Appendix A

Machine Learning Models for 180-day Mortality Prediction of Patients with Advanced Cancer Using Patient-reported Symptom Data

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The Edmonton Symptom Assessment System (ESAS–FS)

Edmonton Symptom Assessment Scale (ESAS–FS)

Please circle the number that best describes your symptoms:

	0	1	2	3	4	5	6	7	8	9	10	
No Pain	0	1	2	3	4	5	6	7	8	9	10	Worst Pain
No Fatigue	0	1	2	3	4	5	6	7	8	9	10	Worst Fatigue
No Nausea	0	1	2	3	4	5	6	7	8	9	10	Worst Nausea
No Depression	0	1	2	3	4	5	6	7	8	9	10	Worst Depression
No Anxiety	0	1	2	3	4	5	6	7	8	9	10	Worst Anxiety
No Drowsiness	0	1	2	3	4	5	6	7	8	9	10	Worst Drowsiness
No Shortness of Breath	0	1	2	3	4	5	6	7	8	9	10	Worst Shortness of Breath
Best Appetite	0	1	2	3	4	5	6	7	8	9	10	Worst Appetite
Best Feeling of Well-being	0	1	2	3	4	5	6	7	8	9	10	Worst Feeling of Well-being
Best Sleep	0	1	2	3	4	5	6	7	8	9	10	Worst Sleep
No Financial Distress	0	1	2	3	4	5	6	7	8	9	10	Worst Financial Distress

(Distress/suffering experienced secondary to financial issues)

	0	1	2	3	4	5	6	7	8	9	10	
No Spiritual Pain	0	1	2	3	4	5	6	7	8	9	10	Worst Spiritual Pain

(Pain deep in your soul/being that is not physical)