



Respiratory symptoms (COPD Assessment Test and modified Medical Research Council dyspnea scores) and GOLD-ABCD COPD classification: the LASSYC study

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Table S1. Agreement between mMRC scale and CAT score for each cut point.

CAT	Area under ROC curve		Sensitivity		Specificity		PPV		NPV		Youden's index	
	Estimate	95% CI	Estimate	95% CI	Estimate	95% CI	Estimate	95% CI	Estimate	95% CI		
mMRC = 1	>=1	50,7	48.9; 52.5	99,6	98.8; 99.9	1,8	0.1; 9.7	93,1	91.1; 94.8	25,0	63.1; 80.6	1,014
	>=2	54,2	50.4; 58.0	99,3	98.4; 99.8	9,1	3.0; 20.0	93,5	91.6; 95.2	50,0	18.7; 81.3	1,084
	>=3	60,8	55.1; 66.5	97,9	96.6; 98.8	23,6	13.2; 37.0	94,5	92.6; 96.0	46,4	27.5; 66.1	1,215
	>=4	65,7	59.3; 72.1	96,8	95.3; 98.0	34,5	22.2; 48.6	95,2	93.4; 96.6	45,2	29.8; 61.3	1,313
	>=5	69,8	63.1; 76.5	94,1	92.1; 95.7	45,5	32.0; 59.4	95,8	94.1; 97.2	36,8	25.4; 49.3	1,396
	>=6	72,5	65.8; 79.2	90,4	88.0; 92.4	54,5	40.6; 68.0	96,4	94.7; 97.6	30,0	21.2; 40.0	1,449
	>=7	72,9	66.2; 79.6	87,7	85.1; 90.0	58,2	44.1; 71.3	96,5	94.8; 97.8	26,2	18.7; 35.0	1,459
	>=8	73,5	66.9; 80.1	85,2	82.4; 87.7	61,8	47.7; 74.6	96,7	95.1; 98.0	23,9	17.2; 31.8	1,470
	>=9	74,0	67.6; 80.5	80,8	77.8; 83.6	67,3	83.3; 79.3	97,0	95.4; 98.2	20,9	15.2; 27.6	1,481
	>=10	74,2	67.9; 80.4	77,4	74.2; 80.4	70,9	57.1; 82.4	97,2	95.6; 98.4	19,1	14.0; 25.2	1,483
	>=11	73,9	67.9; 79.9	73,3	69.9; 76.5	74,5	61.0; 85.3	97,4	95.8; 98.6	17,4	12.8; 22.8	1,478
mMRC = 2	>=5	58,4	56.2; 60.5	98,6	91.7; 99.5	18,1	14.1; 22.6	60,8	57.1; 64.4	91,2	81.8; 96.7	1,167
	>=6	61,7	59.3; 64.2	97,5	95.6; 98.8	25,9	21.4; 30.9	62,9	59.2; 66.5	89,0	81.2; 94.4	1,234
	>=7	62,9	60.3; 65.5	95,7	93.4; 97.4	30,0	25.2; 35.2	63,8	60.0; 67.5	84,4	76.8; 90.4	1,257
	>=8	63,5	60.7; 66.2	93,7	91.0; 95.7	33,2	28.3; 38.5	64,4	60.5; 68.1	80,3	72.8; 86.5	1,269
	>=9	65,4	62.5; 68.4	91,0	87.9; 93.5	39,9	34.7; 45.3	66,1	62.2; 69.9	77,4	70.5; 83.3	1,309
	>=10	66,8	63.8; 69.8	88,7	85.4; 91.5	44,9	39.6; 50.3	67,5	63.5; 71.3	75,5	69.0; 81.2	1,336
	>=11	67,1	63.9; 70.2	84,8	81.2; 88.1	49,3	43.9; 54.7	68,3	64.2; 72.2	71,6	65.4; 77.3	1,341
	>=12	66,0	62.7; 69.2	78,3	74.1; 82.0	53,6	48.2; 59.0	68,5	64.3; 72.5	65,7	59.8; 71.3	1,319
	>=13	66,5	63.2; 69.8	72,4	68.0; 76.5	60,6	55.3; 65.8	70,3	65.9; 74.5	63,0	57.6; 68.3	1,330
	>=14	66,8	63.4; 70.1	67,6	63.1; 72.0	65,9	60.6; 70.9	71,9	67.3; 76.1	61,2	56.1; 66.2	1,335
	>=15	66,4	63.0; 69.7	62,4	57.7; 67.0	70,3	65.1; 75.1	73,0	68.2; 77.4	59,2	54.3; 64.0	1,327
mMRC = 3	>=11	64,5	61.7; 67.2	91,8	87.0; 95.2	37,2	33.3; 41.3	62,4	28.5; 36.5	93,2	89.2; 96.1	1,290
	>=12	64,4	61.3; 67.6	86,1	80.4; 90.6	42,8	38.8; 46.9	33,1	29.0; 37.4	90,4	86.3; 93.5	1,289
	>=13	65,3	61.8; 68.7	80,9	74.7; 86.2	49,6	45.5; 53.7	34,5	30.1; 39.1	88,8	84.9; 92.0	1,305
	>=14	66,2	62.6; 69.7	77,3	70.8; 83.0	55,0	50.9; 59.1	36,1	31.4; 40.9	88,1	84.3; 91.2	1,323
	>=15	65,3	61.5; 69.0	71,1	64.2; 77.4	59,4	55.3; 63.4	36,5	31.6; 41.6	86,2	82.5; 89.4	1,305
	>=16	64,0	60.2; 67.9	65,5	58.3; 72.1	62,6	58.6; 66.5	36,5	31.4; 41.8	84,7	80.9; 87.9	1,281
	>=17	64,3	60.4; 68.3	62,4	55.1; 69.2	66,3	62.4; 70.1	37,8	32.5; 43.4	84,3	80.7; 87.5	1,287
	>=18	63,6	59.7; 67.6	57,7	50.4; 64.8	69,5	65.7; 73.2	38,4	32.8; 44.2	83,4	79.8; 86.5	1,272
	>=19	64,3	60.4; 68.2	54,1	46.8; 61.3	74,5	70.7; 77.9	41,0	34.9; 47.3	83,2	79.7; 86.3	1,286
	>=20	63,7	59.8; 67.7	50,0	42.8; 57.2	77,5	73.9; 80.8	42,2	35.7; 48.8	82,5	79.1; 85.6	1,275
	>=21	62,5	58.7; 66.4	44,3	37.2; 51.6	80,7	77.3; 83.8	43,0	36.0; 50.2	81,5	78.2; 84.6	1,250
mMRC = 4	>=15	65,2	59.4; 71.0	76,3	63.4; 86.4	54,1	50.4; 57.8	11,9	8.8; 15.6	96,6	94.3; 98.1	1,304
	>=16	64,5	58.4; 70.6	71,2	57.9; 82.2	57,9	54.2; 61.5	12,1	8.8; 16.0	96,1	93.8; 97.7	1,291
	>=17	66,4	60.4; 72.5	71,2	57.9; 82.2	61,7	58.1; 65.3	13,1	9.6; 17.3	96,3	94.2; 97.9	1,329
	>=18	68,4	62.3; 74.5	71,2	57.9; 82.2	65,6	62.0; 69.0	14,4	10.6; 18.9	96,6	94.5; 98.0	1,368
	>=19	69,0	62.8; 75.3	67,8	54.4; 79.4	70,2	66.8; 73.6	15,6	11.4; 20.7	96,4	94.4; 97.8	1,380
	>=20	67,1	60.7; 73.6	61,0	74.4; 73.5	73,3	69.9; 76.5	15,7	11.2; 21.0	95,9	93.8; 97.4	1,343
	>=21	65,5	59.0; 72.1	54,2	40.8; 67.3	76,9	73.6; 79.9	16,0	11.2; 21.8	95,4	93.4; 96.9	1,311
	>=22	65,1	58.5; 71.7	50,8	37.5; 64.1	79,3	76.2; 82.2	16,7	11.5; 22.9	95,2	93.2; 96.8	1,301
	>=23	64,8	58.2; 71.4	47,5	34.3; 60.9	82,1	79.1; 84.8	17,7	12.1; 24.6	95,1	93.1; 96.6	1,296
	>=24	63,5	57.0; 70.0	42,4	29.6; 55.9	84,7	81.9; 87.3	18,4	12.3; 25.9	94,8	92.8; 96.3	1,271
	>=25	61,7	55.4; 67.9	35,6	23.6; 49.1	87,7	85.1; 90.0	19,1	12.2; 27.7	94,4	92.4; 96.0	1,233

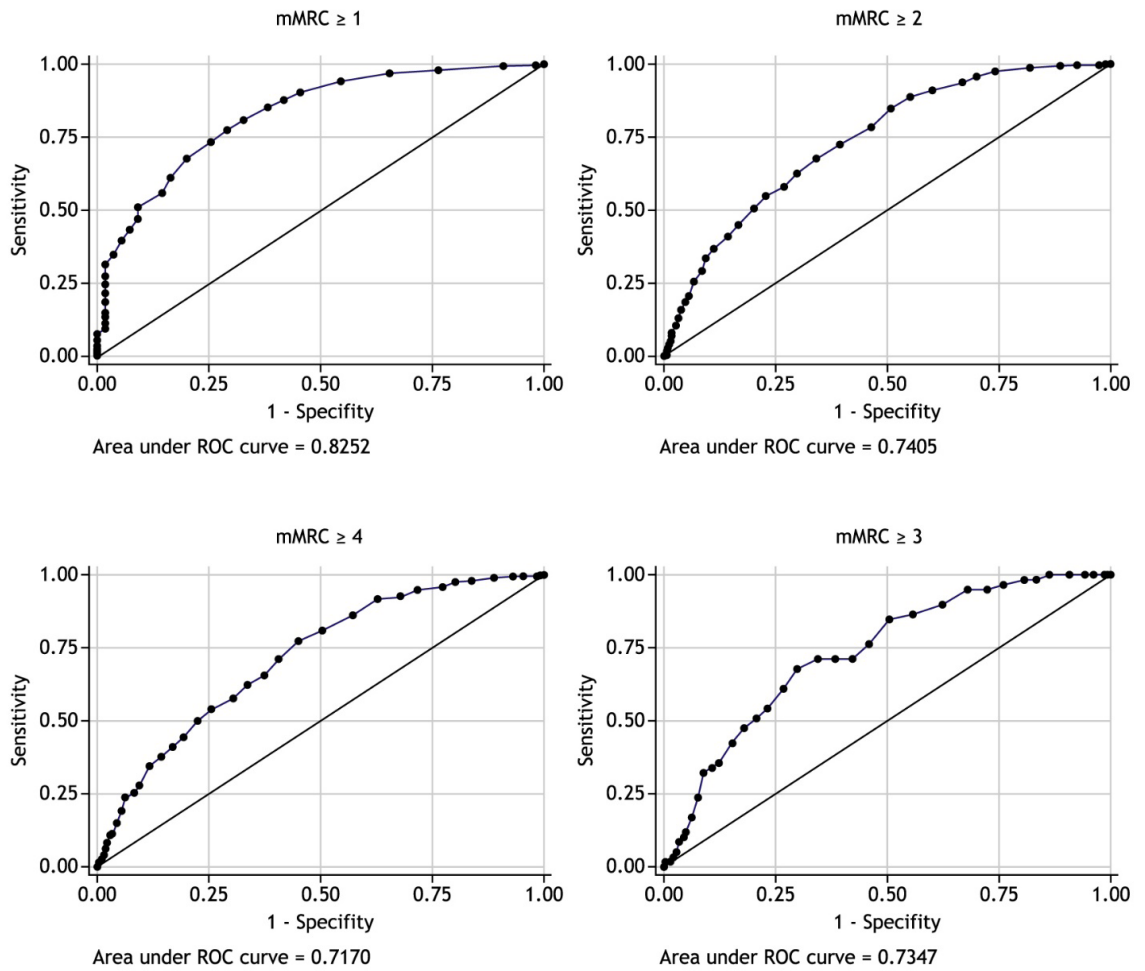


Figure S1. ROC curve of the CAT score. ROC curve for (A) an mMRC score of ≥ 1 , (B) an mMRC score of ≥ 2 , (C) an mMRC score ≥ 3 , and (D) mMRC score ≥ 4 .