

Appendix G – Subgroup analyses

Table 1. Overview of subgroup analysis results.

Analysis	Number of trials	Effect estimate (95% CI)	Heterogeneity (I^2)	Subgroup differences (Q)
Case difficulty: simple	6	0.23 (-0.02-0.48)	$I^2 = 41\%$, $\chi^2(5) = 8.52$, $p = 0.130$	$Q(1) = 0.12$, $p = 0.730$
Case difficulty: complex	9	0.27 (0.14-0.41)	$I^2 = 0\%$, $\chi^2(8) = 6.91$, $p = 0.550$	
Diagnostic task: patient (actors)	2	0.41 (0.33-0.49)	$I^2 = 0\%$, $\chi^2(1) = 0$, $p = 0.970$	$Q(2) = 22.10$, $p < 0.001$
Diagnostic task: visual diagnosis	7	0.25 (0.01-0.50)	$I^2 = 28\%$, $\chi^2(6) = 8.35$, $p = 0.210$	
Diagnostic task: written clinical vignettes	17	0.16 (0.05-0.28)	$I^2 = 45\%$, $\chi^2(16) = 28.81$, $p = 0.030$	
Expertise: novice (medical students)	10	0.22 (-0.01-0.44)	$I^2 = 58\%$, $\chi^2(9) = 21.58$, $p = 0.010$	$Q(2) = 0.15$, $p = 0.929$

Expertise: intermediate (residents, fellows)	13	0.23 (0.14-0.32)	$I^2 = 0\%$, $\chi^2(12) = 6.69$, $p = 0.880$	
Expertise: expert (faculty, specialists)	3	0.19 (-0.29-0.66)	$I^2 = 0\%$, $\chi^2(2) = 1.12$, $p = 0.570$	
Intention: evaluate tool performance	22	0.18 (0.07-0.28)	$I^2 = 42\%$, $\chi^2(21) = 36.41$, $p = 0.020$	$Q(1) = 1.45$, $p = 0.229$
Intention: fix induced errors with tool	4	0.30 (0.03-0.57)	$I^2 = 0\%$, $\chi^2(3) = 2.00$, $p = 0.570$	
Intervention (1): checklists	11	0.12 (0.01-0.21)	$I^2 = 0\%$, $\chi^2(10) = 4.33$, $p = 0.930$	$Q(1) = 0.55$, $p = 0.460$
Intervention (2): guided reflection	11	0.19 (0.02-0.36)	$I^2 = 63\%$, $\chi^2(10) = 26.72$, $p < 0.001$	
Intervention (2): content	24	0.21 (0.11-0.31)	$I^2 = 40\%$, $\chi^2(23) = 38.16$, $p = 0.020$	$Q(1) = 1.94$, $p = 0.163$

Intervention (2): process	3	0.12 (-0.07-0.35)	$I^2 = 0\%$, $\chi^2(2) = 0.49$, $p = 0.780$	
Intervention moment: during initial diagnosis	10	0.15 (-0.05-0.35)	$I^2 = 61\%$, $\chi^2(9) = 22.80$, $p = 0.010$	$Q(1) = 0.29$, $p = 0.593$
Intervention moment: verification after initial diagnosis	16	0.20 (0.11-0.30)	$I^2 = 3\%$, $\chi^2(15) = 15.47$, $p = 0.420$	
Intervention items: acknowledge	10	0.22 (0.09-0.36)	$I^2 = 0\%$, $\chi^2(9) = 8.60$, $p = 0.480$	$Q(1) = 0.16$, $p = 0.691$
Intervention items: report	16	0.19 (0.05-0.33)	$I^2 = 50\%$, $\chi^2(15) = 30.21$, $p = 0.010$	
Same cases used with and without intervention: yes	12	0.14 (0.03-0.24)	$I^2 = 0\%$, $\chi^2(11) = 10.14$, $p = 0.520$	$Q(1) = 1.59$, $p = 0.207$
Same cases used with and without intervention: yes	14	0.25 (0.09-0.40)	$I^2 = 56\%$, $\chi^2(12) = 29.30$, $p < 0.010$	