## CORRECTION



## Correction to: Bilingualism Is Associated with a Delayed Onset of Dementia but Not with a Lower Risk of Developing it: a Systematic Review with Meta-Analyses

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Correction to: Neuropsychology Review

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The original version of this article unfortunately contained the following mistakes.

- 1. In the **Results** section under the paragraph **Disease Severity**, the sentence "The PIs ranged between -0.47 and 0.57 MMSE points" should read -0.49 and 0.59 MMSE points.
- 2. In Figs. 3, 5, and 7, the labels "favour bilinguals" and "favours monolinguals" should be inverted. Therefore, it should be "favours monolinguals" and "favours bilinguals". Please see below for the correct figures.

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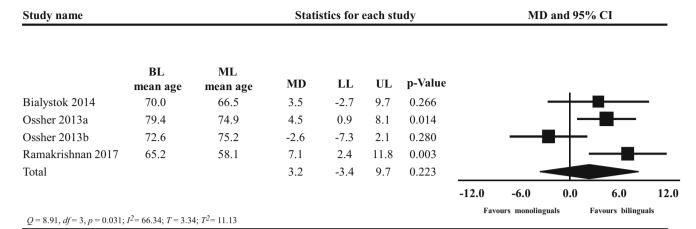


Fig. 3 Forest plot showing the mean difference (MD) in the age of MCI diagnosis between bilinguals (BL) and monolinguals (ML); MCI: Mild cognitive impairment; LL: lower limit, UP: upper limit; CI: confidence interval

| Group by<br>Diagnosis  | Study name     |                |                | Statistics for each study |      |                          |         | MD and 95% CI |               |             |     |     |
|--|----------------|----------------|----------------|---------------------------|------|--------------------------|---------|---------------|---------------|-------------|-----|-----|
| -  |                | BL<br>mean age | ML<br>mean age | MD                        | LL   | UL                       | p-Value |               |               |             |     |     |
| AD   | Bialystok 2014 | 78.2           | 70.9           | 7.3                       | 2.8  | 11.8                     | 0.001   |               |               |             |     |     |
| AD   | Chertkow 2010  | 77.6           | 76.7           | 0.9                       | -0.3 | 2.1                      | 0.143   |               |               | +==-        |     |     |
| AD   | Clare 2014     | 79.3           | 76.2           | 3.0                       | -0.4 | 6.4                      | 0.080   |               |               | +           |     |     |
| AD   | Craik 2010     | 80.8           | 76.5           | 4.3                       | 1.9  | 6.7                      | 0.000   |               |               | -           | _   |     |
| AD   | Perani 2017    | 77.1           | 71.4           | 5.7                       | 3.7  | 7.7                      | 0.000   |               |               |             | _   |     |
| AD   | Schweizer 2012 | 78.9           | 77.3           | 1.6                       | -3.0 | 6.2                      | 0.492   |               |               | <del></del> |     |     |
| AD   | Woumans 2015   | 77.3           | 72.5           | 4.8                       | 1.4  | 8.2                      | 0.005   |               |               | -           |     |     |
| AD   | Zheng 2018     | 74.4           | 67.5           | 6.9                       | 3.6  | 10.2                     | 0.000   |               |               |             |     | _   |
| AD: total  | •              |                |                | 4.2                       | 2.0  | 6.4                      | 0.002   |               |               | •           |     |     |
| Dementia   | Alladi 2013    | 68.1           | 63.4           | 4.7                       | 3.0  | 6.4                      | 0.000   |               |               |             | -   |     |
| Dementia   | Alladi 2017    | 64.2           | 61.0           | 3.2                       | 0.4  | 6.0                      | 0.023   |               |               |             |     |     |
| Dementia   | Bialystok 2007 | 78.6           | 75.4           | 3.2                       | 0.6  | 5.8                      | 0.014   |               |               | -           |     |     |
| Dementia   | Lawton 2015    | 81.1           | 79.3           | -1.8                      | -4.9 | 1.3                      | 0.257   |               |               |             |     |     |
| Dementia   | Ljungberg 2016 | 80.7           | 81.9           | -1.2                      | -5.0 | 2.6                      | 0.537   |               |               | -           | •   |     |
| Dementia: total  |                |                |                | 1.9                       | -0.9 | 4.7                      | 0.157   |               |               |             |     |     |
|  |                |                |                |                           |      |                          |         | -12.0         | -6.0          | 0.0         | 6.0 | 12. |
| $Q = 48.24$ , $df = 12$ , $p < .001$ ; $I^2 = 75.12$ ; $T = 2.20$ ; $T^2 = 4.83$ |                |                |                |                           |      | Favours monolinguals Fav |         |               | avours biling | uals        |     |     |

Fig. 5 Forest plot showing the mean difference (MD) in the subgroup meta-analysis comparing studies including participants with AD to studies including participants with dementia on the age of AD and

dementia diagnosis between bilinguals (BL) and monolinguals (ML); AD: Alzheimer's disease; LL: lower limit, UP: upper limit; CI: confidence interval



| Study name Statistics for | each study | Hedges's g and 95% CI |
|---------------------------|------------|-----------------------|
|---------------------------|------------|-----------------------|

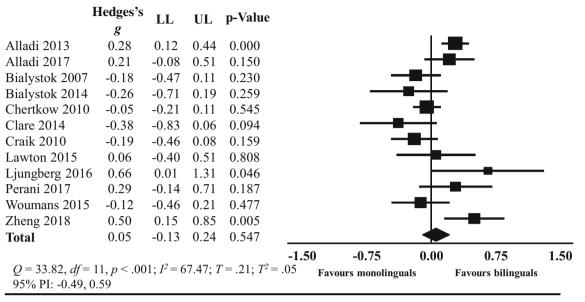


Fig. 7 Forest plot showing the standardized mean difference (Hedges's g) in the degree of disease severity at dementia diagnosis between bilinguals (BL) and monolinguals (ML); LL: lower limit, UP: upper limit; CI: confidence interval

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