

Table 4: DCO protocol items, means and coefficients: I

type†	item	obs	adherence	corr‡	α	β
G: comm	Tell the patient his or her diagnosis (any name)	1095	32.6%	0.5315*		
G: comm	Explain the diagnosis (in common language)	1095	41.1%	0.5019*		
G: comm	Explain the treatment being provided	1095	54.2%	0.3916*		
G: comm	Give any health education related to diagnosis?	1095	36.3%	0.4598*		
G: comm	Explain whether or not to return for further treatment	1095	24.5%	0.3207*		
G: HT: diag	Duration of primary symptom?	1095	81.6%	0.2326*	0.295 (0.098)*	-2.022(0.134)
G: HT: diag	If there are other associated symptoms?	1095	52.9%	0.2517*	0.155 (0.066)*	-0.474(0.090)
G: HT: diag	If received treatment elsewhere or taken medicines	1095	33.7%	0.1947*	0.078 (0.064)	0.408 (0.089)
F: HT: diag	pattern (periodicity) of fever?	321	89.4%	0.2161*	0.096 (0.073)	-1.739(0.118)
F: HT: diag	presence of chills, sweats?	321	8.4%	0.2514*	0.467 (0.118)*	-1.237(0.141)
F: HT: diag	presence of cough, sore throat, pain during swallowing	321	31.2%	0.0294	-0.623(0.240)*	-1.921(0.235)
F: HT: diag	presence of diarrhea or vomiting?	321	38.0%	0.0952*	0.366 (0.335)	2.027 (0.266)
C: HT: diag	The duration of cough	383	85.4%	0.1438*	0.669 (0.206)*	0.214 (0.188)
C: HT: diag	Sputum production or dry cough	383	23.2%	0.1986*	0.196 (0.160)	0.158 (0.155)
C: HT: diag	Presence of chest pain	383	28.7%	0.1455*	0.856 (0.230)*	-0.780(0.224)
C: HT: diag	Presence of difficulty in breathing	383	32.6%	0.2257*	0.430 (0.157)*	-1.014(0.168)
D: HT: diag	frequency of stools?	80	76.3%	0.2380*	1.956 (0.472)*	-0.664(0.438)
D: HT: diag	consistency of stools?	80	58.8%	0.3050*	2.524 (0.573)*	-0.711(0.539)
D: HT: diag	presence of blood and/or mucus in stools?	80	36.3%	0.2214*	2.020 (0.473)*	0.991 (0.432)
D: HT: diag	presence of vomiting?	80	57.5%	0.0603	0.304 (0.160)*	0.931 (0.172)
D: HT: diag	presence of fever?	80	67.5%	0.1480*	0.191 (0.118)	-2.224(0.208)
O: HT: diag	Take history according to symptoms?	469	74.6%	0.0189	0.149 (0.130)	0.851 (0.163)

†: F (fever), C (cough), D (diarrhea), or G (general) and HT (history taking), PE (physical examination), and comm (communication item), or diag (diagnostic item).

‡: Correlation between adherence for this item and adherence for all items.

* : significant at 10%, standard errors in parentheses.

α : Discrimination parameter, larger values imply that doctors with higher scores are more likely to get the item correct.

β : Difficulty parameter, larger values imply that all doctors are less likely to get the item correct. Significance not reported because the null hypothesis for β is not defined.

Table 5: DCO protocol items, means and coefficients: II

type†	item	obs	adherence	corr‡	α	β
F: PE: diag	Perform general physical examination, inspection	321	48.6%	0.2562*	0.891 (0.220)*	-0.549(0.225)
F: PE: diag	checks temperature with thermometer	321	60.7%	0.1744*	0.805 (0.249)*	1.294 (0.229)
F: PE: diag	checks for anemia	321	32.7%	0.2677*	0.655 (0.176)*	-0.049(0.189)
F: PE: diag	checks ear/throat	321	29.6%	0.3862*	2.263 (0.516)*	-0.315(0.481)
F: PE: diag	palpates for the spleen	321	11.8%	0.0852*	0.020 (0.101)	-1.185(0.154)
F: PE: diag	order a blood slide	321	19.3%	0.1594*	-0.037(0.081)	0.540 (0.135)
C: PE: diag	Perform general physical examination, inspection	383	39.4%	0.1222*	0.264 (0.127)*	0.461 (0.156)
C: PE: diag	Count respiratory rate	383	11.0%	0.3946*	1.443 (0.486)*	-2.996(0.546)
C: PE: diag	Observe breathing for chest indrawing	383	32.4%	0.4289*	1.225 (0.462)*	-1.724(0.468)
C: PE: diag	Examine throat	383	23.5%	0.3383*	0.787 (0.395)*	-0.299(0.359)
C: PE: diag	Auscultate the chest	383	71.8%	0.2575*	0.393 (0.280)	-0.954(0.338)
C: PE: diag	Take the patient's temperature	383	32.9%	0.2171*	0.344 (0.278)	-1.282(0.348)
D: PE: diag	Perform general physical examination, inspection	80	38.8%	0.2110*	0.337 (0.137)*	0.218 (0.157)
D: PE: diag	assesses general status (alert or lethargic)	80	70.0%	0.2590*	0.808 (0.431)*	-0.427(0.434)
D: PE: diag	examine for sunken front fontanelle/eyes	80	46.3%	0.4838*	2.391 (0.933)*	-3.537(1.035)
D: PE: diag	pinches abdominal skin to assess degree of dehydration	80	42.5%	0.3255*	1.212 (0.400)*	-1.021(0.381)
D: PE: diag	takes weight (in case of a child below 5 years)	80	21.3%	0.2110*	0.562 (0.348)	-0.444(0.348)
D: PE: diag	takes temperature	80	37.5%	0.2390*	1.006 (0.595)*	0.180 (0.447)
G: PE: diag	Physical Examination is according to the symptoms	469	62.5%	0.3530*	0.442 (0.285)	-0.030(0.330)

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* : significant at 10%, standard errors in parentheses.

α : Discrimination parameter, larger values imply that doctors with higher scores are more likely to get the item correct.

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Table 6: Vignette protocol items, means and coefficients

type†	item	obs	adherence	corr‡	α	β
F: HT	Pattern of fever	122	77.0%	0.3277*	0.568 (0.244)*	-1.476(0.343)
F: HT	Treatment received	122	42.6%	0.2060*	0.215 (0.132)*	0.297 (0.204)
F: HT	History of cough	122	33.6%	0.4042*	0.526 (0.169)*	0.735 (0.260)
F: HT	Convulsions	122	5.7%	0.3815*	0.831 (0.301)*	3.321 (0.587)
F: HT	Appetite	122	29.5%	0.4814*	0.790 (0.247)*	1.130 (0.325)
F: HT	Level of consciousness	122	5.7%	0.3574*	0.722 (0.348)*	3.355 (0.669)
F: PE	Temperature	122	87.7%	0.1590*	0.276 (0.226)	-2.111(0.334)
F: PE	Signs of dehydration	122	9.0%	0.2168*	0.342 (0.302)	2.646 (0.440)
F: PE	Signs of anemia	122	15.6%	0.4516*	0.722 (0.260)*	1.949 (0.386)
F: PE	Signs of heart failure	122	4.1%	0.2793*	0.250 (0.276)	3.103 (0.480)
F: PE	Neck stiffness	122	1.6%	0.0863		
C: HT	Duration of cough	122	80.3%	0.3689*	1.318 (0.433)*	-2.413(0.694)
C: HT	Sputum production	122	51.6%	0.3356*	0.261 (0.144)*	-0.044(0.207)
C: HT	Presence of Blood	122	14.8%	0.3411*	0.386 (0.202)*	1.948 (0.326)
C: HT	Chest Pain	122	36.1%	0.2880*	0.168 (0.132)	0.489 (0.203)
C: HT	Presence of Fever	122	73.0%	0.2906*	0.212 (0.165)	-0.944(0.226)
C: HT	difficulty breathing	122	61.5%	0.3953*	0.340 (0.148)*	-0.602(0.225)
C: PE	Respiratory rate	122	9.0%	0.4188*	0.682 (0.244)*	2.689 (0.451)
C: PE	Chest Indrawing	122	29.5%	0.2727*	0.214 (0.150)	0.819 (0.219)
C: PE	Auscultate the chest	122	82.0%	0.3662*	0.547 (0.237)*	-1.703(0.350)
C: PE	Take temperature	122	68.9%	0.3324*	0.367 (0.173)*	-0.866(0.247)
D: HT	Frequency of stools	122	61.5%	0.2688*	0.239 (0.143)*	-0.574(0.213)
D: HT	Consistency of stools	122	48.4%	0.3142*	0.155 (0.130)	0.114 (0.196)
D: HT	Presence of blood, mucus	122	27.0%	0.3984*	0.371 (0.154)*	1.180 (0.252)
D: HT	Presence of vomiting	122	75.4%	0.4029*	1.220 (0.377)*	-1.994(0.525)
D: HT	Projectile or non-projectile	122	8.2%	0.118	-0.283(0.288)	2.530 (0.404)
D: HT	Presence of fever	122	55.7%	0.3026*	0.202 (0.137)	-0.110(0.200)
D: HT	Breastfeeding	122	29.5%	0.3136*	0.344 (0.148)*	0.837 (0.233)
D: PE	General status	122	42.6%	0.4928*	1.247 (0.367)*	0.375 (0.424)
D: PE	Check eyes	122	59.8%	0.4424*	1.394 (0.394)*	-0.748(0.485)
D: PE	Pinch and skin	122	54.9%	0.4524*	1.088 (0.322)*	-0.292(0.392)
D: PE	Takes weight	122	24.6%	0.3295*	0.622 (0.202)*	1.111 (0.299)

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