

Do symptom-based questions help screen COPD among Chinese populations?

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Supplement Table 1. The diagnostic accuracy of the previous eight-item questionnaire

Cut-point	Sensitivity (%)	Specificity (%)	Youden's index	LR+	LR-
>= 0	100.00	0.00	0.00	1	
>= 1	100.00	0.17	0.17	1.0017	0
>= 2	100.00	0.95	0.95	1.0096	0
>= 3	100.00	1.06	1.06	1.0107	0
>= 4	100.00	1.75	1.75	1.0178	0
>= 5	99.59	7.19	6.78	1.073	0.0568
>= 6	98.98	11.33	10.31	1.1162	0.0901
>= 7	98.57	12.82	11.39	1.1307	0.1114
>= 8	98.16	14.52	12.68	1.1483	0.1265
>= 9	95.10	30.99	26.09	1.378	0.1581
>= 10	93.67	35.61	29.28	1.4549	0.1776
>= 11	92.86	38.52	31.38	1.5103	0.1854
>= 12	91.63	41.79	33.42	1.5743	0.2002
>= 13	84.49	55.88	40.37	1.9149	0.2776
>= 14	81.84	59.10	40.94	2.0008	0.3073
>= 15	80.20	63.32	43.52	2.1868	0.3126
>= 16	76.33	67.78	44.11	2.3688	0.3493
>= 17	67.76	76.83	44.59	2.9246	0.4197
>= 18	64.29	78.93	43.22	3.0512	0.4525
>= 19	60.00	83.73	43.73	3.688	0.4777
>= 20	52.04	87.24	39.28	4.0777	0.5498
>= 21	44.49	90.89	35.38	4.8826	0.6108
>= 22	41.43	92.41	33.84	5.4595	0.6338
>= 23	32.86	95.52	28.38	7.3276	0.7029
>= 24	25.92	97.13	23.05	9.017	0.7627
>= 25	23.06	97.64	20.70	9.7841	0.788
>= 26	13.88	98.68	12.56	10.4956	0.8728
>= 27	11.43	98.94	10.37	10.746	0.8952
>= 28	8.78	99.20	7.98	10.9035	0.9196
>= 29	7.55	99.31	6.86	10.9459	0.9309
>= 30	3.47	99.71	3.18	12.0701	0.9681
>= 31	2.04	99.83	1.87	11.8334	0.9813
>= 32	1.84	99.89	1.73	15.9751	0.9828
>= 33	1.22	99.91	1.13	14.2007	0.9886
>= 34	0.82	99.97	0.79	28.4039	0.9921
>= 35	0.61	99.97	0.58	21.3029	0.9942
>= 36	0.61	100.00	0.61		0.9939
> 36	0.00	100.00	0.00		1

Supplement Table 2. The diagnostic accuracy of the revised symptom-based questionnaire

Cut-point	Sensitivity (%)	Specificity (%)	Youden's index	LR+	LR-
>= 0	100.00	0.00	0.00	1	
>= 1	100.00	0.17	0.17	1.0017	0
>= 2	100.00	1.32	1.32	1.0134	0
>= 3	100.00	1.49	1.49	1.0152	0
>= 4	99.80	2.76	2.56	1.0263	0.074
>= 5	99.59	8.65	8.24	1.0902	0.0472
>= 6	98.78	12.53	11.31	1.1293	0.0977
>= 7	98.78	14.83	13.61	1.1598	0.0826
>= 8	98.57	17.65	16.22	1.197	0.0809
>= 9	97.55	29.38	26.93	1.3813	0.0834
>= 10	97.14	34.69	31.83	1.4875	0.0824
>= 11	96.73	38.00	34.73	1.5602	0.0859
>= 12	95.71	42.60	38.31	1.6675	0.1006
>= 13	93.47	52.80	46.27	1.9804	0.1237
>= 14	92.24	57.43	49.67	2.1669	0.135
>= 15	90.61	61.05	51.66	2.3265	0.1538
>= 16	87.55	64.76	52.31	2.4844	0.1922
>= 17	82.45	72.87	55.32	3.0386	0.2409
>= 18	78.98	76.11	55.09	3.3065	0.2762
>= 19	74.69	79.97	54.66	3.7283	0.3165
>= 20	68.37	83.67	52.04	4.1875	0.378
>= 21	62.45	86.89	49.34	4.7645	0.4322
>= 22	57.76	89.13	46.89	5.3156	0.4739
>= 23	53.06	91.26	44.32	6.0724	0.5143
>= 24	48.78	93.68	42.46	7.7132	0.5468
>= 25	42.65	95.11	37.76	8.7288	0.6029
>= 26	37.55	96.15	33.70	9.7492	0.6495
>= 27	31.22	97.38	28.60	11.9373	0.7062
>= 28	24.69	98.07	22.76	12.8224	0.7678
>= 29	21.84	98.45	20.29	14.0685	0.794
>= 30	18.16	98.99	17.15	18.0543	0.8267
>= 31	14.29	99.22	13.51	18.4074	0.8638
>= 32	11.43	99.43	10.86	19.8801	0.8908
>= 33	8.16	99.74	7.90	31.5553	0.9207
>= 34	4.49	99.83	4.32	26.0335	0.9568
>= 35	3.27	99.83	3.10	18.9334	0.969
>= 36	2.04	99.89	1.93	17.7501	0.9807
>= 37	0.61	99.94	0.55	10.6501	0.9944
>= 40	0.20	100.00	0.20		0.998
> 40	0.00	100.00	0.00		1