Abstract

Assessing the emotional experience of young physical education students during the traditional game *tail tag*

Íñigo Vélaz-Lorente 1, Asier Gonzalez-Artetxe 2*, Raúl Martínez-Santos 1,3, Asier Los Arcos 1,3

- ¹ Department of Physical Education and Sport, Faculty of Education and Sport, University of the Basque Country, UPV/EHU, Vitoria-Gasteiz, Basque Country, Spain
- ² Department of Musical, Visual Arts and Physical Education Didactics, Faculty of Education and Sport, University of the Basque Country, UPV/EHU, Vitoria-Gasteiz, Basque Country, Spain
- ³ Society, Sports and Physical Exercise Research Group (GIKAFIT), University of the Basque Country, UPV/EHU, Vitoria-Gasteiz, Basque Country, Spain

*E-mail: asier.gonzalez@ehu.eus

Conflict of interest: nothing to declare. Funding: nothing to declare.

When engaging in playful motor experiences, students display all dimensions of their motor conduct, with the emotional dimension being particularly prominent and relevant in the educational context (Lagardera & Lavega, 2004). Unlike sports, traditional games, such as *tail tag*, offer more diverse and enriching models of human communication (Martínez-Santos et al., 2020). Tail tag, in particular, is characterised by its instability (i.e., alliances, friendships, and antagonisms that change over time) and lack of an interruption mechanism (i.e., a game without memory). Therefore, the aim of the study was to assess the consequences on the emotional dimension of young primary education students during an unstable motor game without memory, such as *tail tag*.

Forty Spanish students from two fifth-grade primary education classes, 16 girls and 24 boys, participated in the study. The students of each class played *tail tag* for ten uninterrupted minutes in a 15 m \times 14 m rectangle. *Tail tag* is a traditional game based on capturing the *other players' tails* while keeping their *tails* safe. After the game, participants were asked to individually declare the emotion they experienced most

intensely, choosing one of nine different emotions: four positive ones (*joy*, *humour*, *affection* and *happiness*) and five negative ones (*sadness*, *fear*, *anger*, *shame* and *rejection*), by the *Games and Emotions Scale for Children* (GES-C). GES-C has been validated in primary school students aged eight to 12 (Alcaraz-Muñoz et al., 2022). Students participated in a familiarisation session before playing *tail tag*. The chi-square test was used to analyse the frequency of the emotion they experienced most intensely and to compare girls and boys.

Emotions declared were not equiprobable: joy, anger and happiness supposed 95% of the most salient, vivid emotions felt by the students (p < .001). Likewise, positive emotions (77.5%) were more intensely felt (p = .001) than negative ones (22.5%). The emotion (p = .45) and the type of emotion (p = .22) most felt by boys and girls were similar.

These results suggest that the emotional experience elicited by *tail tag* (i.e., an unstable motor game without memory) can be predicted to be predominantly positive in primary education students, for both girls and boys and interpreted in relation to the structural traits of the situation generated. Therefore, this information can be utilised by physical education teachers to design teaching strategies that foster pupils' emotional well-being.

Acknowledgements

The authors would like to thank all the students and teachers of the fifth year of the Fundación Educativa Dominicas de la Enseñanza for their participation and cooperation in the study.

References

Alcaraz-Muñoz, V., Alonso Roque, J. I., & Yuste Lucas, J. L. (2022). Design and validation of games and emotions scale for children (GES-C). *Cuadernos de Psicología Del Deporte*, 22(1), 28–43. https://doi.org/10.6018/CPD.476271

Lagardera, F., & Lavega, P. (2004). La ciencia de la acción motriz. Universitat de Lleida.

Martínez-Santos, R., Founaud, M. P., Aracama, A., & Oiarbide, A. (2020). Sports teaching, traditional games, and understanding in Physical Education: a tale of two stories. *Frontiers in Psychology*, 11, 581721. https://doi.org/10.3389/fpsyg.2020.581721