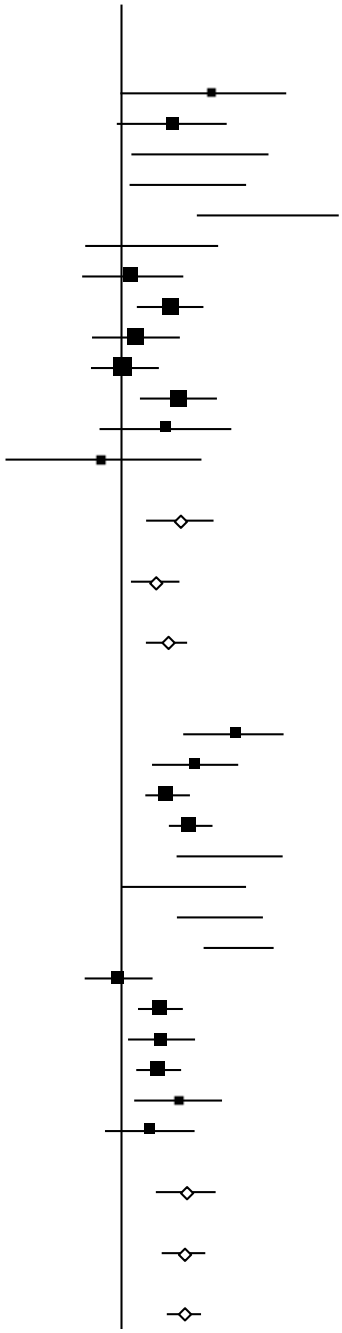
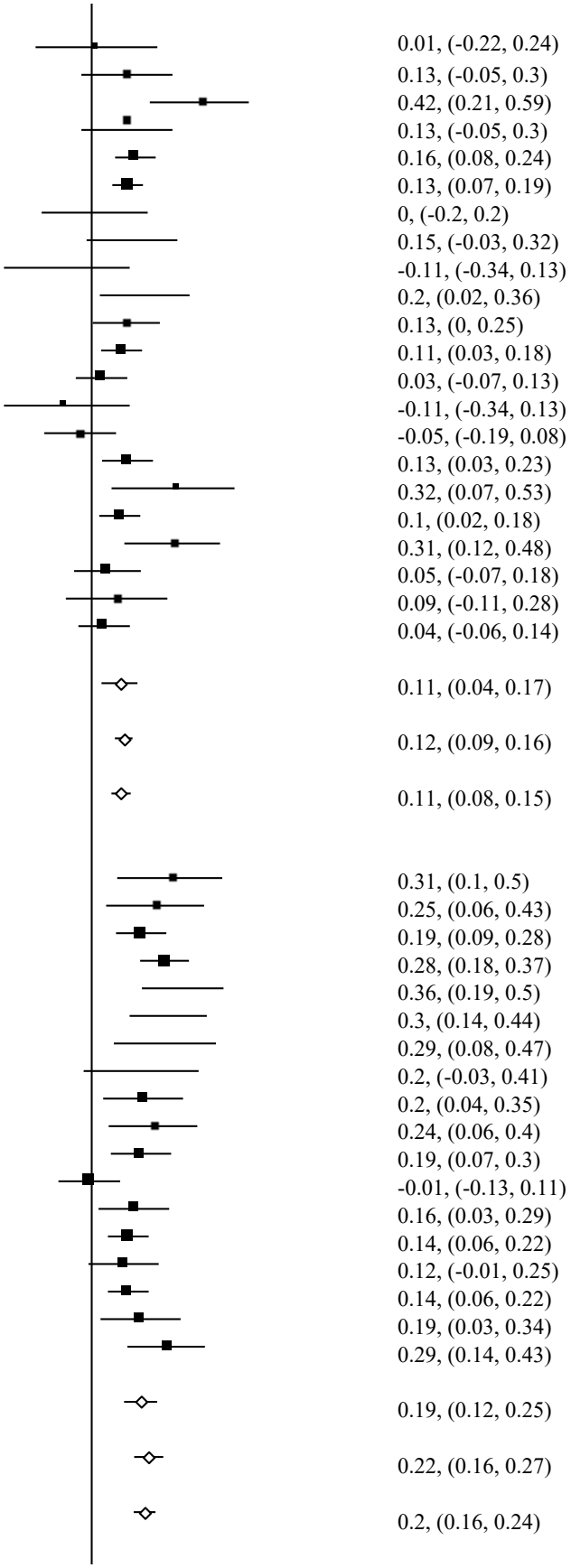
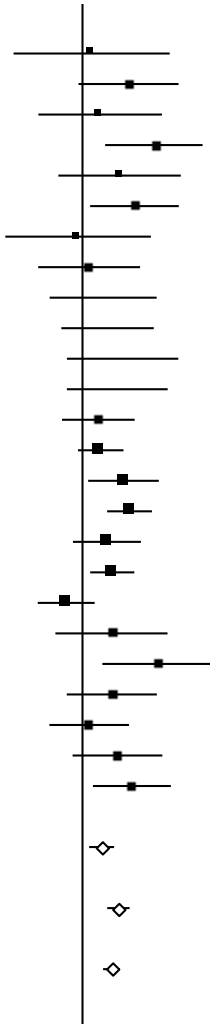
Supplemental Figure 1. Forest plot of intercept (baseline) associations between pulmonary functioning and cognition



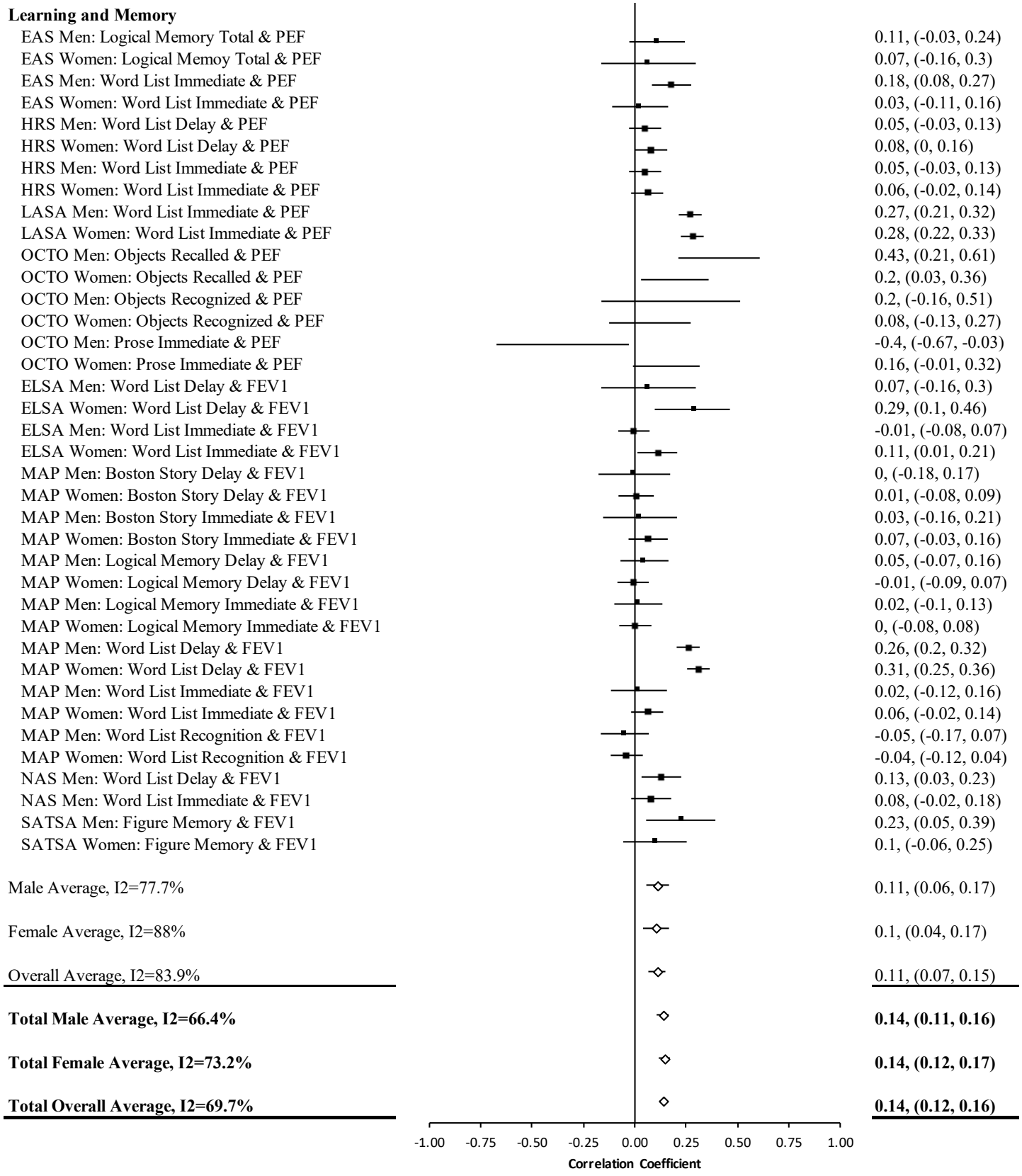
Estimate Characteristics	R (95% CI)
Mental Status	
EAS Men: BIMC & PEF	0.31, (0, 0.57)
EAS Women: BIMC & PEF	0.18, (-0.02, 0.36)
OCTO Men: Clock & PEF	0.29, (0.03, 0.51)
OCTO Women: Clock & PEF	0.24, (0.03, 0.43)
OCTO Men: MMSE & PEF	0.55, (0.26, 0.75)
OCTO Women: MMSE & PEF	0.11, (-0.13, 0.33)
MAP Men: Ideas & FEV1	0.04, (-0.14, 0.21)
MAP Women: Ideas & FEV1	0.17, (0.05, 0.28)
MAP Men: MMSE & FEV1	0.05, (-0.1, 0.2)
MAP Women: MMSE & FEV1	0.01, (-0.11, 0.13)
NAS Men: MMSE & FEV1	0.2, (0.06, 0.33)
SATSA Men: MMSE & FEV1	0.16, (-0.08, 0.38)
SATSA Women: MMSE & FEV1	-0.07, (-0.4, 0.28)
Male Average, I2=57.4%	0.2, (0.08, 0.32)
Female Average, I2=26.5%	0.12, (0.03, 0.2)
Overall Average, I2=46.1%	0.16, (0.08, 0.23)
Processing Speed	
EAS Men: Digit Symbol & PEF	0.4, (0.21, 0.56)
EAS Women: Digit Symbol & PEF	0.26, (0.11, 0.4)
LASA Men: Coding & PEF	0.16, (0.08, 0.24)
LASA Women: Coding & PEF	0.24, (0.16, 0.31)
OCTO Men: Perceptual Speed & PEF	0.39, (0.19, 0.56)
OCTO Women: Perceptual Speed & PEF	0.23, (0, 0.43)
OCTO Men: Symbol & PEF	0.35, (0.19, 0.49)
OCTO Women: Symbol & PEF	0.41, (0.28, 0.52)
MAP Men: Number Comparison & FEV1	-0.01, (-0.13, 0.11)
MAP Women: Number Comparison & FEV1	0.14, (0.06, 0.21)
MAP Men: Symbol & FEV1	0.14, (0.02, 0.25)
MAP Women: Symbol & FEV1	0.13, (0.05, 0.21)
SATSA Men: Symbol & FEV1	0.2, (0.04, 0.35)
SATSA Women: Symbol & FEV1	0.1, (-0.06, 0.25)
Male Average, I2=77.3%	0.22, (0.12, 0.32)
Female Average, I2=70%	0.22, (0.14, 0.29)
Overall Average, I2=72.1%	0.22, (0.16, 0.27)


Attention & Working Memory
EAS Men: Digit Span Total & PEF
0.01, (-0.22, 0.24)
EAS Women: Digit Span Total & PEF
0.13, (-0.05, 0.3)
EAS Men: Trails B & PEF
0.42, (0.21, 0.59)
EAS Women: Trails B & PEF
0.13, (-0.05, 0.3)
HRS Men: Serial 7s & PEF
0.16, (0.08, 0.24)
HRS Women: Serial 7s & PEF
0.13, (0.07, 0.19)
OCTO Men: Digit Span Backward & PEF
0, (-0.2, 0.2)
OCTO Women: Digit Span Backward & PEF
0.15, (-0.03, 0.32)
OCTO Men: DigitSpan Forward & PEF
-0.11, (-0.34, 0.13)
OCTO Women: DigitSpan Forward & PEF
0.2, (0.02, 0.36)
MAP Men: Digit Span Backward & FEV1
0.13, (0, 0.25)
MAP Women: Digit Span Backward & FEV1
0.11, (0.03, 0.18)
MAP Men: DigitSpan Forward & FEV1
0.03, (-0.07, 0.13)
MAP Women: DigitSpan Forward & FEV1
-0.11, (-0.34, 0.13)
MAP Men: Digit Ordering & FEV1
-0.05, (-0.19, 0.08)
MAP Women: Digit Ordering & FEV1
0.13, (0.03, 0.23)
NAS Men: Digit Span Backward - Total & FEV1
0.32, (0.07, 0.53)
NAS Men: Digit Span Backward - Span & FEV1
0.1, (0.02, 0.18)
SATSA Men: Digit Span Backward & FEV1
0.31, (0.12, 0.48)
SATSA Women: Digit Span Backward & FEV1
0.05, (-0.07, 0.18)
SATSA Men: DigitSpan Forward & FEV1
0.09, (-0.11, 0.28)
SATSA Women: DigitSpan Forward & FEV1
0.04, (-0.06, 0.14)
Male Average, I2=61.8%
0.11, (0.04, 0.17)
Female Average, I2=0%
0.12, (0.09, 0.16)
Overall Average, I2=41.2%
0.11, (0.08, 0.15)
Perceptual Reasoning
EAS Men: Block Design & PEF
0.31, (0.1, 0.5)
EAS Women: Block Design & PEF
0.25, (0.06, 0.43)
LASA Men: Progressive Matrices & PEF
0.19, (0.09, 0.28)
LASA Women: Progressive Matrices & PEF
0.28, (0.18, 0.37)
OCTO Men: Block Design & PEF
0.36, (0.19, 0.5)
OCTO Women: Block Design & PEF
0.3, (0.14, 0.44)
OCTO Men: Figure Reasoning & PEF
0.29, (0.08, 0.47)
OCTO Women: Figure Reasoning & PEF
0.2, (-0.03, 0.41)
SATSA Men: Block Design & FEV1
0.2, (0.04, 0.35)
SATSA Women: Block Design & FEV1
0.24, (0.06, 0.4)
NAS Men: Figure Copy & FEV1
0.19, (0.07, 0.3)
NAS Men: Pattern Completion & FEV1
-0.01, (-0.13, 0.11)
MAP Men: Line Orientation & FEV1
0.16, (0.03, 0.29)
MAP Women: Line Orientation & FEV1
0.14, (0.06, 0.22)
MAP Men: Progressive Matrices & FEV1
0.12, (-0.01, 0.25)
MAP Women: Progressive Matrices & FEV1
0.14, (0.06, 0.22)
SATSA Men: Card Rotations & FEV1
0.19, (0.03, 0.34)
SATSA Women: Card Rotations & FEV1
0.29, (0.14, 0.43)
Male Average, I2=51.3%
0.19, (0.12, 0.25)
Female Average, I2=38.3%
0.22, (0.16, 0.27)
Overall Average, I2=44.4%
0.2, (0.16, 0.24)



Verbal Abilities

EAS Men: Boston Naming Test & PEF	0.04, (-0.23, 0.3)
EAS Women: Boston Naming Test & PEF	0.17, (-0.01, 0.34)
EAS Men: Categories & PEF	0.07, (-0.14, 0.28)
EAS Women: Categories & PEF	0.26, (0.09, 0.42)
EAS Men: FAS & PEF	0.14, (-0.08, 0.34)
EAS Women: FAS & PEF	0.19, (0.03, 0.34)
EAS Men: Vocabulary & PEF	-0.01, (-0.26, 0.24)
EAS Women: Vocabulary & PEF	0.03, (-0.15, 0.2)
OCTO Men: Information & PEF	0.08, (-0.11, 0.26)
OCTO Women: Information & PEF	0.1, (-0.07, 0.25)
OCTO Men: Synonyms & PEF	0.15, (-0.05, 0.34)
OCTO Women: Synonyms & PEF	0.13, (-0.05, 0.3)
MAP Men: Boston Naming Test & FEV1	0.06, (-0.06, 0.19)
MAP Women: Boston Naming Test & FEV1	0.07, (-0.01, 0.15)
MAP Men: Categories & FEV1	0.15, (0.03, 0.27)
MAP Women: Categories & FEV1	0.17, (0.09, 0.25)
MAP Men: NART & FEV1	0.09, (-0.03, 0.21)
MAP Women: NART & FEV1	0.11, (0.03, 0.19)
NAS Men: Animals & FEV1	-0.05, (-0.15, 0.05)
SATSA Men: Analogies & FEV1	0.11, (-0.09, 0.3)
SATSA Women: Analogies & FEV1	0.27, (0.08, 0.44)
SATSA Men: Information & FEV1	0.11, (-0.05, 0.26)
SATSA Women: Information & FEV1	0.03, (-0.11, 0.17)
SATSA Men: Synonyms & FEV1	0.13, (-0.03, 0.28)
SATSA Women: Synonyms & FEV1	0.18, (0.04, 0.31)
Male Average, I2=59.9%	0.07, (0.03, 0.12)
Female Average, I2=13.7%	0.13, (0.09, 0.17)
Overall Average, I2=10.8%	0.11, (0.08, 0.14)



Note: Estimates were calculated using random-effects meta-analysis.