

OPEN Author Correction: Validation of the Sleep Regularity Index in Older Adults and Associations with Cardiometabolic Risk

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Correction to: Scientific Reports https://doi.org/10.1038/s41598-018-32402-5, published online 21 September

The Article contains an error in Equation 3.

$$\frac{1440}{2\pi} \arctan 2 \left(\sum_{j=1}^{M} \sum_{i=1}^{M} s_{i,j} \sin \frac{2\pi t_i}{1440} + \sum_{j=1}^{M} \sum_{i=1}^{M} s_{i,j} \cos \frac{2\pi t_i}{1440} \right)$$

should read:

$$\frac{1440}{2\pi} \arctan 2 \left(\sum_{j=1}^{M} \sum_{i=1}^{M} s_{i,j} \sin \frac{2\pi t_i}{1440}, \sum_{j=1}^{M} \sum_{i=1}^{M} s_{i,j} \cos \frac{2\pi t_i}{1440} \right)$$

Additionally, the Article contains a typographical error in the Methods section under subheading 'Calculation of Sleep Regularity Index (SRI) and other sleep indices' where,

"Sleep midpoint, our index of sleep timing, was calculated as a mean of circular quantities (appropriate for time of day) using the following equation (3), where t_i denotes time of day in minutes at epoch j."

should read:

"Sleep midpoint, our index of sleep timing, was calculated as a mean of circular quantities (appropriate for time of day) using the following equation (3), where t_i denotes time of day in minutes at epoch j, and arctan 2(x, y)denotes the angle between (x, y) and the positive \dot{x} -axis."

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