

Disease	Multi-hash (Hamming distance)			Baseline (Cosine distance)	
	Our system	Open system	Closed system	Open system	Closed system
F1					
Disorders of lipoid metabolism	0.6433 (0.0345)	0.7111 (0.0277)	0.6207 (0.0165)	0.5878 (0.0158)	0.5238 (0.0189)
Hypertensive chronic kidney disease	0.5967 (0.0344)	0.6167 (0.0217)	0.5730 (0.0201)	0.5403 (0.0168)	0.5063 (0.0202)
Cardiac dysrhythmias	0.6521 (0.0368)	0.6934 (0.0234)	0.6249 (0.0202)	0.6230 (0.0177)	0.5417 (0.0203)
Heart failure	0.6887 (0.0318)	0.7418 (0.0251)	0.6235 (0.0218)	0.6065 (0.0189)	0.5445 (0.0211)
Acute renal failure	0.6854 (0.0310)	0.7534 (0.0257)	0.6359 (0.0197)	0.5556 (0.0165)	0.5298 (0.0219)
Sensitivity					
Disorders of lipoid metabolism	0.8263 (0.0214)	0.8374 (0.0278)	0.8302 (0.0198)	0.5918 (0.0198)	0.5391 (0.0187)
Hypertensive chronic kidney disease	0.8594 (0.0261)	0.8656 (0.0265)	0.7969 (0.0188)	0.4453 (0.0177)	0.4646 (0.0165)
Cardiac dysrhythmias	0.7862 (0.0289)	0.8397 (0.0366)	0.7862 (0.0205)	0.6512 (0.0165)	0.5446 (0.0178)
Heart failure	0.9248 (0.0335)	0.9854 (0.0331)	0.8195 (0.0277)	0.6131 (0.0204)	0.5412 (0.0154)
Acute renal failure	0.8714 (0.0368)	0.9929 (0.0311)	0.8618 (0.0267)	0.5357 (0.0211)	0.4834 (0.0201)
Specificity					
Disorders of lipoid metabolism	0.7660 (0.0305)	0.7671 (0.0250)	0.6824 (0.0207)	0.8050 (0.0198)	0.7744 (0.0187)
Hypertensive chronic kidney disease	0.6261 (0.0312)	0.6746 (0.0291)	0.6061 (0.0211)	0.9228 (0.0178)	0.8327 (0.0154)
Cardiac dysrhythmias	0.7313 (0.0304)	0.7442 (0.0270)	0.6964 (0.0235)	0.7778 (0.0167)	0.8101 (0.0166)
Heart failure	0.6896 (0.0278)	0.7195 (0.0258)	0.6689 (0.0165)	0.8293 (0.0165)	0.8188 (0.0154)
Acute renal failure	0.7108 (0.0259)	0.7231 (0.0216)	0.6312 (0.0188)	0.8308 (0.0185)	0.8606 (0.0178)