





Children's need for physical activity in physical education – a cross-sectional survey of primary school teachers

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Introduction & Study aim

Physical activity (PA) is important for children's development and is associated with many positive effects (e.g. better academic performance) (Timmons et al., 2007; Tremblay et al., 2011). Especially before the onset of adolescence PA has a great impact on children's health. At this time, children are said to have a high need for PA (Stults-Kolehmainen, 2023). However, it is unclear how this urge is being expressed and which characteristics can be used to operationalize the need for PA. As experts on this topic, physical education (PE) teachers in primary schools can provide information on how the need for PA is expressed in young children.



As an **exploratory approach**, this study aims to get an overview of the **characteristics** that primary school PE teachers use to identify a high or low **need for PA** in PE and whether they rate it as good or bad, helpful or disturbing in PE.

Measures

Demographic information: (e.g. age, gender, years of teaching experience)

Qualitative: signs for high or low PA-need Quantitative: rating to what extent high or low PA need is good/helpful or bad/disturbing

(seven-point scale: 1-7)

Methods

n = 70 primary school PE teachers in Germany **Gender**: female n = 59 (84 %); male n = 11 (16%)

Age: M = 45.69 (SD = 7.96)

Sample

Years of teaching experience: M = 16.84 (SD =

8.08)

Qualitative:

Data Analysis

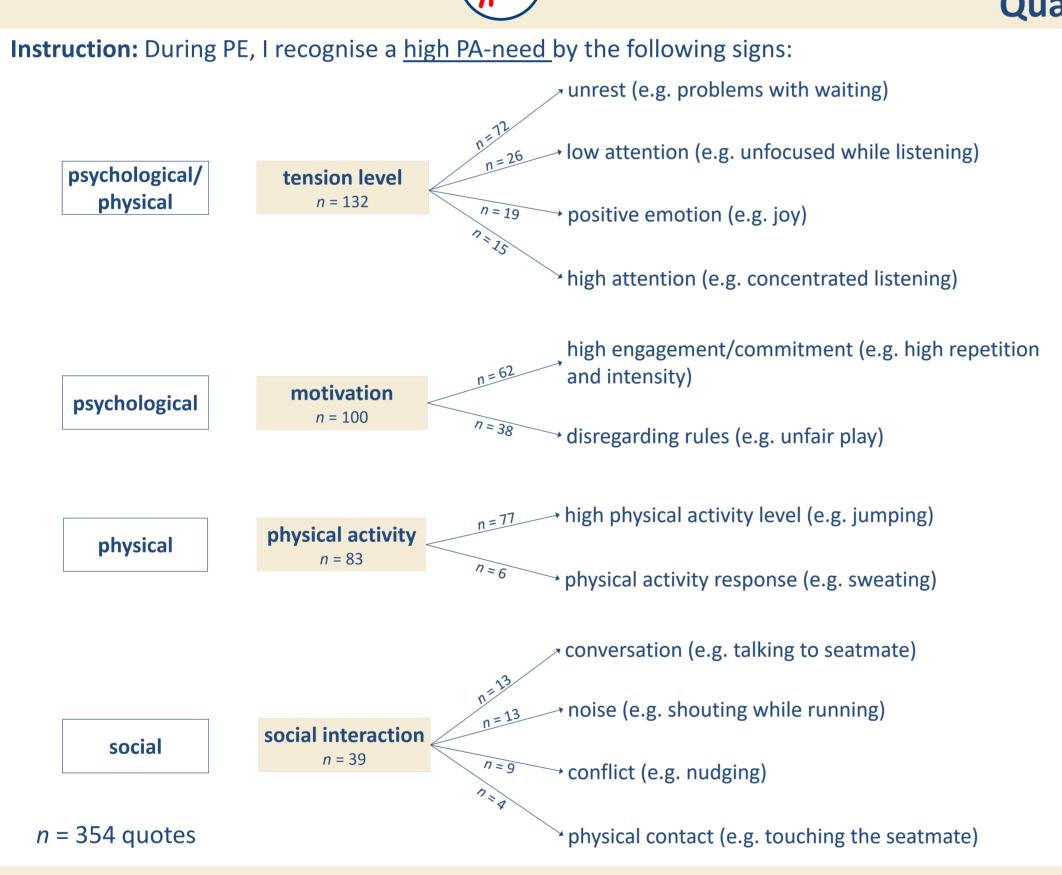
- Plausibility check
- Content analysis based on Mayring (2008)

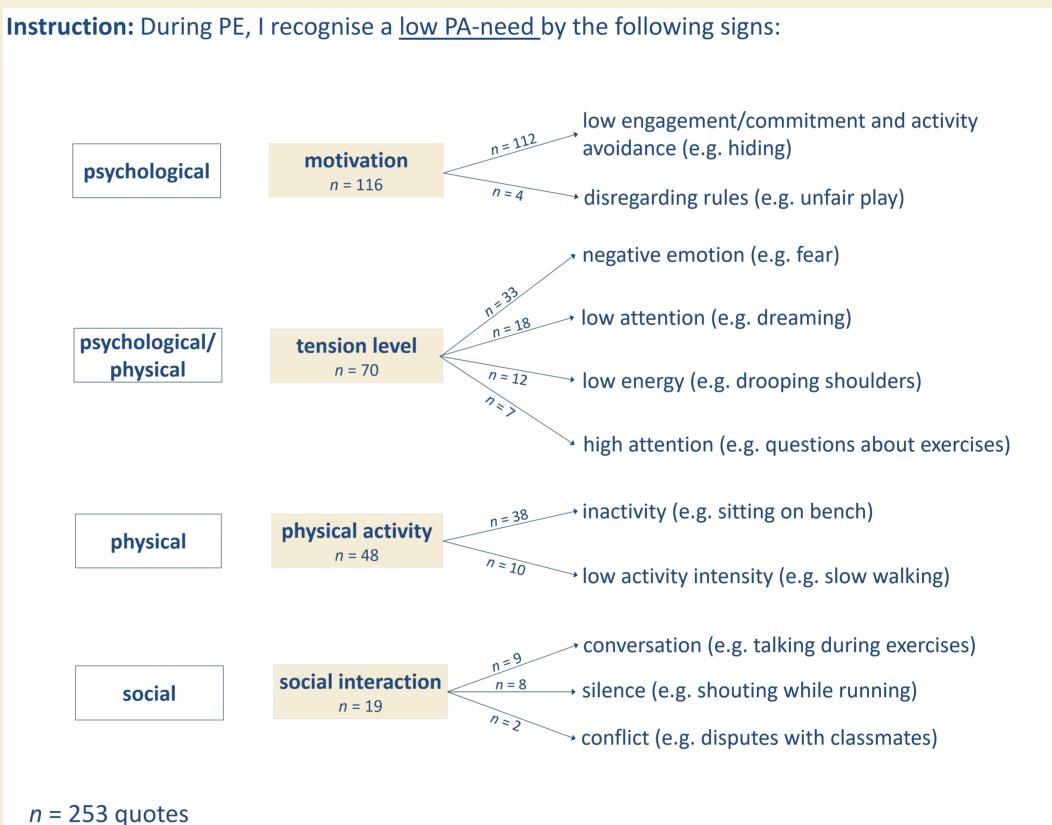
Quantitative:

Descriptive analysis (M; SD)

Results Qualitative







Quantitative

Seven point scale: 1 good – 7 bad

A high need for PA among my students...

- ... is for the student: M = 2.06 (SD = 1.12)
- ... is for the achievement of the learning goal: M = 2.60 (SD = 1.32)

Seven point scale: 1 helpful – 7 disturbing A high need for PA among my students... ... is for my PE lessons: M = 2.14 (SD = 1.11)

- ... is for the classmates: M = 3.13 (SD = 1.51)

Seven point scale: 1 good – 7 bad

A low need for PA among my students...

- ... is for the student : M = 5.50 (SD = 1.09)
- ... is for the achievement of the learning goal: M = 5.33 (SD = 1.46)

Seven point scale: 1 helpful – 7 disturbing

A low need for PA among my students...

- ... is for my PE lessons: M = 5.26 (SD = 1.26)
- ... is for the classmates: M = 4.96 (SD = 1.30)

Discussion & Conclusion

Our results show that the expression of a need for PA can be allocated to psychological, physical and social factors. Moreover, the relevance of the PA-need is supported by the fact, that teachers tend to rate a high need for PA positive and a low need for PA negative for the students, the achievement of the learning goals, the PE lessons and the classmates. Given these results, an assessment of students' PA-need can help to make fit PE adequate to students' needs. In addition, an orientation towards the PA-need may help to promote psychological variables like motivation or selfefficacy in an individual way. However, it needs to be shown whether teachers attribute low activity of students to their low PA-need or to demotivating content of a lesson. Moreover, research should show whether teachers differ in their subjective evaluation of the children's need for PA. Finally, further research is needed to theoretically substantiate the PA-need and, building on this, to systematize the measurement with child-friendly methods (e.g. pictorial questionnaires).

References

Mayring, P. (2008). Qualitative Inhaltsanalyse (10.th ed.). Beltz.

Stults-Kolehmainen, M. A. (2023). Humans have a basic physical and psychological need to move the body: Physical activity as a primary drive. Frontiers in Psychology, 14, 1134049. https://doi.org/10.3389/fpsyg.2023.1134049

Timmons, B. W., Naylor, P. J., & Pfeiffer, K. A. (2007). Physical activity for preschool children - how much and how? Applied Physiology, Nutrition, and Metabolism, 32(2), 122–134. https://doi.org/10.1139/H07-112





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