

APPENDIX A

In this appendix we show the characteristics of the patient in the dataset.

Figure 2. The set of rules provided by RULE model

(age \geq 78) and (adm_fever = Yes) \Rightarrow output_type = death
 (charlson_index \geq 5) and (age \geq 80) \Rightarrow output_type = death
 (charlson_index \geq 4) and (age \geq 85) \Rightarrow output_type = death
 (charlson_index \geq 5) and (COPD = Yes) \Rightarrow output_type = death
 (charlson_index \geq 4) and (diabetes = Yes) and (chronickidneyfailure = Yes) \Rightarrow output_type = death
 \Rightarrow output_type = discharge

Figure 3. The decision tree provided by DT model

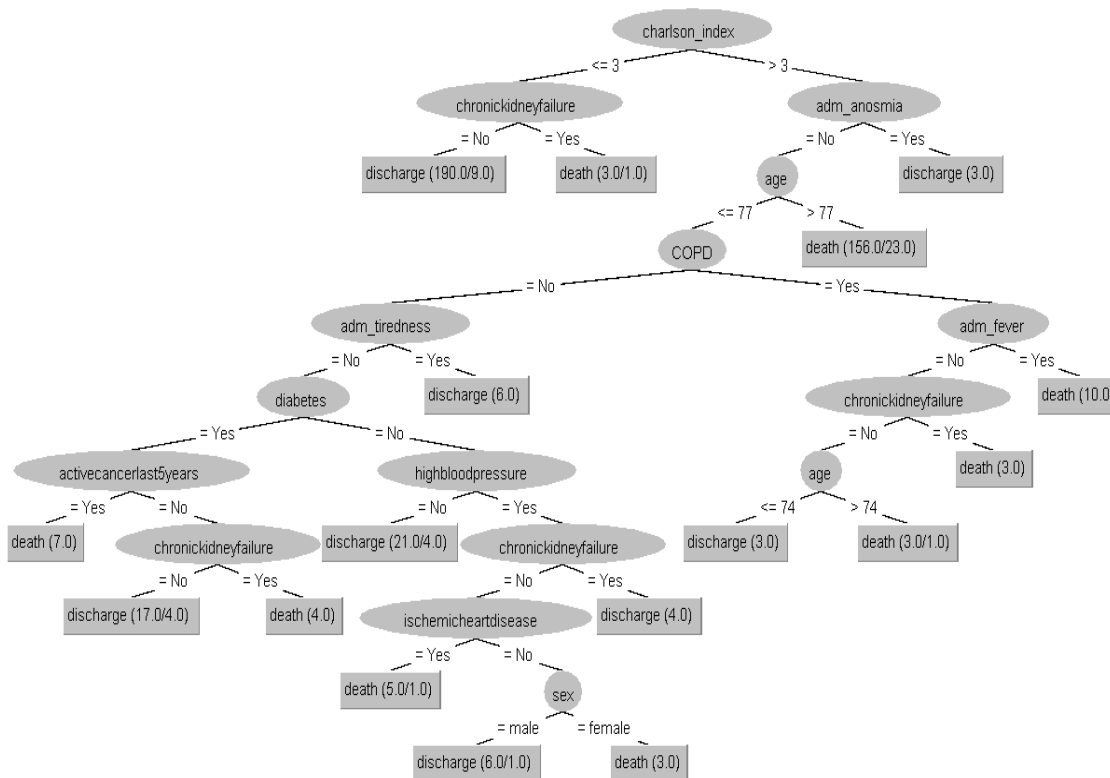


Table A1. Characteristics of the patient in the dataset used in our study.

BASELINE		
SEX	M	259
	F	185
AGE	MIN	19
	MAX	92
	MEAN	67.624
	STANDARD DEVIATION	17.456
Symptom		
Fever	YES	284
	NO	160
Chills	YES	5
	NO	439
Hacking cough	YES	141

	NO	303
Phlegm cough	YES	6
	NO	438
Conjunctivitis	YES	0
	NO	444
Rhinorrhea	YES	1
	NO	443
Headache	YES	13
	NO	431
Muscle pain	YES	15
	NO	429
Tiredness	YES	23
	NO	421
Nausea	YES	17
	NO	427
Vomiting	YES	18
	NO	426
Diarrhea	YES	30
	NO	414
Dyspnea	YES	189
	NO	255
Hemoptysis	YES	0
	NO	444
Hematemesis	YES	2
	NO	442
Ageusia	YES	17
	NO	427
Anosmia	YES	13
	NO	431
Abdominal pain	YES	7
	NO	437
Thoracic pain	YES	4
	NO	440
Pharyngeal pain	YES	6
	NO	438
Pathology		
Diabetes	YES	93
	NO	351
High blood pressure	YES	208
	NO	236
Coronary disease	YES	12
	NO	432
Cerebrovascular disease	YES	12
	NO	432
Hepatitis B	YES	1
	NO	443
Active cancer in the last 5 years	YES	58
	NO	386

Chronic kidney failure	YES	43
	NO	401
Immune deficiency	YES	1
	NO	443
Ischemic stroke disease	YES	66
	NO	378
Stroke	YES	42
	NO	412
Dementia	YES	26
	NO	418
Chronic hepatic disease	YES	6
	NO	438
HIV	YES	3
	NO	441
Atrial fibrillation	YES	42
	NO	402
Deep vein thrombosis	YES	3
	NO	441
Pulmonary embolism	YES	5
	NO	439
Obesity	YES	15
	NO	429
Dyslipidemia	YES	23
	NO	421