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Adverse childhood experiences are associated with poor physical performance in adulthood: results from the Brazilian Longitudinal Study of Adult Health

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Background

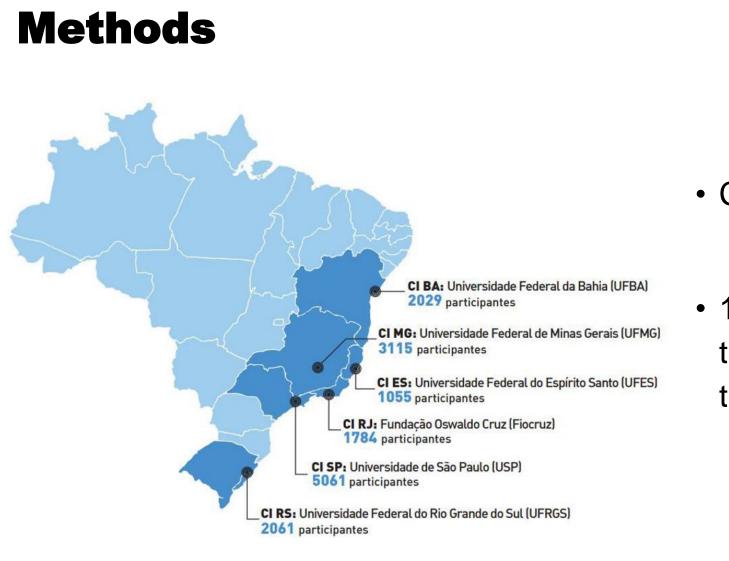


• Adverse childhood experiences (ACEs) associate with many chronic diseases and conditions during the life course.

• Little is known about associations with adulthood physical performance, especially in middle- and low-income countries.

• We investigated associations of ACEs, both individually and as a cumulative score, with adulthood physical performance.





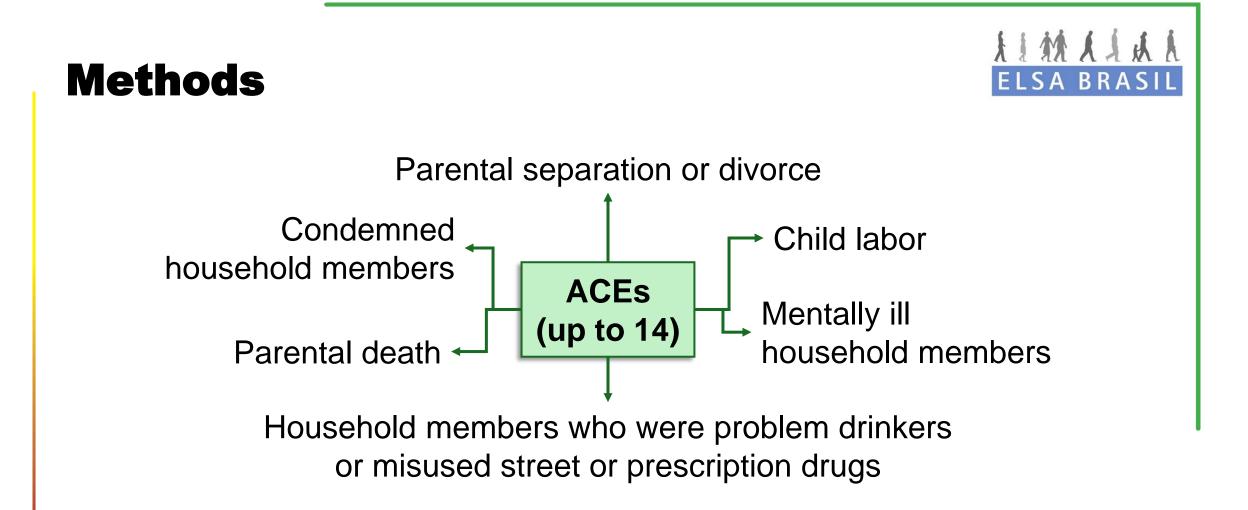
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• Cross-sectional analysis.

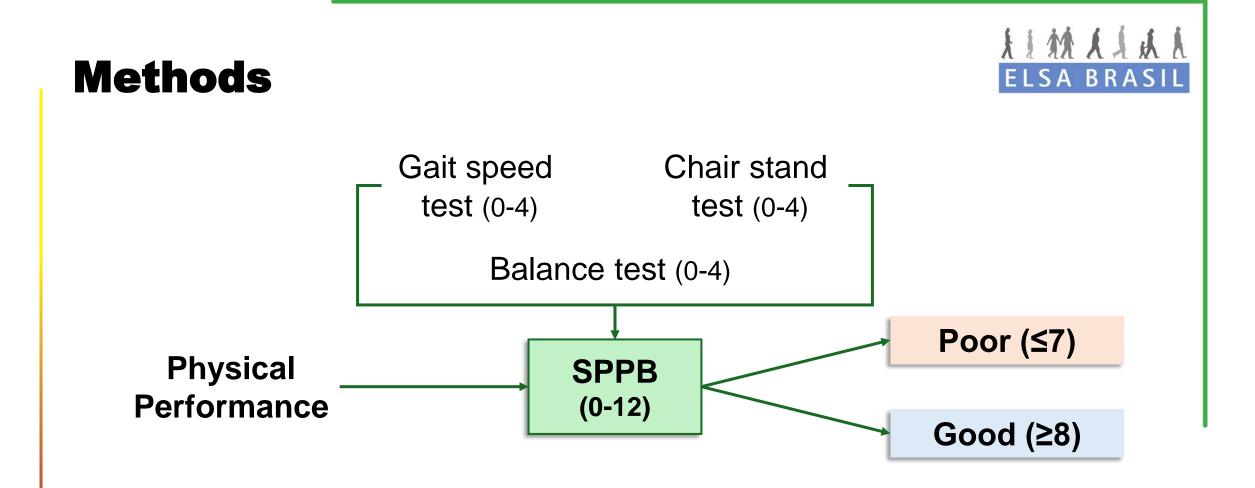
 10,896 workers from the third wave (2017–2019) of the ELSA-Brasil cohort.



Source: ELSA-Brasil Archives



ACEs were analysed individually and as a cumulative score (0, 1, 2 and ≥3).



 Binary logistic regression models were utilized, adjusted for age, sex, race, maternal education and paternal education.

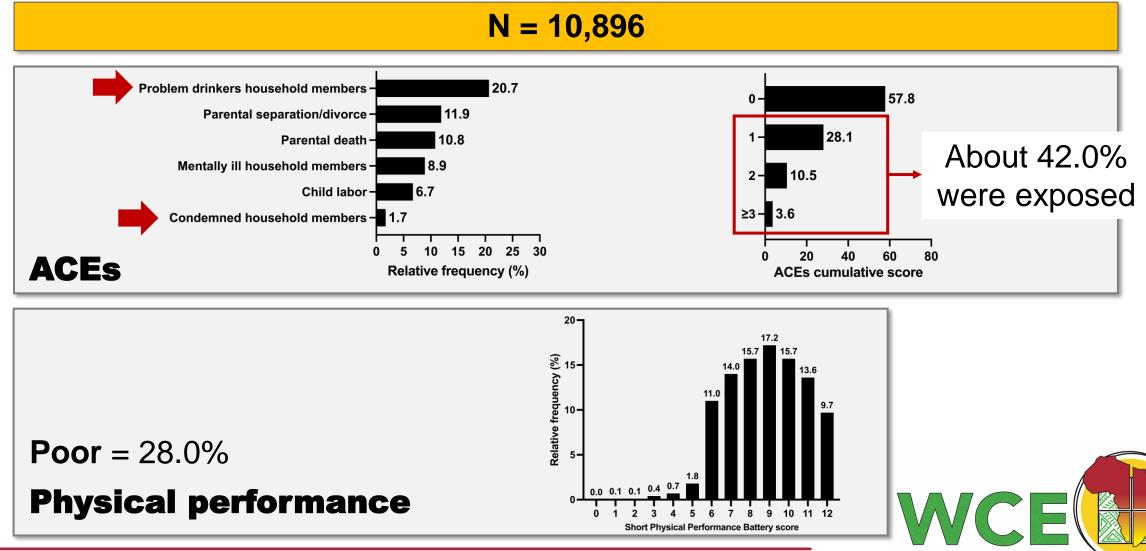
Results				ELSA BRASIL		
N = 10,896						
Age (years)		Se	Sex (%)			
Mean = 59.2; range = 41–84		M	Male = 44.9%; Female = 55.1% 🛑			
Maternal/Paternal education (%)				Race (%)		
High school or higher = 25.0 (M); 32.7 (P)			l	White/Asiatic = 58.4		
Elementary education = 19.2 (M); 19.7 (P)			l	Brown (Mixed) = 26.4		
Primary education = 43.0 (M); 39.1 (P)			l	Black/Indigenous = 15.2		
Not attended school = 12.8 (M); 8.5 (P)				WCE		

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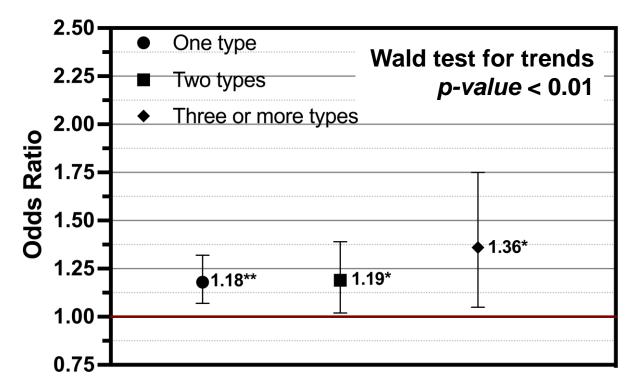
Results

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Results



Adjusted association between ACEs cumulative score and poor

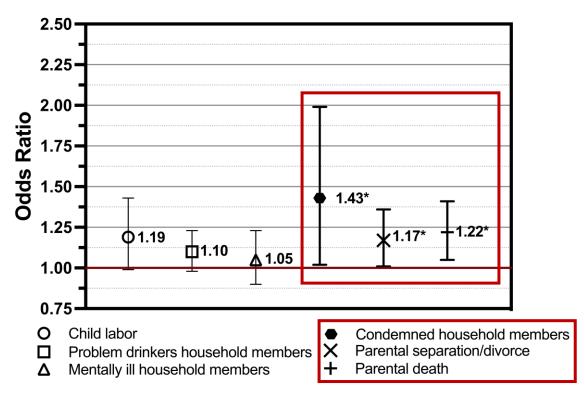
physical performance in adulthood

*p-value <0,05; **p-value <0,01; ***p-value <0,001



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Results



Adjusted associations between each ACE indicator and poor

physical performance in adulthood

*p-value <0,05; **p-value <0,01; ***p-value <0,001



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Conclusions



 Our results demonstrate that there is an association between adverse childhood experiences and poor physical performance in adulthood;

 Reducing the risk of poor physical performance in adulthood and exposure to childhood adversities involves interventions targeting the structures that produce unemployment, poverty, and violence in households and communities.



