
All	250	0.55	0.17	83.02	0.03	1.01
Smoking status	250	0.55	0.18	83.57	0.03	1.01
Hypertension	250	0.55	0.18	83.58	0.03	1.01
LASS0, B	500	0.55	0.30	70.70	0.00	0.90
LASS0, all	500	0.55	0.30	70.74	0.00	0.90
Supp. 02	500	0.55	0.28	70.88	0.00	0.90
LASS0, A	500	0.55	0.31	71.09	0.00	0.90
Set B	500	0.55	0.30	71.17	0.00	0.90
Age & supp. 02	500	0.55	0.30	71.44	0.00	0.91
Set A	500	0.55	0.30	71.76	0.00	0.91
All	500	0.55	0.30	72.39	0.00	0.92
X-ray bilat. infilt.	500	0.55	0.28	75.62	0.00	0.96
Sex	500	0.55	0.26	78.19	0.00	0.99
Dyspnea	500	0.55	0.27	78.50	0.00	1.00
Hypertension	500	0.55	0.26	78.55	0.00	1.00
BMI	500	0.55	0.27	78.61	0.00	1.00

No. symptoms	500	0.55	0.26	78.63	0.00	1.00
Age	500	0.55	0.27	78.65	0.00	1.00
Unadjusted	500	0.55	0.26	78.78	0.00	1.00
Smoking status	500	0.55	0.27	78.86	0.00	1.00
No. comorbid	500	0.55	0.27	79.03	0.00	1.00
LASSO, A	1500	0.55	0.72	67.81	0.00	0.85
Set A	1500	0.55	0.72	67.88	0.00	0.85
LASSO, all	1500	0.55	0.72	68.01	0.00	0.85
LASSO, B	1500	0.55	0.72	68.07	0.00	0.85
Set B	1500	0.55	0.71	68.38	0.00	0.86
All	1500	0.55	0.71	68.44	0.00	0.86
Age & supp. O2	1500	0.55	0.71	69.14	0.00	0.87
Supp. O2	1500	0.55	0.71	70.48	0.00	0.88
X-ray bilat. infilt.	1500	0.55	0.68	76.12	0.00	0.95
Age	1500	0.55	0.66	78.59	0.00	0.98
Sex	1500	0.55	0.66	78.74	0.00	0.99
Dyspnea	1500	0.55	0.66	79.20	0.00	0.99
Smoking status	1500	0.55	0.66	79.57	0.00	1.00
No. comorbid	1500	0.55	0.66	79.59	0.00	1.00
Hypertension	1500	0.55	0.66	79.91	0.00	1.00
Unadjusted	1500	0.55	0.66	79.91	0.00	1.00
No. symptoms	1500	0.55	0.66	79.95	0.00	1.00
BMI	1500	0.55	0.66	80.05	0.00	1.00

Table 3: Results for a survival outcome and restricted mean survival time in a hospitalized population.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Supp. 02	100	1.07	0.27	64.24	0.03	0.88
LASS0, B	100	1.07	0.30	65.62	0.02	0.89
LASS0, A	100	1.07	0.29	66.08	0.02	0.90
Age & supp. 02	100	1.07	0.28	66.77	0.02	0.91
LASS0, all	100	1.07	0.30	66.83	0.02	0.91
X-ray bilat. infilt.	100	1.07	0.27	70.78	0.03	0.96
Dyspnea	100	1.07	0.27	72.23	0.03	0.98
Sex	100	1.07	0.26	73.26	0.03	1.00
No. comorbid	100	1.07	0.25	73.41	0.03	1.00
Unadjusted	100	1.07	0.26	73.42	0.03	1.00
Set B	100	1.07	0.27	73.72	0.02	1.00
No. symptoms	100	1.07	0.25	74.09	0.02	1.01
BMI	100	1.07	0.27	74.35	0.03	1.01
Hypertension	100	1.07	0.26	74.43	0.03	1.01
Age	100	1.07	0.27	75.14	0.03	1.02
Smoking status	100	1.07	0.27	75.64	0.01	1.03
Set A	100	1.07	0.24	78.76	0.05	1.07
All	100	1.07	0.22	87.57	0.02	1.19
LASS0, A	250	1.07	0.62	63.71	0.03	0.90
LASS0, B	250	1.07	0.62	63.81	0.03	0.90
LASS0, all	250	1.07	0.61	64.13	0.03	0.90
Supp. 02	250	1.07	0.60	64.13	0.04	0.90
Age & supp. 02	250	1.07	0.60	64.32	0.03	0.90
Set B	250	1.07	0.59	64.49	0.03	0.91
Set A	250	1.07	0.58	68.00	0.03	0.96
X-ray bilat. infilt.	250	1.07	0.57	69.10	0.04	0.97
Age	250	1.07	0.56	70.39	0.04	0.99
Dyspnea	250	1.07	0.56	70.56	0.04	0.99
Sex	250	1.07	0.56	70.78	0.04	1.00
Unadjusted	250	1.07	0.55	71.07	0.04	1.00
No. comorbid	250	1.07	0.56	71.18	0.04	1.00
No. symptoms	250	1.07	0.55	71.19	0.04	1.00
BMI	250	1.07	0.55	71.26	0.04	1.00
All	250	1.07	0.54	71.67	0.05	1.01
Hypertension	250	1.07	0.56	71.89	0.04	1.01
Smoking status	250	1.07	0.57	72.03	0.04	1.01
LASS0, B	500	1.07	0.88	62.56	0.01	0.91
Supp. 02	500	1.07	0.86	62.64	0.01	0.91
Set B	500	1.07	0.87	62.77	0.00	0.91
LASS0, A	500	1.07	0.87	62.78	0.00	0.91
Age & supp. 02	500	1.07	0.87	62.81	0.01	0.91
LASS0, all	500	1.07	0.87	62.83	0.00	0.91
Set A	500	1.07	0.86	63.05	0.00	0.91
All	500	1.07	0.86	63.98	0.00	0.93
X-ray bilat. infilt.	500	1.07	0.83	66.17	0.00	0.96
Sex	500	1.07	0.83	68.52	0.00	0.99
Dyspnea	500	1.07	0.83	68.64	0.00	0.99
No. symptoms	500	1.07	0.83	68.81	0.00	1.00
Hypertension	500	1.07	0.82	68.86	0.00	1.00

BMI	500	1.07	0.83	68.92	0.00	1.00
Smoking status	500	1.07	0.82	68.98	0.00	1.00
Unadjusted	500	1.07	0.83	69.00	0.00	1.00
Age	500	1.07	0.83	69.07	0.00	1.00
No. comorbid	500	1.07	0.82	69.14	0.00	1.00
LASSO, A	1500	1.07	1.00	58.75	0.00	0.86
Set A	1500	1.07	1.00	58.78	0.00	0.86
LASSO, B	1500	1.07	1.00	58.92	0.00	0.86
LASSO, all	1500	1.07	1.00	58.96	0.00	0.86
Set B	1500	1.07	1.00	59.20	0.00	0.86
All	1500	1.07	1.00	59.25	0.00	0.86
Age & supp. 02	1500	1.07	1.00	60.00	0.00	0.88
Supp. 02	1500	1.07	1.00	60.99	0.00	0.89
X-ray bilat. infilt.	1500	1.07	1.00	65.30	0.00	0.95
Sex	1500	1.07	1.00	67.39	0.00	0.98
Age	1500	1.07	1.00	67.57	0.00	0.99
Dyspnea	1500	1.07	1.00	68.15	0.00	0.99
Smoking status	1500	1.07	1.00	68.17	0.00	1.00
No. comorbid	1500	1.07	1.00	68.28	0.00	1.00
No. symptoms	1500	1.07	1.00	68.49	0.00	1.00
Unadjusted	1500	1.07	1.00	68.51	0.00	1.00
Hypertension	1500	1.07	1.00	68.56	0.00	1.00
BMI	1500	1.07	1.00	68.68	0.00	1.00

Table 4: Results for the risk difference in a hospitalized population.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Supp. 02	100	0	0.05	0.68	0	0.89
LASS0, B	100	0	0.06	0.70	0	0.92
LASS0, A	100	0	0.07	0.70	0	0.92
LASS0, all	100	0	0.06	0.70	0	0.92
Age & supp. 02	100	0	0.05	0.71	0	0.93
X-ray bilat. infilt.	100	0	0.05	0.74	0	0.96
Dyspnea	100	0	0.04	0.76	0	0.99
Sex	100	0	0.05	0.76	0	1.00
No. symptoms	100	0	0.04	0.76	0	1.00
Unadjusted	100	0	0.05	0.76	0	1.00
Set B	100	0	0.07	0.77	0	1.01
No. comorbid	100	0	0.05	0.77	0	1.01
BMI	100	0	0.05	0.77	0	1.01
Hypertension	100	0	0.05	0.78	0	1.02
Smoking status	100	0	0.06	0.78	0	1.02
Age	100	0	0.05	0.78	0	1.02
Set A	100	0	0.06	0.82	0	1.07
All	100	0	0.06	0.84	0	1.09
LASS0, A	250	0	0.05	0.69	0	0.91
LASS0, B	250	0	0.05	0.69	0	0.91
LASS0, all	250	0	0.05	0.69	0	0.91
Supp. 02	250	0	0.05	0.70	0	0.92
Age & supp. 02	250	0	0.04	0.71	0	0.93
Set B	250	0	0.05	0.71	0	0.94
Set A	250	0	0.04	0.72	0	0.96
X-ray bilat. infilt.	250	0	0.04	0.74	0	0.97
Sex	250	0	0.04	0.75	0	0.99
Age	250	0	0.05	0.75	0	1.00
All	250	0	0.05	0.76	0	1.00
BMI	250	0	0.04	0.76	0	1.00
No. symptoms	250	0	0.04	0.76	0	1.00
Unadjusted	250	0	0.04	0.76	0	1.00
No. comorbid	250	0	0.05	0.76	0	1.00
Dyspnea	250	0	0.05	0.76	0	1.00
Hypertension	250	0	0.04	0.77	0	1.01
Smoking status	250	0	0.05	0.77	0	1.01
LASS0, B	500	0	0.05	0.68	0	0.91
LASS0, all	500	0	0.06	0.68	0	0.91
Supp. 02	500	0	0.05	0.68	0	0.91
LASS0, A	500	0	0.06	0.68	0	0.91
Age & supp. 02	500	0	0.05	0.68	0	0.91
Set A	500	0	0.05	0.68	0	0.92
Set B	500	0	0.05	0.69	0	0.92
All	500	0	0.05	0.70	0	0.93
X-ray bilat. infilt.	500	0	0.05	0.72	0	0.97
Sex	500	0	0.05	0.74	0	0.99
No. symptoms	500	0	0.05	0.75	0	1.00
Hypertension	500	0	0.06	0.75	0	1.00
Dyspnea	500	0	0.06	0.75	0	1.00
Smoking status	500	0	0.05	0.75	0	1.00

BMI	500	0	0.06	0.75	0	1.00
Unadjusted	500	0	0.06	0.75	0	1.00
No. comorbid	500	0	0.06	0.75	0	1.00
Age	500	0	0.06	0.75	0	1.00
LASSO, A	1500	0	0.04	0.66	0	0.87
LASSO, all	1500	0	0.04	0.66	0	0.87
LASSO, B	1500	0	0.04	0.66	0	0.87
Set A	1500	0	0.04	0.66	0	0.87
Set B	1500	0	0.05	0.67	0	0.88
All	1500	0	0.04	0.67	0	0.88
Age & supp. 02	1500	0	0.05	0.67	0	0.89
Supp. 02	1500	0	0.05	0.68	0	0.90
X-ray bilat. infilt.	1500	0	0.06	0.73	0	0.96
Sex	1500	0	0.05	0.75	0	0.98
Age	1500	0	0.05	0.75	0	0.99
Dyspnea	1500	0	0.05	0.76	0	1.00
Smoking status	1500	0	0.05	0.76	0	1.00
No. comorbid	1500	0	0.06	0.76	0	1.00
No. symptoms	1500	0	0.05	0.76	0	1.00
Hypertension	1500	0	0.05	0.76	0	1.00
Unadjusted	1500	0	0.05	0.76	0	1.00
BMI	1500	0	0.05	0.76	0	1.00

Table 5: Results for the risk difference in a hospitalized population.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Supp. 02	100	0.04	0.08	0.64	0	0.89
LASS0, B	100	0.04	0.10	0.65	0	0.90
LASS0, A	100	0.04	0.10	0.66	0	0.91
LASS0, all	100	0.04	0.10	0.67	0	0.92
Age & supp. 02	100	0.04	0.09	0.68	0	0.93
X-ray bilat. infilt.	100	0.04	0.09	0.70	0	0.96
Set B	100	0.04	0.10	0.71	0	0.97
Dyspnea	100	0.04	0.09	0.72	0	0.99
No. symptoms	100	0.04	0.09	0.72	0	1.00
Unadjusted	100	0.04	0.09	0.72	0	1.00
Sex	100	0.04	0.09	0.73	0	1.00
No. comorbid	100	0.04	0.10	0.73	0	1.00
Set A	100	0.04	0.10	0.74	0	1.01
Hypertension	100	0.04	0.09	0.74	0	1.02
BMI	100	0.04	0.09	0.74	0	1.02
Age	100	0.04	0.10	0.74	0	1.03
Smoking status	100	0.04	0.10	0.75	0	1.03
All	100	0.04	0.09	0.77	0	1.06
LASS0, B	250	0.04	0.17	0.65	0	0.93
Supp. 02	250	0.04	0.17	0.65	0	0.93
LASS0, A	250	0.04	0.17	0.65	0	0.93
LASS0, all	250	0.04	0.17	0.66	0	0.93
Age & supp. 02	250	0.04	0.16	0.66	0	0.93
Set A	250	0.04	0.15	0.67	0	0.96
Set B	250	0.04	0.16	0.68	0	0.96
X-ray bilat. infilt.	250	0.04	0.15	0.69	0	0.98
Sex	250	0.04	0.14	0.70	0	0.99
No. symptoms	250	0.04	0.14	0.70	0	1.00
Age	250	0.04	0.14	0.70	0	1.00
Dyspnea	250	0.04	0.15	0.71	0	1.00
Unadjusted	250	0.04	0.14	0.71	0	1.00
No. comorbid	250	0.04	0.14	0.71	0	1.00
BMI	250	0.04	0.14	0.71	0	1.00
All	250	0.04	0.15	0.71	0	1.01
Smoking status	250	0.04	0.13	0.71	0	1.01
Hypertension	250	0.04	0.14	0.72	0	1.01
Supp. 02	500	0.04	0.23	0.66	0	0.92
LASS0, B	500	0.04	0.24	0.66	0	0.93
LASS0, all	500	0.04	0.25	0.66	0	0.93
Set B	500	0.04	0.23	0.66	0	0.93
Age & supp. 02	500	0.04	0.23	0.66	0	0.93
LASS0, A	500	0.04	0.25	0.66	0	0.93
Set A	500	0.04	0.24	0.67	0	0.94
All	500	0.04	0.23	0.67	0	0.95
X-ray bilat. infilt.	500	0.04	0.24	0.69	0	0.97
Sex	500	0.04	0.22	0.71	0	0.99
Dyspnea	500	0.04	0.22	0.71	0	1.00
Hypertension	500	0.04	0.22	0.71	0	1.00
No. symptoms	500	0.04	0.22	0.71	0	1.00
BMI	500	0.04	0.22	0.71	0	1.00

Unadjusted	500	0.04	0.22	0.71	0	1.00
No. comorbid	500	0.04	0.22	0.71	0	1.00
Smoking status	500	0.04	0.22	0.71	0	1.00
Age	500	0.04	0.22	0.71	0	1.00
LASSO, A	1500	0.04	0.58	0.63	0	0.88
LASSO, all	1500	0.04	0.58	0.63	0	0.88
LASSO, B	1500	0.04	0.58	0.63	0	0.88
Set A	1500	0.04	0.57	0.63	0	0.88
Set B	1500	0.04	0.56	0.63	0	0.89
All	1500	0.04	0.57	0.64	0	0.89
Age & supp. 02	1500	0.04	0.57	0.64	0	0.89
Supp. 02	1500	0.04	0.57	0.65	0	0.90
X-ray bilat. infilt.	1500	0.04	0.53	0.69	0	0.96
Sex	1500	0.04	0.53	0.71	0	0.99
Age	1500	0.04	0.52	0.71	0	0.99
Dyspnea	1500	0.04	0.53	0.71	0	1.00
No. comorbid	1500	0.04	0.52	0.71	0	1.00
Smoking status	1500	0.04	0.53	0.71	0	1.00
Unadjusted	1500	0.04	0.52	0.72	0	1.00
Hypertension	1500	0.04	0.52	0.72	0	1.00
No. symptoms	1500	0.04	0.52	0.72	0	1.00
BMI	1500	0.04	0.52	0.72	0	1.00

Table 6: Results for the risk difference in a hospitalized population.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Supp. 02	100	0.1	0.28	0.62	0.00	0.91
LASS0, B	100	0.1	0.29	0.63	0.00	0.93
LASS0, A	100	0.1	0.29	0.64	0.00	0.94
LASS0, all	100	0.1	0.28	0.65	0.00	0.94
Age & supp. 02	100	0.1	0.28	0.65	0.00	0.94
X-ray bilat. infilt.	100	0.1	0.26	0.67	0.00	0.98
Dyspnea	100	0.1	0.26	0.68	0.00	0.99
Sex	100	0.1	0.26	0.68	0.00	1.00
Unadjusted	100	0.1	0.26	0.68	0.00	1.00
No. comorbid	100	0.1	0.27	0.69	0.00	1.00
No. symptoms	100	0.1	0.26	0.69	0.00	1.01
Hypertension	100	0.1	0.26	0.69	0.00	1.01
BMI	100	0.1	0.26	0.69	0.00	1.02
Age	100	0.1	0.26	0.70	0.00	1.02
Smoking status	100	0.1	0.27	0.71	0.00	1.04
Set B	100	0.1	0.27	0.72	0.00	1.05
Set A	100	0.1	0.24	0.72	0.01	1.05
All	100	0.1	0.21	0.74	0.00	1.08
LASS0, B	250	0.1	0.59	0.60	0.00	0.92
LASS0, A	250	0.1	0.59	0.60	0.00	0.93
LASS0, all	250	0.1	0.59	0.60	0.00	0.93
Supp. 02	250	0.1	0.57	0.60	0.00	0.93
Age & supp. 02	250	0.1	0.56	0.60	0.00	0.93
Set B	250	0.1	0.56	0.61	0.00	0.94
X-ray bilat. infilt.	250	0.1	0.55	0.63	0.00	0.98
Set A	250	0.1	0.54	0.63	0.00	0.99
Dyspnea	250	0.1	0.55	0.64	0.00	0.99
Age	250	0.1	0.54	0.64	0.00	1.00
Sex	250	0.1	0.54	0.64	0.00	1.00
No. symptoms	250	0.1	0.54	0.64	0.00	1.00
Unadjusted	250	0.1	0.54	0.64	0.00	1.00
No. comorbid	250	0.1	0.53	0.64	0.00	1.00
BMI	250	0.1	0.53	0.65	0.00	1.00
Hypertension	250	0.1	0.53	0.65	0.00	1.01
All	250	0.1	0.52	0.65	0.00	1.01
Smoking status	250	0.1	0.54	0.65	0.00	1.01
Supp. 02	500	0.1	0.84	0.59	0.00	0.93
LASS0, B	500	0.1	0.84	0.59	0.00	0.93
LASS0, A	500	0.1	0.84	0.59	0.00	0.93
LASS0, all	500	0.1	0.84	0.59	0.00	0.94
Age & supp. 02	500	0.1	0.83	0.59	0.00	0.94
Set B	500	0.1	0.83	0.59	0.00	0.94
Set A	500	0.1	0.82	0.60	0.00	0.95
All	500	0.1	0.82	0.60	0.00	0.95
X-ray bilat. infilt.	500	0.1	0.81	0.61	0.00	0.96
Dyspnea	500	0.1	0.81	0.63	0.00	0.99
No. symptoms	500	0.1	0.81	0.63	0.00	1.00
Sex	500	0.1	0.81	0.63	0.00	1.00
BMI	500	0.1	0.81	0.63	0.00	1.00
Unadjusted	500	0.1	0.81	0.63	0.00	1.00

Hypertension	500	0.1	0.81	0.63	0.00	1.00
No. comorbid	500	0.1	0.81	0.63	0.00	1.00
Age	500	0.1	0.80	0.64	0.00	1.00
Smoking status	500	0.1	0.81	0.64	0.00	1.00
LASSO, A	1500	0.1	1.00	0.55	0.00	0.89
LASSO, B	1500	0.1	1.00	0.55	0.00	0.89
LASSO, all	1500	0.1	1.00	0.55	0.00	0.89
Set A	1500	0.1	1.00	0.55	0.00	0.89
Set B	1500	0.1	1.00	0.55	0.00	0.90
All	1500	0.1	1.00	0.55	0.00	0.90
Age & supp. O2	1500	0.1	1.00	0.56	0.00	0.90
Supp. O2	1500	0.1	1.00	0.56	0.00	0.91
X-ray bilat. infilt.	1500	0.1	1.00	0.59	0.00	0.96
Sex	1500	0.1	1.00	0.61	0.00	0.99
Age	1500	0.1	1.00	0.61	0.00	0.99
Smoking status	1500	0.1	1.00	0.61	0.00	1.00
No. comorbid	1500	0.1	1.00	0.61	0.00	1.00
Dyspnea	1500	0.1	1.00	0.61	0.00	1.00
Unadjusted	1500	0.1	1.00	0.61	0.00	1.00
Hypertension	1500	0.1	1.00	0.61	0.00	1.00
No. symptoms	1500	0.1	1.00	0.62	0.00	1.00
BMI	1500	0.1	1.00	0.62	0.00	1.00

Table 7: Results for the difference in restricted mean survival time in a hospitalized population when covariates are not predictive of survival time.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Unadjusted	100	0	0.05	91.66	0.00	1.00
Hypertension	100	0	0.05	92.39	0.00	1.01
No. comorbid	100	0	0.05	92.43	0.00	1.01
Sex	100	0	0.06	92.81	0.00	1.01
Supp. 02	100	0	0.06	92.86	0.00	1.01
X-ray bilat. infilt.	100	0	0.05	92.99	0.00	1.01
No. symptoms	100	0	0.06	93.29	0.00	1.02
Dyspnea	100	0	0.06	93.34	0.00	1.02
Age	100	0	0.06	94.42	-0.01	1.03
LASSO, B	100	0	0.06	94.54	0.00	1.03
BMI	100	0	0.06	94.93	0.00	1.04
Smoking status	100	0	0.06	95.11	-0.01	1.04
LASSO, A	100	0	0.06	95.37	0.00	1.04
LASSO, all	100	0	0.06	95.37	0.00	1.04
Age & supp. 02	100	0	0.06	96.10	-0.01	1.05
Set B	100	0	0.07	108.13	-0.01	1.18
Set A	100	0	0.06	122.70	-0.01	1.34
All	100	0	0.06	128.91	-0.02	1.41
No. comorbid	250	0	0.05	87.04	0.02	1.00
BMI	250	0	0.04	87.12	0.02	1.00
Unadjusted	250	0	0.04	87.30	0.02	1.00
Sex	250	0	0.05	87.50	0.02	1.00
Dyspnea	250	0	0.04	87.57	0.02	1.00
No. symptoms	250	0	0.05	87.85	0.02	1.01
X-ray bilat. infilt.	250	0	0.04	87.89	0.03	1.01
Supp. 02	250	0	0.05	88.09	0.02	1.01
Smoking status	250	0	0.04	88.44	0.03	1.01
Age	250	0	0.05	88.51	0.02	1.01
LASSO, B	250	0	0.05	88.61	0.02	1.01
Hypertension	250	0	0.05	88.73	0.02	1.02
LASSO, A	250	0	0.06	88.74	0.02	1.02
Age & supp. 02	250	0	0.05	89.12	0.02	1.02
LASSO, all	250	0	0.06	89.24	0.02	1.02
Set B	250	0	0.05	92.62	0.02	1.06
Set A	250	0	0.04	98.61	0.02	1.13
All	250	0	0.04	104.31	0.02	1.19
Smoking status	500	0	0.05	91.26	-0.01	1.00
No. symptoms	500	0	0.05	91.36	-0.01	1.00
Unadjusted	500	0	0.05	91.39	-0.01	1.00
X-ray bilat. infilt.	500	0	0.05	91.48	-0.01	1.00
Sex	500	0	0.05	91.63	-0.01	1.00
No. comorbid	500	0	0.05	91.77	-0.01	1.00
BMI	500	0	0.05	91.78	-0.01	1.00
Supp. 02	500	0	0.05	91.97	-0.01	1.01
Dyspnea	500	0	0.04	92.06	-0.01	1.01
Age	500	0	0.05	92.11	-0.01	1.01
Hypertension	500	0	0.05	92.12	-0.01	1.01
LASSO, A	500	0	0.05	92.17	-0.01	1.01
Age & supp. 02	500	0	0.05	92.59	-0.01	1.01

LASSO, all	500	0	0.05	92.66	-0.01	1.01
LASSO, B	500	0	0.05	92.81	-0.01	1.02
Set A	500	0	0.05	93.74	-0.01	1.03
Set B	500	0	0.05	94.31	-0.01	1.03
All	500	0	0.05	95.25	-0.01	1.04
Dyspnea	1500	0	0.04	90.34	0.00	1.00
BMI	1500	0	0.04	90.36	0.00	1.00
Sex	1500	0	0.04	90.49	0.00	1.00
No. symptoms	1500	0	0.04	90.49	0.00	1.00
Smoking status	1500	0	0.04	90.50	0.00	1.00
No. comorbid	1500	0	0.04	90.54	0.00	1.00
Unadjusted	1500	0	0.04	90.61	0.00	1.00
Supp. O2	1500	0	0.04	90.63	0.00	1.00
Set A	1500	0	0.04	90.66	0.00	1.00
X-ray bilat. infilt.	1500	0	0.04	90.69	0.00	1.00
All	1500	0	0.04	90.76	0.00	1.00
LASSO, A	1500	0	0.05	90.87	0.00	1.00
Hypertension	1500	0	0.04	90.92	0.00	1.00
LASSO, all	1500	0	0.05	91.19	0.00	1.01
Age	1500	0	0.04	91.19	0.00	1.01
Age & supp. O2	1500	0	0.04	91.24	0.00	1.01
Set B	1500	0	0.04	91.41	0.00	1.01
LASSO, B	1500	0	0.05	91.65	0.00	1.01

Table 8: Results for the difference in restricted mean survival time in a hospitalized population when covariates are not predictive of survival time.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Unadjusted	100	0.55	0.09	80.07	0.00	1.00
No. comorbid	100	0.55	0.10	80.36	0.00	1.00
Hypertension	100	0.55	0.10	80.37	0.01	1.00
Sex	100	0.55	0.09	81.14	0.00	1.01
Supp. 02	100	0.55	0.09	81.32	0.00	1.02
No. symptoms	100	0.55	0.10	81.55	0.01	1.02
X-ray bilat. infilt.	100	0.55	0.10	81.55	0.00	1.02
Dyspnea	100	0.55	0.09	81.69	0.00	1.02
BMI	100	0.55	0.10	82.49	0.01	1.03
LASSO, B	100	0.55	0.11	82.78	0.00	1.03
Smoking status	100	0.55	0.09	82.93	-0.01	1.04
LASSO, all	100	0.55	0.12	83.05	0.01	1.04
LASSO, A	100	0.55	0.11	83.11	0.01	1.04
Age & supp. 02	100	0.55	0.10	87.07	0.01	1.09
Age	100	0.55	0.10	92.80	0.01	1.16
Set B	100	0.55	0.10	95.77	0.00	1.20
Set A	100	0.55	0.09	110.75	0.03	1.38
All	100	0.55	0.09	112.99	0.00	1.41
BMI	250	0.55	0.16	73.95	0.02	1.00
Unadjusted	250	0.55	0.15	74.21	0.02	1.00
No. comorbid	250	0.55	0.15	74.26	0.02	1.00
Sex	250	0.55	0.15	74.36	0.02	1.00
Dyspnea	250	0.55	0.16	74.52	0.02	1.00
X-ray bilat. infilt.	250	0.55	0.15	74.72	0.02	1.01
No. symptoms	250	0.55	0.15	74.77	0.02	1.01
Supp. 02	250	0.55	0.15	74.89	0.02	1.01
LASSO, A	250	0.55	0.16	75.09	0.02	1.01
Smoking status	250	0.55	0.16	75.26	0.02	1.01
LASSO, all	250	0.55	0.16	75.38	0.02	1.02
LASSO, B	250	0.55	0.16	75.51	0.02	1.02
Hypertension	250	0.55	0.15	75.53	0.02	1.02
Age	250	0.55	0.15	75.63	0.02	1.02
Age & supp. 02	250	0.55	0.15	76.82	0.02	1.04
Set B	250	0.55	0.15	78.76	0.02	1.06
Set A	250	0.55	0.14	79.83	0.02	1.08
All	250	0.55	0.14	87.26	0.01	1.18
No. symptoms	500	0.55	0.27	78.33	-0.01	1.00
Unadjusted	500	0.55	0.27	78.35	-0.01	1.00
Smoking status	500	0.55	0.27	78.35	-0.01	1.00
X-ray bilat. infilt.	500	0.55	0.27	78.35	-0.01	1.00
Sex	500	0.55	0.27	78.58	-0.01	1.00
BMI	500	0.55	0.28	78.59	-0.01	1.00
No. comorbid	500	0.55	0.27	78.65	-0.01	1.00
Supp. 02	500	0.55	0.27	78.76	-0.01	1.01
LASSO, A	500	0.55	0.27	78.97	-0.01	1.01
Dyspnea	500	0.55	0.27	79.05	-0.01	1.01
Hypertension	500	0.55	0.27	79.05	-0.01	1.01
Age	500	0.55	0.27	79.10	-0.01	1.01
Age & supp. 02	500	0.55	0.27	79.26	-0.01	1.01

LASSO, all	500	0.55	0.28	79.39	-0.01	1.01
LASSO, B	500	0.55	0.28	79.87	-0.01	1.02
Set A	500	0.55	0.27	80.26	-0.01	1.02
Set B	500	0.55	0.28	81.04	-0.01	1.03
All	500	0.55	0.28	81.91	-0.01	1.05
Set A	1500	0.55	0.67	76.78	0.00	1.00
All	1500	0.55	0.66	76.83	0.00	1.00
Dyspnea	1500	0.55	0.66	76.90	0.00	1.00
BMI	1500	0.55	0.66	76.92	0.00	1.00
No. symptoms	1500	0.55	0.66	77.04	0.00	1.00
Sex	1500	0.55	0.66	77.06	0.00	1.00
Smoking status	1500	0.55	0.66	77.07	0.00	1.00
No. comorbid	1500	0.55	0.66	77.13	0.00	1.00
Unadjusted	1500	0.55	0.66	77.16	0.00	1.00
LASSO, A	1500	0.55	0.66	77.17	0.00	1.00
X-ray bilat. infilt.	1500	0.55	0.66	77.18	0.00	1.00
LASSO, all	1500	0.55	0.67	77.24	0.00	1.00
Supp. O2	1500	0.55	0.66	77.27	0.00	1.00
Age	1500	0.55	0.66	77.31	0.00	1.00
Hypertension	1500	0.55	0.66	77.40	0.00	1.00
Age & supp. O2	1500	0.55	0.67	77.44	0.00	1.00
Set B	1500	0.55	0.67	77.49	0.00	1.00
LASSO, B	1500	0.55	0.67	77.76	0.00	1.01

Table 9: Results for the difference in restricted mean survival time in a hospitalized population when covariates are not predictive of survival time.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Unadjusted	100	1.07	0.23	69.59	0.00	1.00
Hypertension	100	1.07	0.24	70.06	0.01	1.01
No. comorbid	100	1.07	0.24	70.16	0.00	1.01
Supp. 02	100	1.07	0.23	70.42	0.00	1.01
Sex	100	1.07	0.24	70.48	0.00	1.01
No. symptoms	100	1.07	0.24	70.49	0.00	1.01
Dyspnea	100	1.07	0.24	70.51	0.00	1.01
X-ray bilat. infilt.	100	1.07	0.25	70.60	0.00	1.01
LASSO, B	100	1.07	0.25	71.20	0.01	1.02
BMI	100	1.07	0.24	72.07	0.01	1.04
Smoking status	100	1.07	0.24	72.32	-0.01	1.04
LASSO, A	100	1.07	0.26	72.34	0.01	1.04
LASSO, all	100	1.07	0.27	72.69	0.01	1.04
Age & supp. 02	100	1.07	0.25	73.13	0.00	1.05
Age	100	1.07	0.25	75.80	0.00	1.09
Set B	100	1.07	0.23	85.73	0.00	1.23
Set A	100	1.07	0.21	97.33	0.04	1.40
All	100	1.07	0.20	97.79	0.00	1.41
No. comorbid	250	1.07	0.53	66.61	0.02	1.00
Unadjusted	250	1.07	0.53	66.72	0.02	1.00
BMI	250	1.07	0.53	66.75	0.02	1.00
Sex	250	1.07	0.53	66.79	0.02	1.00
X-ray bilat. infilt.	250	1.07	0.53	66.87	0.02	1.00
Dyspnea	250	1.07	0.53	66.90	0.02	1.00
Supp. 02	250	1.07	0.53	67.12	0.02	1.01
No. symptoms	250	1.07	0.54	67.16	0.02	1.01
LASSO, A	250	1.07	0.54	67.43	0.01	1.01
Smoking status	250	1.07	0.53	67.64	0.02	1.01
Age	250	1.07	0.52	67.64	0.02	1.01
Hypertension	250	1.07	0.53	67.67	0.02	1.01
LASSO, B	250	1.07	0.53	67.74	0.02	1.02
LASSO, all	250	1.07	0.54	67.84	0.02	1.02
Age & supp. 02	250	1.07	0.53	67.92	0.02	1.02
Set B	250	1.07	0.53	69.90	0.02	1.05
Set A	250	1.07	0.49	72.33	0.02	1.08
All	250	1.07	0.47	76.02	0.03	1.14
X-ray bilat. infilt.	500	1.07	0.82	68.64	-0.01	1.00
No. symptoms	500	1.07	0.82	68.69	-0.01	1.00
Unadjusted	500	1.07	0.82	68.73	-0.01	1.00
Smoking status	500	1.07	0.83	68.80	-0.01	1.00
No. comorbid	500	1.07	0.83	68.91	-0.01	1.00
Sex	500	1.07	0.83	68.99	-0.01	1.00
BMI	500	1.07	0.82	69.10	-0.01	1.01
Supp. 02	500	1.07	0.82	69.11	-0.01	1.01
Age	500	1.07	0.82	69.12	-0.01	1.01
Hypertension	500	1.07	0.83	69.16	-0.01	1.01
Dyspnea	500	1.07	0.82	69.29	-0.01	1.01
LASSO, A	500	1.07	0.83	69.45	-0.01	1.01
Age & supp. 02	500	1.07	0.82	69.50	-0.01	1.01

LASSO, all	500	1.07	0.83	69.56	-0.01	1.01
LASSO, B	500	1.07	0.82	70.01	-0.01	1.02
Set A	500	1.07	0.81	70.40	-0.01	1.02
Set B	500	1.07	0.82	70.64	-0.01	1.03
All	500	1.07	0.81	71.02	-0.01	1.03
All	1500	1.07	1.00	67.77	0.00	0.99
Set A	1500	1.07	1.00	67.83	0.00	0.99
Dyspnea	1500	1.07	1.00	67.96	0.00	1.00
LASSO, A	1500	1.07	1.00	68.01	0.00	1.00
BMI	1500	1.07	1.00	68.06	0.00	1.00
LASSO, all	1500	1.07	1.00	68.08	0.00	1.00
No. symptoms	1500	1.07	1.00	68.15	0.00	1.00
Sex	1500	1.07	1.00	68.16	0.00	1.00
Smoking status	1500	1.07	1.00	68.21	0.00	1.00
No. comorbid	1500	1.07	1.00	68.28	0.00	1.00
Supp. O2	1500	1.07	1.00	68.29	0.00	1.00
Unadjusted	1500	1.07	1.00	68.30	0.00	1.00
X-ray bilat. infilt.	1500	1.07	1.00	68.38	0.00	1.00
Set B	1500	1.07	1.00	68.40	0.00	1.00
Age & supp. O2	1500	1.07	1.00	68.43	0.00	1.00
Age	1500	1.07	1.00	68.43	0.00	1.00
LASSO, B	1500	1.07	1.00	68.52	0.00	1.00
Hypertension	1500	1.07	1.00	68.55	0.00	1.00

Table 10: Results for the risk difference in a hospitalized population when covariates are not predictive of survival time.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Unadjusted	100	0	0.04	0.74	0	1.00
Sex	100	0	0.04	0.74	0	1.01
Hypertension	100	0	0.04	0.74	0	1.01
X-ray bilat. infilt.	100	0	0.04	0.75	0	1.01
No. comorbid	100	0	0.04	0.75	0	1.01
Supp. 02	100	0	0.04	0.75	0	1.01
No. symptoms	100	0	0.05	0.75	0	1.01
Dyspnea	100	0	0.04	0.75	0	1.02
BMI	100	0	0.05	0.76	0	1.03
Age	100	0	0.05	0.76	0	1.03
Smoking status	100	0	0.05	0.76	0	1.03
LASSO, B	100	0	0.05	0.76	0	1.04
LASSO, A	100	0	0.05	0.77	0	1.04
LASSO, all	100	0	0.06	0.77	0	1.05
Age & supp. 02	100	0	0.06	0.78	0	1.06
Set B	100	0	0.06	0.86	0	1.17
Set A	100	0	0.06	0.95	0	1.29
All	100	0	0.06	0.96	0	1.31
BMI	250	0	0.05	0.72	0	1.00
No. comorbid	250	0	0.05	0.72	0	1.00
Unadjusted	250	0	0.05	0.73	0	1.00
Dyspnea	250	0	0.05	0.73	0	1.00
Sex	250	0	0.05	0.73	0	1.00
No. symptoms	250	0	0.05	0.73	0	1.00
X-ray bilat. infilt.	250	0	0.05	0.73	0	1.01
Supp. 02	250	0	0.05	0.73	0	1.01
Age	250	0	0.05	0.74	0	1.01
LASSO, B	250	0	0.05	0.74	0	1.01
LASSO, A	250	0	0.05	0.74	0	1.02
Smoking status	250	0	0.05	0.74	0	1.02
Hypertension	250	0	0.05	0.74	0	1.02
LASSO, all	250	0	0.05	0.74	0	1.02
Age & supp. 02	250	0	0.05	0.74	0	1.02
Set B	250	0	0.05	0.77	0	1.06
Set A	250	0	0.06	0.80	0	1.11
All	250	0	0.05	0.83	0	1.15
Smoking status	500	0	0.05	0.75	0	1.00
Unadjusted	500	0	0.05	0.76	0	1.00
No. symptoms	500	0	0.05	0.76	0	1.00
X-ray bilat. infilt.	500	0	0.05	0.76	0	1.00
BMI	500	0	0.05	0.76	0	1.00
Sex	500	0	0.05	0.76	0	1.00
No. comorbid	500	0	0.05	0.76	0	1.01
Supp. 02	500	0	0.06	0.76	0	1.01
LASSO, A	500	0	0.06	0.76	0	1.01
Dyspnea	500	0	0.05	0.76	0	1.01
Age	500	0	0.05	0.76	0	1.01
Hypertension	500	0	0.05	0.76	0	1.01
LASSO, all	500	0	0.06	0.77	0	1.01

LASS0, B	500	0	0.05	0.77	0	1.02
Age & supp. 02	500	0	0.05	0.77	0	1.02
Set A	500	0	0.06	0.78	0	1.03
Set B	500	0	0.05	0.79	0	1.04
All	500	0	0.06	0.79	0	1.04
Set A	1500	0	0.05	0.73	0	0.99
All	1500	0	0.05	0.73	0	1.00
LASS0, A	1500	0	0.05	0.73	0	1.00
Dyspnea	1500	0	0.04	0.73	0	1.00
No. comorbid	1500	0	0.04	0.73	0	1.00
Sex	1500	0	0.05	0.73	0	1.00
No. symptoms	1500	0	0.04	0.73	0	1.00
Smoking status	1500	0	0.05	0.73	0	1.00
BMI	1500	0	0.04	0.73	0	1.00
Unadjusted	1500	0	0.05	0.73	0	1.00
LASS0, all	1500	0	0.05	0.74	0	1.00
Age	1500	0	0.05	0.74	0	1.00
Supp. 02	1500	0	0.05	0.74	0	1.00
X-ray bilat. infilt.	1500	0	0.05	0.74	0	1.00
Age & supp. 02	1500	0	0.05	0.74	0	1.00
Set B	1500	0	0.05	0.74	0	1.00
Hypertension	1500	0	0.05	0.74	0	1.00
LASS0, B	1500	0	0.05	0.74	0	1.00

Table 11: Results for the risk difference in a hospitalized population when covariates are not predictive of survival time.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Unadjusted	100	0.04	0.09	0.70	0	1.00
Hypertension	100	0.04	0.09	0.70	0	1.00
No. comorbid	100	0.04	0.09	0.70	0	1.00
Sex	100	0.04	0.09	0.70	0	1.01
X-ray bilat. infilt.	100	0.04	0.09	0.71	0	1.01
No. symptoms	100	0.04	0.09	0.71	0	1.02
Supp. O ₂	100	0.04	0.09	0.71	0	1.02
Dyspnea	100	0.04	0.09	0.71	0	1.02
BMI	100	0.04	0.09	0.72	0	1.03
Age	100	0.04	0.09	0.72	0	1.03
Smoking status	100	0.04	0.09	0.72	0	1.04
LASSO, B	100	0.04	0.10	0.73	0	1.04
LASSO, A	100	0.04	0.10	0.73	0	1.04
LASSO, all	100	0.04	0.10	0.73	0	1.05
Age & supp. O ₂	100	0.04	0.09	0.75	0	1.07
Set B	100	0.04	0.10	0.82	0	1.18
Set A	100	0.04	0.10	0.92	0	1.31
All	100	0.04	0.09	0.93	0	1.34
BMI	250	0.04	0.13	0.66	0	1.00
No. comorbid	250	0.04	0.12	0.66	0	1.00
Unadjusted	250	0.04	0.13	0.66	0	1.00
Sex	250	0.04	0.13	0.66	0	1.00
Dyspnea	250	0.04	0.13	0.66	0	1.00
No. symptoms	250	0.04	0.13	0.66	0	1.01
X-ray bilat. infilt.	250	0.04	0.13	0.66	0	1.01
Age	250	0.04	0.12	0.66	0	1.01
LASSO, A	250	0.04	0.14	0.66	0	1.01
Supp. O ₂	250	0.04	0.13	0.66	0	1.01
Smoking status	250	0.04	0.13	0.67	0	1.02
LASSO, all	250	0.04	0.13	0.67	0	1.02
LASSO, B	250	0.04	0.13	0.67	0	1.02
Hypertension	250	0.04	0.13	0.67	0	1.02
Age & supp. O ₂	250	0.04	0.12	0.68	0	1.04
Set B	250	0.04	0.13	0.70	0	1.07
Set A	250	0.04	0.12	0.72	0	1.10
All	250	0.04	0.12	0.75	0	1.15
Unadjusted	500	0.04	0.21	0.69	0	1.00
No. symptoms	500	0.04	0.21	0.69	0	1.00
X-ray bilat. infilt.	500	0.04	0.21	0.69	0	1.00
Smoking status	500	0.04	0.21	0.69	0	1.00
BMI	500	0.04	0.21	0.69	0	1.00
Sex	500	0.04	0.21	0.69	0	1.01
No. comorbid	500	0.04	0.21	0.69	0	1.01
Supp. O ₂	500	0.04	0.21	0.69	0	1.01
Dyspnea	500	0.04	0.21	0.69	0	1.01
Hypertension	500	0.04	0.21	0.69	0	1.01
LASSO, A	500	0.04	0.21	0.69	0	1.01
Age	500	0.04	0.21	0.70	0	1.01
LASSO, all	500	0.04	0.21	0.70	0	1.01

LASS0, B	500	0.04	0.21	0.70	0	1.02
Age & supp. 02	500	0.04	0.21	0.70	0	1.02
Set A	500	0.04	0.22	0.71	0	1.03
Set B	500	0.04	0.21	0.72	0	1.04
All	500	0.04	0.21	0.73	0	1.06
Set A	1500	0.04	0.54	0.68	0	1.00
LASS0, A	1500	0.04	0.55	0.68	0	1.00
Dyspnea	1500	0.04	0.54	0.68	0	1.00
No. symptoms	1500	0.04	0.55	0.68	0	1.00
LASS0, all	1500	0.04	0.54	0.68	0	1.00
BMI	1500	0.04	0.55	0.68	0	1.00
No. comorbid	1500	0.04	0.54	0.68	0	1.00
Sex	1500	0.04	0.54	0.68	0	1.00
All	1500	0.04	0.54	0.68	0	1.00
X-ray bilat. infilt.	1500	0.04	0.55	0.68	0	1.00
Smoking status	1500	0.04	0.54	0.68	0	1.00
Unadjusted	1500	0.04	0.54	0.68	0	1.00
Supp. 02	1500	0.04	0.54	0.68	0	1.00
Age	1500	0.04	0.54	0.69	0	1.00
Hypertension	1500	0.04	0.54	0.69	0	1.00
Age & supp. 02	1500	0.04	0.54	0.69	0	1.00
LASS0, B	1500	0.04	0.55	0.69	0	1.00
Set B	1500	0.04	0.54	0.69	0	1.01

Table 12: Results for the risk difference in a hospitalized population when covariates are not predictive of survival time.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Unadjusted	100	0.1	0.25	0.64	0	1.00
Hypertension	100	0.1	0.25	0.64	0	1.01
No. comorbid	100	0.1	0.25	0.64	0	1.01
Sex	100	0.1	0.25	0.64	0	1.01
X-ray bilat. infilt.	100	0.1	0.25	0.65	0	1.01
No. symptoms	100	0.1	0.24	0.65	0	1.01
Supp. 02	100	0.1	0.25	0.65	0	1.02
Dyspnea	100	0.1	0.25	0.65	0	1.02
BMI	100	0.1	0.25	0.65	0	1.03
LASSO, B	100	0.1	0.26	0.66	0	1.03
Smoking status	100	0.1	0.25	0.66	0	1.04
LASSO, A	100	0.1	0.27	0.66	0	1.04
LASSO, all	100	0.1	0.27	0.67	0	1.05
Age & supp. 02	100	0.1	0.25	0.67	0	1.05
Age	100	0.1	0.25	0.68	0	1.06
Set B	100	0.1	0.25	0.76	0	1.20
All	100	0.1	0.20	0.83	0	1.31
Set A	100	0.1	0.22	0.83	0	1.31
No. comorbid	250	0.1	0.51	0.60	0	1.00
Unadjusted	250	0.1	0.51	0.60	0	1.00
Sex	250	0.1	0.51	0.60	0	1.00
Dyspnea	250	0.1	0.51	0.60	0	1.00
X-ray bilat. infilt.	250	0.1	0.51	0.60	0	1.00
No. symptoms	250	0.1	0.51	0.60	0	1.00
BMI	250	0.1	0.51	0.60	0	1.01
Supp. 02	250	0.1	0.51	0.60	0	1.01
LASSO, A	250	0.1	0.51	0.60	0	1.01
LASSO, all	250	0.1	0.52	0.61	0	1.01
LASSO, B	250	0.1	0.51	0.61	0	1.01
Age	250	0.1	0.50	0.61	0	1.02
Smoking status	250	0.1	0.50	0.61	0	1.02
Hypertension	250	0.1	0.50	0.61	0	1.02
Age & supp. 02	250	0.1	0.49	0.61	0	1.02
Set B	250	0.1	0.49	0.62	0	1.04
Set A	250	0.1	0.47	0.65	0	1.09
All	250	0.1	0.43	0.68	0	1.14
X-ray bilat. infilt.	500	0.1	0.79	0.62	0	1.00
Smoking status	500	0.1	0.79	0.62	0	1.00
No. symptoms	500	0.1	0.79	0.62	0	1.00
Unadjusted	500	0.1	0.79	0.63	0	1.00
No. comorbid	500	0.1	0.79	0.63	0	1.00
BMI	500	0.1	0.79	0.63	0	1.00
Sex	500	0.1	0.79	0.63	0	1.01
LASSO, A	500	0.1	0.79	0.63	0	1.01
Supp. 02	500	0.1	0.79	0.63	0	1.01
Hypertension	500	0.1	0.79	0.63	0	1.01
LASSO, all	500	0.1	0.79	0.63	0	1.01
Dyspnea	500	0.1	0.79	0.63	0	1.01
Age	500	0.1	0.77	0.63	0	1.01

Set A	500	0.1	0.79	0.64	0	1.02
LASSO, B	500	0.1	0.80	0.64	0	1.02
Age & supp. 02	500	0.1	0.77	0.64	0	1.02
All	500	0.1	0.78	0.64	0	1.02
Set B	500	0.1	0.78	0.65	0	1.03
Dyspnea	1500	0.1	1.00	0.62	0	1.00
BMI	1500	0.1	1.00	0.62	0	1.00
LASSO, A	1500	0.1	0.99	0.62	0	1.00
Smoking status	1500	0.1	1.00	0.62	0	1.00
No. symptoms	1500	0.1	1.00	0.62	0	1.00
Supp. 02	1500	0.1	1.00	0.62	0	1.00
LASSO, all	1500	0.1	0.99	0.62	0	1.00
Unadjusted	1500	0.1	1.00	0.62	0	1.00
Sex	1500	0.1	1.00	0.62	0	1.00
No. comorbid	1500	0.1	1.00	0.62	0	1.00
X-ray bilat. infilt.	1500	0.1	1.00	0.62	0	1.00
Hypertension	1500	0.1	1.00	0.62	0	1.00
Set A	1500	0.1	0.99	0.62	0	1.00
All	1500	0.1	0.99	0.62	0	1.00
LASSO, B	1500	0.1	0.99	0.62	0	1.01
Age & supp. 02	1500	0.1	0.99	0.62	0	1.01
Age	1500	0.1	0.99	0.62	0	1.01
Set B	1500	0.1	0.99	0.63	0	1.01

Table 13: Results for the log odds ratio in a hospitalized population.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
LASSO, A	100	0	0.08	19.14	-0.01	0.54
LASSO, all	100	0	0.09	20.19	-0.01	0.57
LASSO, B	100	0	0.08	20.32	0.00	0.58
Set A	100	0	0.08	29.72	-0.01	0.84
Age & supp. 02	100	0	0.05	32.38	-0.01	0.92
Age	100	0	0.06	34.91	-0.01	0.99
Unadjusted	100	0	0.06	35.23	-0.01	1.00
Supp. 02	100	0	0.05	36.14	-0.01	1.03
Dyspnea	100	0	0.06	37.54	-0.01	1.07
Sex	100	0	0.06	37.81	-0.01	1.07
X-ray bilat. infilt.	100	0	0.06	37.95	-0.01	1.08
Hypertension	100	0	0.06	38.27	-0.01	1.09
No. symptoms	100	0	0.06	38.57	-0.01	1.09
No. comorbid	100	0	0.06	38.61	-0.01	1.10
Smoking status	100	0	0.06	39.16	-0.01	1.11
BMI	100	0	0.06	39.29	-0.01	1.12
Set B	100	0	0.07	40.68	0.00	1.15
All	100	0	0.11	42.21	0.01	1.20
Set A	250	0	0.07	14.22	0.00	0.79
LASSO, A	250	0	0.08	14.26	0.00	0.79
LASSO, all	250	0	0.08	14.29	0.00	0.79
Age & supp. 02	250	0	0.06	14.32	0.00	0.79
LASSO, B	250	0	0.08	14.40	0.00	0.80
Set B	250	0	0.06	14.46	0.00	0.80
All	250	0	0.07	14.51	0.00	0.81
Age	250	0	0.06	16.01	0.00	0.89
Supp. 02	250	0	0.06	16.19	0.00	0.90
No. symptoms	250	0	0.06	17.64	0.00	0.98
No. comorbid	250	0	0.06	17.69	0.00	0.98
Hypertension	250	0	0.06	17.73	0.00	0.98
X-ray bilat. infilt.	250	0	0.06	17.82	0.00	0.99
BMI	250	0	0.06	17.88	0.00	0.99
Sex	250	0	0.06	17.91	0.00	0.99
Smoking status	250	0	0.06	17.91	0.00	0.99
Unadjusted	250	0	0.06	18.02	0.00	1.00
Dyspnea	250	0	0.06	18.15	0.00	1.01
LASSO, A	500	0	0.06	13.20	0.00	0.83
LASSO, all	500	0	0.06	13.22	0.00	0.84
Set A	500	0	0.05	13.23	0.01	0.84
Age & supp. 02	500	0	0.05	13.34	0.00	0.84
All	500	0	0.06	13.37	0.01	0.84
Set B	500	0	0.05	13.39	0.00	0.85
LASSO, B	500	0	0.05	13.43	0.00	0.85
Supp. 02	500	0	0.04	14.42	0.00	0.91
Age	500	0	0.04	14.52	0.01	0.92
X-ray bilat. infilt.	500	0	0.04	15.46	0.00	0.98
No. symptoms	500	0	0.03	15.61	0.00	0.99
No. comorbid	500	0	0.03	15.63	0.00	0.99
Hypertension	500	0	0.04	15.74	0.00	0.99
Dyspnea	500	0	0.04	15.81	0.00	1.00

Smoking status	500	0	0.04	15.81	0.00	1.00
Unadjusted	500	0	0.04	15.83	0.00	1.00
Sex	500	0	0.04	15.87	0.00	1.00
BMI	500	0	0.04	15.91	0.00	1.00
LASSO, A	1500	0	0.05	12.20	0.00	0.78
LASSO, all	1500	0	0.05	12.21	0.00	0.78
All	1500	0	0.04	12.21	0.00	0.78
Set A	1500	0	0.05	12.21	0.00	0.78
LASSO, B	1500	0	0.05	12.45	0.00	0.79
Set B	1500	0	0.05	12.45	0.00	0.79
Age & supp. 02	1500	0	0.05	12.47	0.00	0.79
Age	1500	0	0.04	13.99	0.00	0.89
Supp. 02	1500	0	0.04	14.05	0.00	0.89
X-ray bilat. infilt.	1500	0	0.04	15.27	0.00	0.97
No. symptoms	1500	0	0.04	15.42	0.01	0.98
No. comorbid	1500	0	0.04	15.66	0.00	1.00
Smoking status	1500	0	0.05	15.68	0.01	1.00
Dyspnea	1500	0	0.04	15.68	0.01	1.00
Hypertension	1500	0	0.05	15.69	0.00	1.00
Unadjusted	1500	0	0.04	15.73	0.00	1.00
Sex	1500	0	0.04	15.80	0.01	1.00
BMI	1500	0	0.04	15.82	0.00	1.01

Table 14: Results for the log odds ratio in a hospitalized population.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
LASSO, A	100	0.22	0.14	26.22	0.02	0.23
LASSO, all	100	0.22	0.16	27.68	0.02	0.24
LASSO, B	100	0.22	0.16	36.09	0.05	0.32
Set A	100	0.22	0.15	83.55	0.13	0.73
Set B	100	0.22	0.13	90.96	0.14	0.79
All	100	0.22	0.17	95.98	0.15	0.84
Age & supp. 02	100	0.22	0.12	102.00	0.15	0.89
Age	100	0.22	0.12	105.72	0.15	0.92
Supp. 02	100	0.22	0.12	111.67	0.16	0.98
Unadjusted	100	0.22	0.10	114.45	0.17	1.00
X-ray bilat. infilt.	100	0.22	0.11	114.83	0.16	1.00
Hypertension	100	0.22	0.10	115.11	0.16	1.01
Smoking status	100	0.22	0.11	115.27	0.17	1.01
No. comorbid	100	0.22	0.11	115.83	0.16	1.01
No. symptoms	100	0.22	0.10	115.88	0.16	1.01
BMI	100	0.22	0.10	117.08	0.17	1.02
Dyspnea	100	0.22	0.10	117.28	0.16	1.02
Sex	100	0.22	0.10	117.52	0.16	1.03
Age & supp. 02	250	0.22	0.15	15.21	0.01	0.80
Set A	250	0.22	0.15	15.36	0.01	0.81
Set B	250	0.22	0.15	15.39	0.00	0.81
LASSO, B	250	0.22	0.16	15.42	0.00	0.81
LASSO, all	250	0.22	0.18	15.42	0.00	0.82
LASSO, A	250	0.22	0.17	15.46	0.00	0.82
All	250	0.22	0.15	15.53	0.01	0.82
Age	250	0.22	0.15	16.89	0.01	0.89
Supp. 02	250	0.22	0.14	17.17	0.01	0.91
No. symptoms	250	0.22	0.13	18.57	0.01	0.98
No. comorbid	250	0.22	0.13	18.60	0.01	0.98
Hypertension	250	0.22	0.13	18.63	0.01	0.98
BMI	250	0.22	0.13	18.73	0.01	0.99
X-ray bilat. infilt.	250	0.22	0.14	18.79	0.01	0.99
Sex	250	0.22	0.13	18.80	0.01	0.99
Smoking status	250	0.22	0.14	18.84	0.01	1.00
Unadjusted	250	0.22	0.14	18.92	0.01	1.00
Dyspnea	250	0.22	0.14	19.03	0.01	1.01
LASSO, A	500	0.22	0.28	14.09	0.01	0.85
LASSO, all	500	0.22	0.28	14.12	0.01	0.85
Set A	500	0.22	0.27	14.22	0.01	0.86
Age & supp. 02	500	0.22	0.26	14.26	0.01	0.86
LASSO, B	500	0.22	0.27	14.28	0.01	0.86
All	500	0.22	0.27	14.35	0.01	0.86
Set B	500	0.22	0.27	14.36	0.01	0.87
Supp. 02	500	0.22	0.23	15.28	0.01	0.92
Age	500	0.22	0.24	15.36	0.01	0.93
X-ray bilat. infilt.	500	0.22	0.23	16.29	0.01	0.98
No. comorbid	500	0.22	0.22	16.40	0.01	0.99
No. symptoms	500	0.22	0.23	16.40	0.01	0.99
Hypertension	500	0.22	0.22	16.52	0.01	1.00
Smoking status	500	0.22	0.22	16.59	0.01	1.00

Unadjusted	500	0.22	0.22	16.60	0.01	1.00
BMI	500	0.22	0.23	16.62	0.01	1.00
Dyspnea	500	0.22	0.22	16.62	0.01	1.00
Sex	500	0.22	0.22	16.65	0.01	1.00
LASSO, A	1500	0.22	0.65	12.97	0.00	0.79
LASSO, all	1500	0.22	0.64	13.00	0.00	0.79
Set A	1500	0.22	0.65	13.03	0.00	0.79
All	1500	0.22	0.64	13.08	0.00	0.80
LASSO, B	1500	0.22	0.63	13.23	0.00	0.80
Age & supp. 02	1500	0.22	0.63	13.28	0.00	0.81
Set B	1500	0.22	0.63	13.28	0.00	0.81
Age	1500	0.22	0.59	14.73	0.00	0.90
Supp. 02	1500	0.22	0.59	14.88	0.00	0.90
X-ray bilat. infilt.	1500	0.22	0.54	16.06	0.00	0.98
No. symptoms	1500	0.22	0.55	16.10	0.01	0.98
No. comorbid	1500	0.22	0.55	16.37	0.00	1.00
Smoking status	1500	0.22	0.54	16.37	0.01	1.00
Dyspnea	1500	0.22	0.54	16.40	0.00	1.00
Hypertension	1500	0.22	0.54	16.41	0.00	1.00
Unadjusted	1500	0.22	0.54	16.44	0.00	1.00
Sex	1500	0.22	0.55	16.50	0.01	1.00
BMI	1500	0.22	0.54	16.53	0.00	1.01

Table 15: Results for the log odds ratio in a hospitalized population.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
LASSO, all	100	0.6	0.48	60.00	0.18	0.10
LASSO, A	100	0.6	0.48	66.97	0.19	0.11
LASSO, B	100	0.6	0.48	104.69	0.31	0.17
Set A	100	0.6	0.46	409.33	0.88	0.67
Set B	100	0.6	0.45	449.47	0.94	0.73
All	100	0.6	0.47	464.99	0.95	0.76
Age & supp. 02	100	0.6	0.44	543.20	1.14	0.89
Age	100	0.6	0.43	556.61	1.16	0.91
X-ray bilat. infilt.	100	0.6	0.43	584.75	1.19	0.95
No. symptoms	100	0.6	0.43	590.57	1.21	0.96
Smoking status	100	0.6	0.44	591.79	1.21	0.96
BMI	100	0.6	0.43	594.34	1.20	0.97
Supp. 02	100	0.6	0.43	595.81	1.21	0.97
No. comorbid	100	0.6	0.42	596.22	1.21	0.97
Sex	100	0.6	0.43	603.52	1.23	0.98
Dyspnea	100	0.6	0.42	607.04	1.23	0.99
Hypertension	100	0.6	0.43	609.18	1.23	0.99
Unadjusted	100	0.6	0.42	613.68	1.25	1.00
LASSO, all	250	0.6	0.71	38.66	0.06	0.13
LASSO, A	250	0.6	0.70	41.80	0.06	0.15
LASSO, B	250	0.6	0.69	55.75	0.08	0.19
All	250	0.6	0.63	211.27	0.20	0.74
Set A	250	0.6	0.63	213.58	0.21	0.74
Set B	250	0.6	0.62	251.96	0.23	0.88
Smoking status	250	0.6	0.60	258.53	0.24	0.90
Age & supp. 02	250	0.6	0.62	271.44	0.25	0.94
Age	250	0.6	0.59	272.85	0.25	0.95
No. comorbid	250	0.6	0.59	284.59	0.25	0.99
Supp. 02	250	0.6	0.62	285.74	0.25	0.99
No. symptoms	250	0.6	0.60	286.90	0.26	1.00
BMI	250	0.6	0.59	287.01	0.25	1.00
Hypertension	250	0.6	0.59	287.04	0.25	1.00
Sex	250	0.6	0.58	287.32	0.25	1.00
Unadjusted	250	0.6	0.59	287.38	0.25	1.00
X-ray bilat. infilt.	250	0.6	0.59	287.51	0.26	1.00
Dyspnea	250	0.6	0.59	287.76	0.25	1.00
LASSO, A	500	0.6	0.93	20.55	0.02	0.34
LASSO, all	500	0.6	0.93	20.96	0.02	0.35
LASSO, B	500	0.6	0.92	22.37	0.03	0.37
Age & supp. 02	500	0.6	0.92	57.38	0.04	0.95
All	500	0.6	0.92	57.43	0.05	0.95
Set B	500	0.6	0.91	57.50	0.04	0.95
Set A	500	0.6	0.92	57.61	0.05	0.95
Supp. 02	500	0.6	0.90	58.51	0.04	0.97
Age	500	0.6	0.89	58.68	0.04	0.97
No. symptoms	500	0.6	0.88	60.10	0.04	0.99
X-ray bilat. infilt.	500	0.6	0.88	60.13	0.04	0.99
No. comorbid	500	0.6	0.87	60.37	0.04	1.00
Hypertension	500	0.6	0.87	60.43	0.04	1.00
Unadjusted	500	0.6	0.87	60.45	0.04	1.00

Dyspnea	500	0.6	0.87	60.45	0.04	1.00
BMI	500	0.6	0.87	60.46	0.04	1.00
Sex	500	0.6	0.87	60.50	0.04	1.00
Smoking status	500	0.6	0.88	60.55	0.04	1.00
LASSO, all	1500	0.6	1.00	16.49	0.01	0.81
LASSO, A	1500	0.6	1.00	16.54	0.01	0.81
All	1500	0.6	1.00	16.71	0.01	0.82
Set A	1500	0.6	1.00	16.72	0.01	0.82
LASSO, B	1500	0.6	1.00	16.83	0.01	0.83
Age & supp. 02	1500	0.6	1.00	16.88	0.01	0.83
Set B	1500	0.6	1.00	16.97	0.01	0.83
Supp. 02	1500	0.6	1.00	18.41	0.01	0.90
Age	1500	0.6	1.00	18.68	0.01	0.92
X-ray bilat. infilt.	1500	0.6	1.00	19.92	0.01	0.98
No. symptoms	1500	0.6	1.00	19.99	0.01	0.98
Dyspnea	1500	0.6	1.00	20.29	0.01	1.00
Smoking status	1500	0.6	1.00	20.34	0.01	1.00
Unadjusted	1500	0.6	1.00	20.35	0.01	1.00
No. comorbid	1500	0.6	1.00	20.38	0.01	1.00
Hypertension	1500	0.6	1.00	20.42	0.01	1.00
Sex	1500	0.6	1.00	20.43	0.01	1.00
BMI	1500	0.6	1.00	20.46	0.01	1.01

Table 16: Results for the Mann-Whitney statistic in a hospitalized population.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
LASSO, A	100	0.5	0.08	0.23	0.00	0.84
LASSO, all	100	0.5	0.09	0.23	0.00	0.84
LASSO, B	100	0.5	0.08	0.23	0.00	0.87
Unadjusted	100	0.5	0.06	0.27	0.00	1.00
BMI	100	0.5	0.07	0.32	0.00	1.18
No. comorbid	100	0.5	0.09	0.36	0.00	1.34
Age	100	0.5	0.09	0.36	0.00	1.34
No. symptoms	100	0.5	0.11	0.45	0.00	1.69
X-ray bilat. infilt.	100	0.5	0.22	0.89	0.00	3.29
Age & supp. 02	100	0.5	0.22	0.91	-0.01	3.37
Supp. 02	100	0.5	0.23	0.97	0.00	3.62
Hypertension	100	0.5	0.24	1.14	0.00	4.23
Sex	100	0.5	0.26	1.18	0.00	4.39
Dyspnea	100	0.5	0.28	1.20	0.00	4.47
Smoking status	100	0.5	0.35	1.54	0.00	5.72
Set B	100	0.5	0.39	1.73	-0.01	6.45
Set A	100	0.5	0.38	1.95	0.00	7.26
All	100	0.5	0.42	2.34	0.00	8.71
LASSO, A	250	0.5	0.08	0.22	0.00	0.79
LASSO, all	250	0.5	0.08	0.22	0.00	0.79
LASSO, B	250	0.5	0.08	0.23	0.00	0.81
Age	250	0.5	0.06	0.26	0.00	0.91
No. symptoms	250	0.5	0.06	0.27	0.00	0.98
No. comorbid	250	0.5	0.06	0.27	0.00	0.98
BMI	250	0.5	0.06	0.28	0.00	1.00
Unadjusted	250	0.5	0.06	0.28	0.00	1.00
X-ray bilat. infilt.	250	0.5	0.08	0.37	0.00	1.31
Age & supp. 02	250	0.5	0.09	0.48	0.00	1.70
Hypertension	250	0.5	0.09	0.59	0.00	2.09
Supp. 02	250	0.5	0.10	0.63	0.00	2.26
Dyspnea	250	0.5	0.10	0.68	0.00	2.44
Sex	250	0.5	0.12	0.80	0.00	2.85
Smoking status	250	0.5	0.14	1.02	0.00	3.65
Set B	250	0.5	0.19	1.49	0.00	5.32
Set A	250	0.5	0.20	1.69	0.00	6.02
All	250	0.5	0.23	2.02	0.00	7.23
LASSO, all	500	0.5	0.06	0.21	0.00	0.83
LASSO, A	500	0.5	0.06	0.21	0.00	0.83
LASSO, B	500	0.5	0.06	0.21	0.00	0.85
Age	500	0.5	0.04	0.23	0.00	0.94
No. symptoms	500	0.5	0.04	0.25	0.00	0.99
No. comorbid	500	0.5	0.04	0.25	0.00	0.99
Unadjusted	500	0.5	0.04	0.25	0.00	1.00
BMI	500	0.5	0.04	0.25	0.00	1.00
X-ray bilat. infilt.	500	0.5	0.04	0.26	0.00	1.04
Supp. 02	500	0.5	0.05	0.26	0.00	1.06
Hypertension	500	0.5	0.04	0.27	0.00	1.08
Sex	500	0.5	0.04	0.27	0.00	1.10
Set B	500	0.5	0.06	0.28	0.00	1.10
Dyspnea	500	0.5	0.04	0.29	0.00	1.16

Age & supp. 02	500	0.5	0.06	0.31	0.00	1.23
All	500	0.5	0.07	0.52	0.00	2.08
Smoking status	500	0.5	0.05	0.53	0.00	2.12
Set A	500	0.5	0.07	0.53	0.00	2.13
LASSO, A	1500	0.5	0.04	0.20	0.00	0.80
LASSO, all	1500	0.5	0.05	0.20	0.00	0.80
Set A	1500	0.5	0.05	0.20	0.00	0.80
All	1500	0.5	0.05	0.20	0.00	0.80
LASSO, B	1500	0.5	0.05	0.20	0.00	0.81
Set B	1500	0.5	0.05	0.20	0.00	0.81
Age & supp. 02	1500	0.5	0.04	0.20	0.00	0.81
Supp. 02	1500	0.5	0.04	0.22	0.00	0.88
Age	1500	0.5	0.05	0.23	0.00	0.91
X-ray bilat. infilt.	1500	0.5	0.04	0.24	0.00	0.97
No. symptoms	1500	0.5	0.05	0.25	0.00	0.99
Dyspnea	1500	0.5	0.05	0.25	0.00	1.00
No. comorbid	1500	0.5	0.04	0.25	0.00	1.00
Smoking status	1500	0.5	0.05	0.25	0.00	1.00
Hypertension	1500	0.5	0.04	0.25	0.00	1.00
Unadjusted	1500	0.5	0.05	0.25	0.00	1.00
Sex	1500	0.5	0.04	0.25	0.00	1.00
BMI	1500	0.5	0.05	0.25	0.00	1.01

Table 17: Results for the Mann-Whitney statistic in a hospitalized population.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
LASSO, A	100	0.49	0.09	0.23	-0.01	0.83
LASSO, all	100	0.49	0.10	0.23	-0.01	0.84
LASSO, B	100	0.49	0.09	0.24	-0.01	0.87
Unadjusted	100	0.49	0.07	0.27	-0.01	1.00
BMI	100	0.49	0.07	0.29	-0.01	1.07
No. comorbid	100	0.49	0.08	0.33	-0.01	1.20
Age	100	0.49	0.09	0.34	-0.01	1.23
No. symptoms	100	0.49	0.09	0.35	-0.01	1.28
Age & supp. 02	100	0.49	0.22	0.79	-0.01	2.91
X-ray bilat. infilt.	100	0.49	0.22	0.88	-0.01	3.24
Hypertension	100	0.49	0.21	0.90	-0.01	3.32
Supp. 02	100	0.49	0.23	0.90	-0.01	3.33
Sex	100	0.49	0.23	0.98	0.00	3.60
Dyspnea	100	0.49	0.24	1.06	-0.01	3.90
Smoking status	100	0.49	0.33	1.42	-0.01	5.24
Set B	100	0.49	0.37	1.67	0.00	6.15
Set A	100	0.49	0.41	1.99	0.00	7.31
All	100	0.49	0.44	2.40	0.00	8.82
LASSO, all	250	0.49	0.11	0.23	-0.01	0.81
LASSO, A	250	0.49	0.11	0.23	-0.01	0.81
LASSO, B	250	0.49	0.10	0.23	-0.01	0.82
Age	250	0.49	0.10	0.26	-0.01	0.92
No. comorbid	250	0.49	0.10	0.28	-0.01	0.98
No. symptoms	250	0.49	0.10	0.28	-0.01	0.98
BMI	250	0.49	0.10	0.28	-0.01	1.00
Unadjusted	250	0.49	0.10	0.28	-0.01	1.00
Age & supp. 02	250	0.49	0.10	0.29	-0.01	1.01
Hypertension	250	0.49	0.10	0.30	-0.01	1.06
Supp. 02	250	0.49	0.12	0.38	-0.01	1.33
Sex	250	0.49	0.10	0.40	-0.01	1.41
X-ray bilat. infilt.	250	0.49	0.12	0.40	-0.01	1.42
Dyspnea	250	0.49	0.12	0.53	-0.01	1.88
Set B	250	0.49	0.13	0.61	-0.01	2.15
Smoking status	250	0.49	0.14	0.79	-0.01	2.79
Set A	250	0.49	0.15	0.86	-0.01	3.05
All	250	0.49	0.17	1.09	0.00	3.85
LASSO, all	500	0.49	0.14	0.23	-0.01	0.85
LASSO, A	500	0.49	0.14	0.23	-0.01	0.85
LASSO, B	500	0.49	0.15	0.23	-0.01	0.86
Age & supp. 02	500	0.49	0.13	0.23	-0.01	0.87
Supp. 02	500	0.49	0.13	0.24	-0.01	0.90
All	500	0.49	0.14	0.26	-0.01	0.95
Age	500	0.49	0.12	0.26	-0.01	0.95
Set B	500	0.49	0.14	0.26	-0.01	0.96
No. symptoms	500	0.49	0.12	0.27	-0.01	0.99
Hypertension	500	0.49	0.13	0.27	-0.01	1.00
No. comorbid	500	0.49	0.13	0.27	-0.01	1.00
Unadjusted	500	0.49	0.13	0.27	-0.01	1.00
Dyspnea	500	0.49	0.13	0.27	-0.01	1.00
BMI	500	0.49	0.12	0.27	-0.01	1.00

Sex	500	0.49	0.13	0.27	-0.01	1.00
X-ray bilat. infilt.	500	0.49	0.13	0.28	-0.01	1.05
Set A	500	0.49	0.15	0.30	-0.01	1.12
Smoking status	500	0.49	0.13	0.33	-0.01	1.21
LASSO, A	1500	0.49	0.36	0.28	-0.01	0.85
LASSO, all	1500	0.49	0.36	0.28	-0.01	0.85
Set A	1500	0.49	0.36	0.28	-0.01	0.85
All	1500	0.49	0.35	0.28	-0.01	0.86
LASSO, B	1500	0.49	0.34	0.28	-0.01	0.86
Set B	1500	0.49	0.34	0.28	-0.01	0.86
Age & supp. 02	1500	0.49	0.34	0.28	-0.01	0.86
Supp. 02	1500	0.49	0.32	0.30	-0.01	0.91
Age	1500	0.49	0.32	0.31	-0.01	0.94
X-ray bilat. infilt.	1500	0.49	0.31	0.32	-0.01	0.97
No. symptoms	1500	0.49	0.30	0.32	-0.01	0.99
No. comorbid	1500	0.49	0.30	0.32	-0.01	1.00
Dyspnea	1500	0.49	0.30	0.32	-0.01	1.00
Hypertension	1500	0.49	0.30	0.32	-0.01	1.00
Unadjusted	1500	0.49	0.30	0.33	-0.01	1.00
Smoking status	1500	0.49	0.31	0.33	-0.01	1.00
BMI	1500	0.49	0.30	0.33	-0.01	1.00
Sex	1500	0.49	0.31	0.33	-0.01	1.01

Table 18: Results for the Mann-Whitney statistic in a hospitalized population.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
LASSO, A	100	0.46	0.18	0.22	0.00	0.85
LASSO, all	100	0.46	0.19	0.23	0.00	0.86
LASSO, B	100	0.46	0.18	0.23	0.00	0.87
Unadjusted	100	0.46	0.12	0.26	0.00	1.00
No. symptoms	100	0.46	0.14	0.30	0.00	1.13
BMI	100	0.46	0.14	0.30	0.00	1.14
No. comorbid	100	0.46	0.14	0.30	0.00	1.15
Age	100	0.46	0.16	0.35	0.00	1.33
Supp. 02	100	0.46	0.26	0.71	0.00	2.66
Age & supp. 02	100	0.46	0.26	0.76	0.00	2.85
Hypertension	100	0.46	0.22	0.79	0.00	3.00
X-ray bilat. infilt.	100	0.46	0.28	0.85	-0.01	3.22
Sex	100	0.46	0.25	0.88	0.00	3.33
Dyspnea	100	0.46	0.27	0.92	-0.01	3.47
Smoking status	100	0.46	0.32	1.28	0.00	4.84
Set B	100	0.46	0.42	1.66	0.01	6.27
Set A	100	0.46	0.43	1.87	0.01	7.08
All	100	0.46	0.44	2.11	0.00	7.97
LASSO, A	250	0.46	0.32	0.22	0.00	0.82
LASSO, all	250	0.46	0.33	0.22	0.00	0.82
LASSO, B	250	0.46	0.31	0.22	0.00	0.83
Age	250	0.46	0.25	0.25	0.00	0.94
No. symptoms	250	0.46	0.26	0.26	0.00	0.98
No. comorbid	250	0.46	0.26	0.26	0.00	0.99
BMI	250	0.46	0.26	0.26	0.00	1.00
Unadjusted	250	0.46	0.25	0.26	0.00	1.00
Age & supp. 02	250	0.46	0.30	0.29	0.00	1.08
Sex	250	0.46	0.26	0.31	0.00	1.15
Supp. 02	250	0.46	0.27	0.32	0.00	1.20
Hypertension	250	0.46	0.27	0.32	0.00	1.23
X-ray bilat. infilt.	250	0.46	0.27	0.37	0.00	1.40
Dyspnea	250	0.46	0.26	0.38	0.00	1.43
Set B	250	0.46	0.32	0.51	0.00	1.94
Smoking status	250	0.46	0.27	0.52	0.00	1.97
Set A	250	0.46	0.34	0.68	-0.01	2.56
All	250	0.46	0.34	0.90	-0.01	3.41
LASSO, all	500	0.46	0.55	0.21	0.00	0.84
LASSO, A	500	0.46	0.55	0.21	0.00	0.85
LASSO, B	500	0.46	0.53	0.21	0.00	0.85
Set B	500	0.46	0.53	0.21	0.00	0.85
All	500	0.46	0.54	0.21	0.00	0.86
Age & supp. 02	500	0.46	0.52	0.21	0.00	0.86
Supp. 02	500	0.46	0.50	0.22	0.00	0.89
Set A	500	0.46	0.55	0.23	0.00	0.93
Age	500	0.46	0.47	0.23	0.00	0.95
No. symptoms	500	0.46	0.45	0.24	0.00	0.99
Hypertension	500	0.46	0.45	0.24	0.00	1.00
No. comorbid	500	0.46	0.46	0.24	0.00	1.00
Dyspnea	500	0.46	0.45	0.25	0.00	1.00
Unadjusted	500	0.46	0.45	0.25	0.00	1.00

BMI	500	0.46	0.45	0.25	0.00	1.00
Sex	500	0.46	0.46	0.25	0.00	1.00
Smoking status	500	0.46	0.46	0.25	0.00	1.03
X-ray bilat. infilt.	500	0.46	0.47	0.26	0.00	1.06
LASSO, A	1500	0.46	0.94	0.22	0.00	0.83
LASSO, all	1500	0.46	0.94	0.22	0.00	0.83
Set A	1500	0.46	0.94	0.22	0.00	0.83
All	1500	0.46	0.94	0.22	0.00	0.83
LASSO, B	1500	0.46	0.94	0.22	0.00	0.83
Set B	1500	0.46	0.93	0.22	0.00	0.84
Age & supp. 02	1500	0.46	0.93	0.22	0.00	0.84
Supp. 02	1500	0.46	0.92	0.23	0.00	0.89
Age	1500	0.46	0.90	0.24	0.00	0.93
X-ray bilat. infilt.	1500	0.46	0.90	0.25	0.00	0.96
No. symptoms	1500	0.46	0.90	0.26	0.00	0.99
Dyspnea	1500	0.46	0.90	0.26	0.00	1.00
Smoking status	1500	0.46	0.89	0.26	0.00	1.00
Unadjusted	1500	0.46	0.89	0.26	0.00	1.00
No. comorbid	1500	0.46	0.89	0.26	0.00	1.00
Hypertension	1500	0.46	0.89	0.26	0.00	1.00
BMI	1500	0.46	0.89	0.26	0.00	1.00
Sex	1500	0.46	0.89	0.26	0.00	1.01

Table 19: Results for the log odds ratio in a hospitalized population when covariates are not predictive of the 14-day ordinal outcome.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
LASSO, A	100	0	0.09	18.95	-0.01	0.52
LASSO, B	100	0	0.09	19.30	-0.01	0.53
LASSO, all	100	0	0.09	19.46	-0.01	0.53
Unadjusted	100	0	0.05	36.53	0.01	1.00
Age	100	0	0.05	37.25	0.01	1.02
Set B	100	0	0.06	37.59	0.01	1.03
No. symptoms	100	0	0.05	38.50	0.01	1.05
No. comorbid	100	0	0.05	38.71	0.01	1.06
BMI	100	0	0.04	38.73	0.01	1.06
Supp. 02	100	0	0.04	38.91	0.01	1.07
All	100	0	0.07	38.92	0.01	1.07
Hypertension	100	0	0.05	38.95	0.01	1.07
Sex	100	0	0.05	39.15	0.01	1.07
Dyspnea	100	0	0.05	39.28	0.00	1.08
Set A	100	0	0.07	39.48	0.00	1.08
Smoking status	100	0	0.06	39.61	0.01	1.08
X-ray bilat. infilt.	100	0	0.05	39.67	0.00	1.09
Age & supp. 02	100	0	0.05	42.48	0.00	1.16
BMI	250	0	0.04	16.20	0.01	0.99
LASSO, all	250	0	0.06	16.21	0.01	0.99
LASSO, A	250	0	0.06	16.26	0.01	1.00
No. symptoms	250	0	0.04	16.28	0.01	1.00
Sex	250	0	0.04	16.30	0.01	1.00
Unadjusted	250	0	0.04	16.30	0.01	1.00
X-ray bilat. infilt.	250	0	0.04	16.33	0.01	1.00
Dyspnea	250	0	0.04	16.35	0.01	1.00
LASSO, B	250	0	0.06	16.35	0.01	1.00
Supp. 02	250	0	0.04	16.39	0.01	1.01
No. comorbid	250	0	0.04	16.40	0.01	1.01
Hypertension	250	0	0.04	16.41	0.01	1.01
Age	250	0	0.04	16.45	0.01	1.01
Age & supp. 02	250	0	0.04	16.52	0.01	1.01
Smoking status	250	0	0.04	16.56	0.01	1.02
Set B	250	0	0.04	16.73	0.01	1.03
Set A	250	0	0.05	16.91	0.01	1.04
All	250	0	0.04	17.05	0.01	1.05
LASSO, all	500	0	0.05	15.03	0.00	0.98
LASSO, A	500	0	0.05	15.06	0.00	0.99
Set A	500	0	0.04	15.11	0.00	0.99
All	500	0	0.04	15.12	0.00	0.99
Smoking status	500	0	0.04	15.14	0.00	0.99
No. symptoms	500	0	0.04	15.15	0.00	0.99
LASSO, B	500	0	0.05	15.17	0.00	0.99
Dyspnea	500	0	0.04	15.22	0.00	1.00
Age	500	0	0.04	15.24	0.00	1.00
Age & supp. 02	500	0	0.04	15.26	0.00	1.00
Sex	500	0	0.04	15.26	0.00	1.00
Unadjusted	500	0	0.04	15.26	0.00	1.00
Set B	500	0	0.04	15.26	0.00	1.00

Supp. 02	500	0	0.04	15.26	0.00	1.00
X-ray bilat. infilt.	500	0	0.04	15.27	0.00	1.00
No. comorbid	500	0	0.04	15.28	0.00	1.00
Hypertension	500	0	0.04	15.28	0.00	1.00
BMI	500	0	0.04	15.34	0.00	1.00
All	1500	0	0.05	16.68	0.00	0.99
LASSO, A	1500	0	0.05	16.69	0.00	0.99
LASSO, all	1500	0	0.06	16.70	0.00	1.00
Set A	1500	0	0.05	16.72	0.00	1.00
Smoking status	1500	0	0.05	16.72	0.00	1.00
No. comorbid	1500	0	0.05	16.73	0.00	1.00
Supp. 02	1500	0	0.05	16.73	0.00	1.00
X-ray bilat. infilt.	1500	0	0.05	16.73	0.00	1.00
Hypertension	1500	0	0.05	16.74	0.00	1.00
Set B	1500	0	0.05	16.77	0.00	1.00
Dyspnea	1500	0	0.05	16.77	0.00	1.00
Unadjusted	1500	0	0.05	16.78	0.00	1.00
LASSO, B	1500	0	0.05	16.78	0.00	1.00
Sex	1500	0	0.05	16.80	0.00	1.00
Age & supp. 02	1500	0	0.05	16.80	0.00	1.00
BMI	1500	0	0.05	16.81	0.00	1.00
No. symptoms	1500	0	0.05	16.81	0.00	1.00
Age	1500	0	0.05	16.85	0.00	1.00

Table 20: Results for the log odds ratio in a hospitalized population when covariates are not predictive of the 14-day ordinal outcome.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
LASSO, A	100	0.22	0.14	30.37	0.03	0.32
LASSO, all	100	0.22	0.15	32.15	0.03	0.34
LASSO, B	100	0.22	0.14	38.50	0.05	0.40
Set B	100	0.22	0.11	75.02	0.09	0.78
Set A	100	0.22	0.11	83.27	0.10	0.87
No. symptoms	100	0.22	0.10	94.52	0.11	0.99
Age	100	0.22	0.10	95.15	0.10	1.00
Unadjusted	100	0.22	0.10	95.62	0.11	1.00
All	100	0.22	0.12	95.91	0.08	1.00
Sex	100	0.22	0.10	96.24	0.12	1.01
Dyspnea	100	0.22	0.10	96.96	0.11	1.01
Age & supp. 02	100	0.22	0.10	97.07	0.11	1.02
BMI	100	0.22	0.10	97.09	0.12	1.02
Supp. 02	100	0.22	0.10	97.54	0.11	1.02
Hypertension	100	0.22	0.10	98.52	0.11	1.03
Smoking status	100	0.22	0.10	98.76	0.11	1.03
No. comorbid	100	0.22	0.10	98.76	0.11	1.03
X-ray bilat. infilt.	100	0.22	0.10	99.36	0.11	1.04
LASSO, all	250	0.22	0.17	17.76	0.01	0.79
LASSO, A	250	0.22	0.17	17.79	0.01	0.79
LASSO, B	250	0.22	0.17	17.88	0.01	0.80
BMI	250	0.22	0.13	22.35	0.02	1.00
X-ray bilat. infilt.	250	0.22	0.13	22.41	0.02	1.00
Sex	250	0.22	0.13	22.44	0.02	1.00
Unadjusted	250	0.22	0.13	22.45	0.02	1.00
No. symptoms	250	0.22	0.13	22.46	0.02	1.00
Dyspnea	250	0.22	0.13	22.56	0.02	1.00
Supp. 02	250	0.22	0.13	22.60	0.02	1.01
Age	250	0.22	0.13	22.60	0.02	1.01
No. comorbid	250	0.22	0.13	22.61	0.02	1.01
Hypertension	250	0.22	0.13	22.63	0.02	1.01
Age & supp. 02	250	0.22	0.13	22.71	0.02	1.01
Smoking status	250	0.22	0.15	22.81	0.02	1.02
Set B	250	0.22	0.15	23.00	0.02	1.02
Set A	250	0.22	0.15	23.06	0.02	1.03
All	250	0.22	0.15	23.49	0.02	1.05
LASSO, A	500	0.22	0.23	16.01	0.00	0.99
LASSO, all	500	0.22	0.23	16.04	0.00	0.99
Set A	500	0.22	0.22	16.06	0.01	0.99
All	500	0.22	0.22	16.07	0.01	0.99
Smoking status	500	0.22	0.22	16.12	0.01	0.99
No. symptoms	500	0.22	0.21	16.16	0.01	0.99
Sex	500	0.22	0.21	16.22	0.01	1.00
LASSO, B	500	0.22	0.23	16.22	0.00	1.00
Set B	500	0.22	0.21	16.22	0.01	1.00
Age	500	0.22	0.21	16.23	0.01	1.00
Age & supp. 02	500	0.22	0.21	16.25	0.00	1.00
Dyspnea	500	0.22	0.20	16.25	0.01	1.00
X-ray bilat. infilt.	500	0.22	0.20	16.25	0.00	1.00

Unadjusted	500	0.22	0.20	16.26	0.01	1.00
Supp. 02	500	0.22	0.21	16.26	0.00	1.00
No. comorbid	500	0.22	0.21	16.26	0.01	1.00
Hypertension	500	0.22	0.21	16.29	0.01	1.00
BMI	500	0.22	0.21	16.31	0.00	1.00
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All	1500	0.22	0.54	17.13	0.00	1.00
LASSO, all	1500	0.22	0.56	17.14	0.00	1.00
No. comorbid	1500	0.22	0.54	17.14	0.00	1.00
Smoking status	1500	0.22	0.55	17.15	0.00	1.00
Set A	1500	0.22	0.54	17.15	0.00	1.00
X-ray bilat. infilt.	1500	0.22	0.54	17.16	0.00	1.00
LASSO, A	1500	0.22	0.55	17.16	0.00	1.00
Hypertension	1500	0.22	0.53	17.16	0.00	1.00
Supp. 02	1500	0.22	0.54	17.16	0.00	1.00
Dyspnea	1500	0.22	0.54	17.18	0.00	1.00
Set B	1500	0.22	0.54	17.18	0.00	1.00
LASSO, B	1500	0.22	0.55	17.20	0.00	1.00
Unadjusted	1500	0.22	0.54	17.20	0.00	1.00
Sex	1500	0.22	0.54	17.21	0.00	1.00
Age & supp. 02	1500	0.22	0.54	17.22	0.00	1.00
BMI	1500	0.22	0.54	17.23	0.00	1.00
No. symptoms	1500	0.22	0.54	17.24	0.00	1.00
Age	1500	0.22	0.54	17.27	0.00	1.00

Table 21: Results for the log odds ratio in a hospitalized population when covariates are not predictive of the 14-day ordinal outcome.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
LASSO, A	100	0.6	0.46	96.98	0.28	0.17
LASSO, all	100	0.6	0.44	102.83	0.28	0.18
LASSO, B	100	0.6	0.45	134.52	0.34	0.24
Set A	100	0.6	0.40	364.78	0.72	0.64
All	100	0.6	0.40	386.36	0.78	0.68
Set B	100	0.6	0.40	412.87	0.84	0.72
Age & supp. 02	100	0.6	0.41	555.16	1.12	0.97
Age	100	0.6	0.41	555.64	1.13	0.97
No. symptoms	100	0.6	0.40	556.39	1.12	0.97
Smoking status	100	0.6	0.41	556.96	1.12	0.98
BMI	100	0.6	0.41	561.79	1.13	0.98
X-ray bilat. infilt.	100	0.6	0.41	565.56	1.14	0.99
No. comorbid	100	0.6	0.40	565.65	1.14	0.99
Dyspnea	100	0.6	0.40	569.24	1.15	1.00
Unadjusted	100	0.6	0.40	571.10	1.16	1.00
Hypertension	100	0.6	0.40	572.21	1.15	1.00
Supp. 02	100	0.6	0.41	573.73	1.16	1.00
Sex	100	0.6	0.41	573.96	1.16	1.01
LASSO, all	250	0.6	0.66	42.84	0.08	0.16
LASSO, A	250	0.6	0.65	59.28	0.09	0.22
LASSO, B	250	0.6	0.65	76.47	0.10	0.29
All	250	0.6	0.61	229.46	0.22	0.87
Set A	250	0.6	0.61	243.79	0.23	0.92
Smoking status	250	0.6	0.60	255.04	0.24	0.96
Set B	250	0.6	0.60	262.92	0.25	0.99
Dyspnea	250	0.6	0.59	264.90	0.24	1.00
X-ray bilat. infilt.	250	0.6	0.60	264.97	0.24	1.00
No. symptoms	250	0.6	0.60	265.06	0.24	1.00
BMI	250	0.6	0.60	265.11	0.24	1.00
No. comorbid	250	0.6	0.60	265.23	0.24	1.00
Unadjusted	250	0.6	0.59	265.26	0.24	1.00
Sex	250	0.6	0.59	265.41	0.24	1.00
Hypertension	250	0.6	0.60	265.46	0.24	1.00
Supp. 02	250	0.6	0.59	265.51	0.24	1.00
Age	250	0.6	0.60	265.66	0.24	1.00
Age & supp. 02	250	0.6	0.60	265.90	0.24	1.00
LASSO, all	500	0.6	0.90	22.53	0.02	0.55
LASSO, A	500	0.6	0.90	23.13	0.02	0.57
LASSO, B	500	0.6	0.89	30.56	0.02	0.75
Smoking status	500	0.6	0.88	40.37	0.03	0.99
No. symptoms	500	0.6	0.87	40.63	0.03	1.00
Sex	500	0.6	0.87	40.63	0.03	1.00
No. comorbid	500	0.6	0.87	40.72	0.03	1.00
Dyspnea	500	0.6	0.87	40.72	0.03	1.00
Hypertension	500	0.6	0.87	40.73	0.03	1.00
Unadjusted	500	0.6	0.87	40.74	0.03	1.00
All	500	0.6	0.88	40.75	0.03	1.00
BMI	500	0.6	0.87	40.76	0.03	1.00
X-ray bilat. infilt.	500	0.6	0.87	40.77	0.03	1.00

Age	500	0.6	0.87	40.82	0.03	1.00
Set B	500	0.6	0.88	40.88	0.03	1.00
Supp. 02	500	0.6	0.88	40.92	0.03	1.00
Set A	500	0.6	0.88	40.95	0.03	1.01
Age & supp. 02	500	0.6	0.88	40.99	0.03	1.01
LASSO, all	1500	0.6	1.00	20.50	0.00	0.99
All	1500	0.6	1.00	20.50	0.01	0.99
Set A	1500	0.6	1.00	20.54	0.01	1.00
LASSO, B	1500	0.6	1.00	20.55	0.00	1.00
LASSO, A	1500	0.6	1.00	20.55	0.00	1.00
Smoking status	1500	0.6	1.00	20.55	0.00	1.00
No. comorbid	1500	0.6	1.00	20.57	0.00	1.00
Set B	1500	0.6	1.00	20.58	0.01	1.00
X-ray bilat. infilt.	1500	0.6	1.00	20.59	0.01	1.00
Supp. 02	1500	0.6	1.00	20.60	0.00	1.00
Hypertension	1500	0.6	1.00	20.60	0.00	1.00
Dyspnea	1500	0.6	1.00	20.60	0.00	1.00
Sex	1500	0.6	1.00	20.62	0.00	1.00
No. symptoms	1500	0.6	1.00	20.63	0.00	1.00
Unadjusted	1500	0.6	1.00	20.63	0.00	1.00
Age & supp. 02	1500	0.6	1.00	20.64	0.00	1.00
Age	1500	0.6	1.00	20.68	0.00	1.00
BMI	1500	0.6	1.00	20.70	0.00	1.00

Table 22: Results for the Mann-Whitney statistic in a hospitalized population when covariates are not predictive of the 14-day ordinal outcome.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Unadjusted	100	0.5	0.04	0.23	0.00	1.00
LASSO, all	100	0.5	0.06	0.24	0.00	1.04
LASSO, A	100	0.5	0.06	0.24	0.00	1.05
LASSO, B	100	0.5	0.06	0.24	0.00	1.05
BMI	100	0.5	0.05	0.30	0.00	1.27
Age	100	0.5	0.06	0.31	0.00	1.34
No. symptoms	100	0.5	0.07	0.35	0.00	1.50
No. comorbid	100	0.5	0.11	0.50	0.00	2.16
Supp. 02	100	0.5	0.19	1.02	0.00	4.36
Age & supp. 02	100	0.5	0.23	1.08	0.00	4.65
Hypertension	100	0.5	0.22	1.11	-0.01	4.76
Sex	100	0.5	0.23	1.15	0.00	4.92
X-ray bilat. infilt.	100	0.5	0.25	1.21	0.00	5.17
Dyspnea	100	0.5	0.27	1.24	0.00	5.33
Smoking status	100	0.5	0.32	1.62	-0.01	6.93
Set B	100	0.5	0.35	1.76	0.00	7.55
Set A	100	0.5	0.37	2.06	0.00	8.84
All	100	0.5	0.42	2.39	-0.01	10.25
BMI	250	0.5	0.03	0.25	0.00	1.00
Unadjusted	250	0.5	0.03	0.25	0.00	1.00
LASSO, all	250	0.5	0.05	0.25	0.00	1.00
LASSO, A	250	0.5	0.05	0.25	0.00	1.00
LASSO, B	250	0.5	0.04	0.25	0.00	1.00
Age	250	0.5	0.03	0.25	0.00	1.01
No. symptoms	250	0.5	0.03	0.26	0.00	1.04
No. comorbid	250	0.5	0.04	0.28	0.00	1.12
Supp. 02	250	0.5	0.05	0.45	0.00	1.78
Hypertension	250	0.5	0.05	0.50	0.00	1.98
Sex	250	0.5	0.06	0.54	0.00	2.16
Age & supp. 02	250	0.5	0.07	0.60	0.00	2.39
Dyspnea	250	0.5	0.07	0.72	0.00	2.85
X-ray bilat. infilt.	250	0.5	0.09	0.83	0.00	3.29
Smoking status	250	0.5	0.13	1.24	0.00	4.93
Set B	250	0.5	0.15	1.40	0.00	5.56
Set A	250	0.5	0.18	1.73	0.00	6.85
All	250	0.5	0.21	2.06	0.00	8.16
LASSO, all	500	0.5	0.04	0.24	0.00	0.98
LASSO, A	500	0.5	0.05	0.24	0.00	0.99
LASSO, B	500	0.5	0.04	0.24	0.00	0.99
No. symptoms	500	0.5	0.04	0.24	0.00	0.99
Age & supp. 02	500	0.5	0.04	0.24	0.00	1.00
Unadjusted	500	0.5	0.04	0.24	0.00	1.00
Age	500	0.5	0.04	0.24	0.00	1.00
No. comorbid	500	0.5	0.04	0.24	0.00	1.00
Supp. 02	500	0.5	0.04	0.24	0.00	1.01
BMI	500	0.5	0.04	0.24	0.00	1.01
Sex	500	0.5	0.04	0.26	0.00	1.08
Hypertension	500	0.5	0.04	0.28	0.00	1.16
Dyspnea	500	0.5	0.04	0.36	0.00	1.52

Smoking status	500	0.5	0.05	0.53	0.00	2.24
X-ray bilat. infilt.	500	0.5	0.05	0.58	0.00	2.44
Set A	500	0.5	0.06	0.65	0.00	2.70
Set B	500	0.5	0.07	0.77	0.00	3.20
All	500	0.5	0.06	0.85	0.00	3.56
LASSO, A	1500	0.5	0.05	0.27	0.00	0.99
LASSO, all	1500	0.5	0.06	0.27	0.00	1.00
X-ray bilat. infilt.	1500	0.5	0.05	0.27	0.00	1.00
All	1500	0.5	0.06	0.27	0.00	1.00
No. comorbid	1500	0.5	0.05	0.27	0.00	1.00
Hypertension	1500	0.5	0.05	0.27	0.00	1.00
Set A	1500	0.5	0.05	0.27	0.00	1.00
Smoking status	1500	0.5	0.05	0.27	0.00	1.00
Supp. 02	1500	0.5	0.05	0.27	0.00	1.00
Sex	1500	0.5	0.05	0.27	0.00	1.00
Unadjusted	1500	0.5	0.05	0.27	0.00	1.00
Dyspnea	1500	0.5	0.05	0.27	0.00	1.00
LASSO, B	1500	0.5	0.05	0.27	0.00	1.00
No. symptoms	1500	0.5	0.05	0.27	0.00	1.00
Set B	1500	0.5	0.05	0.27	0.00	1.00
BMI	1500	0.5	0.05	0.27	0.00	1.00
Age & supp. 02	1500	0.5	0.05	0.27	0.00	1.00
Age	1500	0.5	0.05	0.27	0.00	1.01

Table 23: Results for the Mann-Whitney statistic in a hospitalized population when covariates are not predictive of the 14-day ordinal outcome.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Unadjusted	100	0.49	0.06	0.24	-0.01	1.00
LASSO, all	100	0.49	0.09	0.25	-0.01	1.01
LASSO, A	100	0.49	0.09	0.25	-0.01	1.02
LASSO, B	100	0.49	0.09	0.25	-0.01	1.02
Age	100	0.49	0.07	0.26	-0.01	1.07
BMI	100	0.49	0.07	0.26	-0.01	1.09
No. symptoms	100	0.49	0.08	0.28	-0.01	1.16
No. comorbid	100	0.49	0.08	0.31	-0.01	1.28
Hypertension	100	0.49	0.17	0.69	-0.01	2.84
Supp. O2	100	0.49	0.19	0.79	-0.01	3.24
Age & supp. O2	100	0.49	0.21	0.84	-0.01	3.43
Dyspnea	100	0.49	0.21	0.85	0.00	3.48
Sex	100	0.49	0.20	0.92	-0.01	3.77
X-ray bilat. infilt.	100	0.49	0.24	1.03	-0.01	4.22
Smoking status	100	0.49	0.34	1.44	-0.01	5.92
Set B	100	0.49	0.36	1.67	-0.01	6.86
Set A	100	0.49	0.38	1.94	0.00	7.96
All	100	0.49	0.41	2.18	0.00	8.96
BMI	250	0.49	0.08	0.26	-0.01	1.00
Unadjusted	250	0.49	0.08	0.26	-0.01	1.00
No. symptoms	250	0.49	0.09	0.26	-0.01	1.00
LASSO, A	250	0.49	0.10	0.26	-0.01	1.01
No. comorbid	250	0.49	0.09	0.26	-0.01	1.01
LASSO, all	250	0.49	0.10	0.26	-0.01	1.01
Age	250	0.49	0.08	0.26	-0.01	1.01
LASSO, B	250	0.49	0.10	0.26	-0.01	1.01
Sex	250	0.49	0.08	0.28	-0.01	1.08
Supp. O2	250	0.49	0.09	0.30	-0.01	1.12
Age & supp. O2	250	0.49	0.09	0.30	-0.01	1.13
Hypertension	250	0.49	0.09	0.30	-0.01	1.14
Dyspnea	250	0.49	0.09	0.37	-0.01	1.40
X-ray bilat. infilt.	250	0.49	0.09	0.42	-0.01	1.60
Set B	250	0.49	0.12	0.56	-0.01	2.14
Smoking status	250	0.49	0.13	0.73	-0.01	2.76
Set A	250	0.49	0.14	0.73	0.00	2.78
All	250	0.49	0.14	0.81	-0.01	3.10
LASSO, A	500	0.49	0.13	0.26	-0.01	0.98
LASSO, all	500	0.49	0.13	0.26	-0.01	0.98
No. symptoms	500	0.49	0.12	0.26	-0.01	1.00
LASSO, B	500	0.49	0.13	0.26	-0.01	1.00
Set A	500	0.49	0.12	0.26	-0.01	1.00
Sex	500	0.49	0.12	0.26	-0.01	1.00
Dyspnea	500	0.49	0.12	0.26	-0.01	1.00
Supp. O2	500	0.49	0.12	0.26	-0.01	1.00
Unadjusted	500	0.49	0.12	0.26	-0.01	1.00
No. comorbid	500	0.49	0.12	0.26	-0.01	1.00
Age	500	0.49	0.12	0.26	-0.01	1.00
Age & supp. O2	500	0.49	0.12	0.26	-0.01	1.00
All	500	0.49	0.12	0.26	-0.01	1.00

Hypertension	500	0.49	0.12	0.26	-0.01	1.00
BMI	500	0.49	0.12	0.26	-0.01	1.00
Smoking status	500	0.49	0.12	0.28	-0.01	1.07
X-ray bilat. infilt.	500	0.49	0.12	0.28	-0.01	1.09
Set B	500	0.49	0.12	0.30	-0.01	1.15
No. comorbid	1500	0.49	0.29	0.33	-0.01	1.00
Hypertension	1500	0.49	0.30	0.33	-0.01	1.00
Smoking status	1500	0.49	0.30	0.33	-0.01	1.00
X-ray bilat. infilt.	1500	0.49	0.30	0.33	-0.01	1.00
Dyspnea	1500	0.49	0.30	0.33	-0.01	1.00
LASSO, all	1500	0.49	0.31	0.33	-0.01	1.00
Unadjusted	1500	0.49	0.30	0.33	-0.01	1.00
Supp. 02	1500	0.49	0.30	0.33	-0.01	1.00
LASSO, A	1500	0.49	0.31	0.33	-0.01	1.00
No. symptoms	1500	0.49	0.30	0.33	-0.01	1.00
All	1500	0.49	0.30	0.33	-0.01	1.00
Sex	1500	0.49	0.30	0.33	-0.01	1.00
BMI	1500	0.49	0.30	0.33	-0.01	1.00
LASSO, B	1500	0.49	0.30	0.33	-0.01	1.00
Set A	1500	0.49	0.30	0.33	-0.01	1.00
Set B	1500	0.49	0.30	0.33	-0.01	1.00
Age	1500	0.49	0.30	0.33	-0.01	1.00
Age & supp. 02	1500	0.49	0.31	0.33	-0.01	1.00

Table 24: Results for the Mann-Whitney statistic in a hospitalized population when covariates are not predictive of the 14-day ordinal outcome.

Covariate(s)	N	Effect	P(Reject H_0)	MSE x N	Bias	Rel. eff.
Unadjusted	100	0.46	0.12	0.24	0.00	1.00
LASS0, all	100	0.46	0.14	0.24	0.00	1.02
LASS0, A	100	0.46	0.14	0.24	0.00	1.03
LASS0, B	100	0.46	0.14	0.25	0.00	1.04
Age	100	0.46	0.12	0.25	0.00	1.06
BMI	100	0.46	0.13	0.28	0.00	1.17
No. symptoms	100	0.46	0.13	0.28	0.00	1.19
No. comorbid	100	0.46	0.13	0.31	0.00	1.30
Supp. 02	100	0.46	0.20	0.59	0.00	2.49
Age & supp. 02	100	0.46	0.22	0.68	0.00	2.86
Hypertension	100	0.46	0.21	0.76	0.00	3.19
Sex	100	0.46	0.23	0.76	0.00	3.20
Dyspnea	100	0.46	0.23	0.80	0.01	3.37
X-ray bilat. infilt.	100	0.46	0.26	1.03	0.00	4.33
Smoking status	100	0.46	0.35	1.32	0.00	5.54
Set B	100	0.46	0.43	1.72	0.00	7.23
Set A	100	0.46	0.42	1.94	0.01	8.20
All	100	0.46	0.43	2.27	0.00	9.57
BMI	250	0.46	0.26	0.25	0.00	1.00
Unadjusted	250	0.46	0.27	0.25	0.00	1.00
No. symptoms	250	0.46	0.27	0.25	0.00	1.00
No. comorbid	250	0.46	0.27	0.25	0.00	1.01
Age	250	0.46	0.27	0.25	0.00	1.01
LASS0, A	250	0.46	0.28	0.25	0.00	1.01
LASS0, B	250	0.46	0.29	0.25	0.00	1.01
LASS0, all	250	0.46	0.29	0.25	0.00	1.01
Supp. 02	250	0.46	0.27	0.26	0.00	1.04
Age & supp. 02	250	0.46	0.28	0.26	0.00	1.04
Hypertension	250	0.46	0.27	0.26	0.00	1.05
Dyspnea	250	0.46	0.27	0.27	0.00	1.08
Sex	250	0.46	0.27	0.29	0.00	1.19
X-ray bilat. infilt.	250	0.46	0.28	0.40	0.00	1.62
Set B	250	0.46	0.29	0.45	0.00	1.82
Set A	250	0.46	0.30	0.56	0.00	2.28
Smoking status	250	0.46	0.29	0.60	0.00	2.45
All	250	0.46	0.31	0.71	0.00	2.87
LASS0, all	500	0.46	0.47	0.23	0.00	0.99
LASS0, A	500	0.46	0.47	0.23	0.00	0.99
No. symptoms	500	0.46	0.45	0.23	0.00	0.99
LASS0, B	500	0.46	0.47	0.23	0.00	1.00
Sex	500	0.46	0.45	0.23	0.00	1.00
Dyspnea	500	0.46	0.46	0.23	0.00	1.00
Unadjusted	500	0.46	0.45	0.23	0.00	1.00
No. comorbid	500	0.46	0.45	0.23	0.00	1.00
X-ray bilat. infilt.	500	0.46	0.45	0.23	0.00	1.00
Hypertension	500	0.46	0.46	0.23	0.00	1.00
Supp. 02	500	0.46	0.44	0.23	0.00	1.00
Age	500	0.46	0.45	0.23	0.00	1.00
Set A	500	0.46	0.45	0.23	0.00	1.00

Age & supp. 02	500	0.46	0.45	0.23	0.00	1.01
BMI	500	0.46	0.46	0.23	0.00	1.01
Set B	500	0.46	0.46	0.23	0.00	1.01
Smoking status	500	0.46	0.46	0.24	0.00	1.05
All	500	0.46	0.45	0.25	0.00	1.07
Hypertension	1500	0.46	0.88	0.27	0.00	1.00
All	1500	0.46	0.89	0.27	0.00	1.00
No. comorbid	1500	0.46	0.88	0.27	0.00	1.00
Smoking status	1500	0.46	0.89	0.27	0.00	1.00
X-ray bilat. infilt.	1500	0.46	0.88	0.27	0.00	1.00
LASSO, all	1500	0.46	0.89	0.27	0.00	1.00
LASSO, A	1500	0.46	0.89	0.27	0.00	1.00
Set A	1500	0.46	0.89	0.27	0.00	1.00
Supp. 02	1500	0.46	0.88	0.27	0.00	1.00
Dyspnea	1500	0.46	0.88	0.27	0.00	1.00
Unadjusted	1500	0.46	0.88	0.27	0.00	1.00
Sex	1500	0.46	0.88	0.27	0.00	1.00
LASSO, B	1500	0.46	0.89	0.27	0.00	1.00
No. symptoms	1500	0.46	0.88	0.27	0.00	1.00
Set B	1500	0.46	0.89	0.27	0.00	1.00
BMI	1500	0.46	0.88	0.27	0.00	1.00
Age & supp. 02	1500	0.46	0.88	0.27	0.00	1.00
Age	1500	0.46	0.88	0.27	0.00	1.00