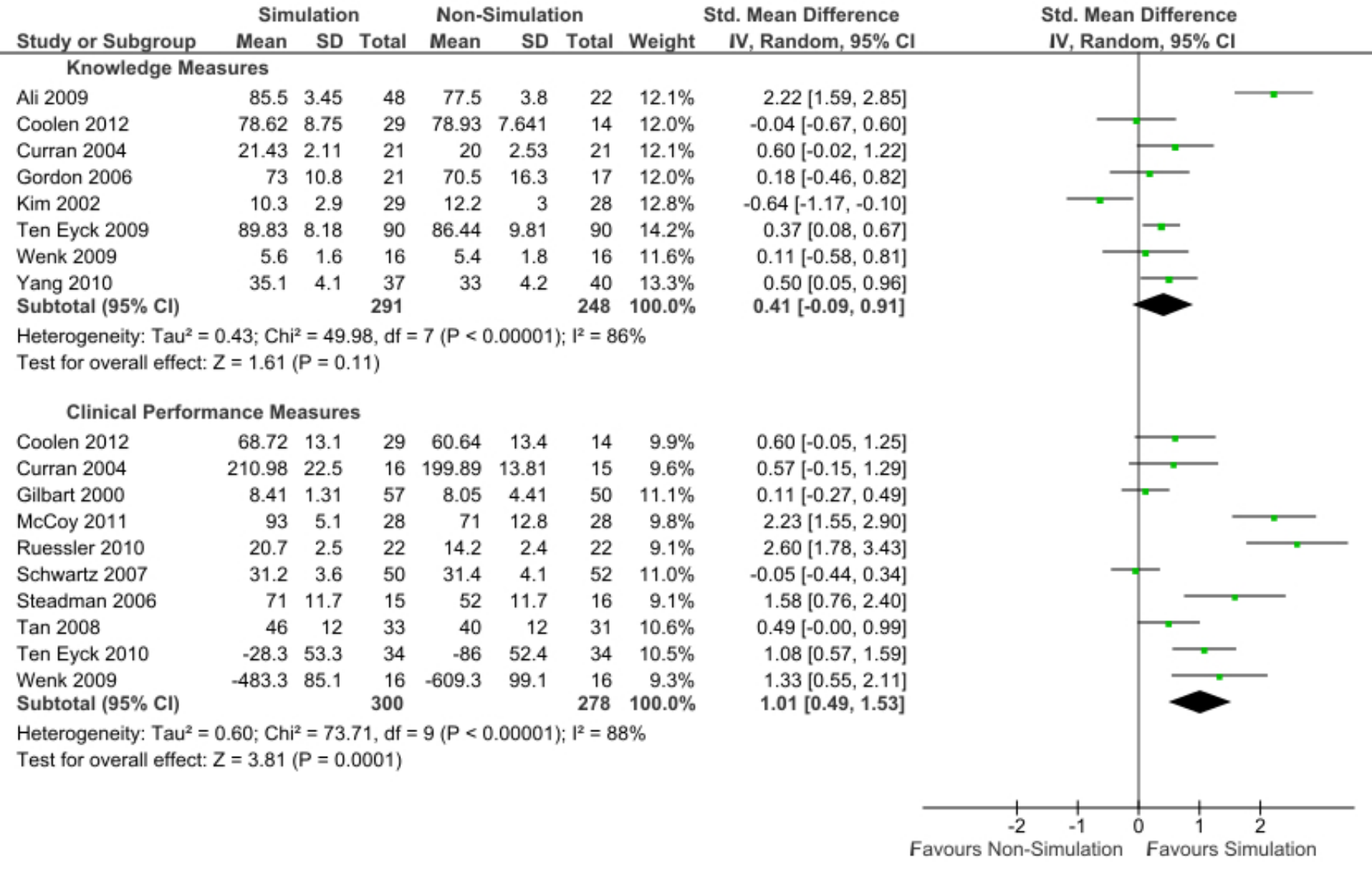
Simulation
Non-Simulation
Std. Mean Difference
Std. Mean Difference
Study or Subgroup Mean SD Total Mean SD Total Weight IV, Random, 95% CI
IV, Random, 95% CI
Knowledge Measures
Ali 2009 85.5 3.45 48 77.5 3.8 22 12.1% 2.22 [1.59, 2.85]
Coolen 2012 78.62 8.75 29 78.93 7.641 14 12.0% -0.04 [-0.67, 0.60]
Curran 2004 21.43 2.11 21 20 2.53 21 12.1% 0.60 [-0.02, 1.22]
Gordon 2006 73 10.8 21 70.5 16.3 17 12.0% 0.18 [-0.46, 0.82]
Kim 2002 10.3 2.9 29 12.2 3 28 12.8% -0.64 [-1.17, -0.10]
Ten Eyck 2009 89.83 8.18 90 86.44 9.81 90 14.2% 0.37 [0.08, 0.67]
Wenk 2009 5.6 1.6 16 5.4 1.8 16 11.6% 0.11 [-0.58, 0.81]
Yang 2010 35.1 4.1 37 33 4.2 40 13.3% 0.50 [0.05, 0.96]
Subtotal (95% CI) 291 248 100.0% 0.41 [-0.09, 0.91]
Heterogeneity: Tau² = 0.43; Chi² = 49.98, df = 7 (P < 0.00001); I² = 86%
Test for overall effect: Z = 1.61 (P = 0.11)
Clinical Performance Measures
Coolen 2012 68.72 13.1 29 60.64 13.4 14 9.9% 0.60 [-0.05, 1.25]
Curran 2004 210.98 22.5 16 199.89 13.81 15 9.6% 0.57 [-0.15, 1.29]
Gilbart 2000 8.41 1.31 57 8.05 4.41 50 11.1% 0.11 [-0.27, 0.49]
McCoy 2011 93 5.1 28 71 12.8 28 9.8% 2.23 [1.55, 2.90]
Ruessler 2010 20.7 2.5 22 14.2 2.4 22 9.1% 2.60 [1.78, 3.43]
Schwartz 2007 31.2 3.6 50 31.4 4.1 52 11.0% -0.05 [-0.44, 0.34]
Steadman 2006 71 11.7 15 52 11.7 16 9.1% 1.58 [0.76, 2.40]
Tan 2008 46 12 33 40 12 31 10.6% 0.49 [-0.00, 0.99]
Ten Eyck 2010 -28.3 53.3 34 -86 52.4 34 10.5% 1.08 [0.57, 1.59]
Wenk 2009 -483.3 85.1 16 -609.3 99.1 16 9.3% 1.33 [0.55, 2.11]
Subtotal (95% CI) 300 278 100.0% 1.01 [0.49, 1.53]
Heterogeneity: Tau² = 0.60; Chi² = 73.71, df = 9 (P < 0.00001); I² = 88%
Test for overall effect: Z = 3.81 (P = 0.0001)
-2
-1
0
1
2
Favours Non-Simulation
Favours Simulation