

**Results from linear regression models**  
**Supplementary table 1**

Variable	Regression coefficient (95% Confidence Interval)	p Value
<b>Dependent Variable: Word recall (Words t2-t1)</b>		
Sex: Male	-0.18 (-0.21, -0.14)	<0.0001
Female	Reference	.
Education: Higher	0.064 (-0.039, 0.166)	0.22
Intermediate	0.073 (-0.029, 0.176)	0.16
Lower	Reference	.
IRD present	0.004 (-0.053, 0.0609)	0.89
No IRD	Reference	.
Age per 10 years	-0.075 (-0.096, -0.055)	<0.0001
<b>Dependent Variable: Word recall (Words t2-t3)</b>		
Sex: Male	0.31 (0.28, 0.35)	<0.0001
Female	Reference	.
Education: Higher	-0.097 (-0.207, 0.013)	0.08
Intermediate	0.035 (-0.075, 0.145)	0.53
Lower	Reference	.
IRD present	-0.018 (-0.078, 0.043)	0.57
No IRD	Reference	.
Age per 10 years	0.3 (0.28, 0.33)	<0.0001
<b>Dependent Variable: Semantic fluency (Animal names)</b>		
Sex: Male	-0.72 (-0.89, -0.55)	<0.0001
Female	Reference	.
Education: Higher	5.12 (4.65, 5.58)	<0.0001
Intermediate	2.7 (2.23, 3.16)	<0.0001
Lower	Reference	.
IRD present	-0.35 (-0.61, -0.09)	0.008
No IRD	Reference	.
Age per 10 years	-1.39 (-1.48, -1.3)	<0.0001
<b>Dependent Variable: Incongruence (Stroop test)</b>		
Sex: Male	1.57 (1.26, 1.89)	<0.0001
Female	Reference	.
Education: Higher	-6.54 (-7.41, -5.68)	<0.0001
Intermediate	-3.59 (-4.45, -2.72)	<0.0001
Lower	Reference	.
IRD present	0.51 (0.03, 0.99)	0.04
No IRD	Reference	.
Age per 10 years	4.12 (3.95, 4.3)	0

Variable	Regression coefficient (95% Confidence Interval)	p Value
<b>Dependent Variable: Digit span backwards (length of sequence)</b>		
Sex: Male	0.045 (0.013, 0.076)	0.0053
Female	Reference	.
Education: Higher	0.68 (0.59, 0.76)	<0.0001
Intermediate	0.31 (0.22, 0.4)	<0.0001
Lower	Reference	.
IRD present	-0.044 (-0.093, 0.004)	0.07
No IRD	Reference	.
Age per 10 years	-0.24 (-0.26, -0.22)	<0.0001

Cognitive performance in inflammatory rheumatic disease (iRMD) and osteoarthritis (no iRMD reference group). Results from linear regression models with iRMD status, sex, age and education as covariates. Immediate word recall: Difference between recalled words (range 0 to 12) at time 1 (t1) and t2 (immediate recall). Delayed word recall: Difference between words at t2 (immediate recall) and t3 (delayed recall).