Social support from family and friends for physical activity in adolescence: analysis with structural equation modeling

Apoio social de familiares e amigos para atividade física em adolescentes: análise com modelagem de equações estruturais

Apoyo social de la familia y amigos para la actividad física de adolescentes: análisis con modelos de ecuaciones estructurales

Abstract

Social support is an important predictor for the maintenance of physical activity in adolescence. Thus, the social-ecological approach values the impact of individuals or groups interaction with available resources in the social environment for adopting an active lifestyle. This study analyzes social support from family and friends for adolescents to practice physical activity. Guided by the Social-Ecological Theory, an observational cross-sectional structural equations modeling was applied to 2,710 Brazilians adolescents aged from 14 to 18 years. We identified that the greater the social support from friends (β = 0.30; RMSEA = 0.065; CFI = 0.953; TLI = 0.922; SRMR = 0.048) and family, the greater the adolescents physical activity (β = 0.27; RMSEA = 0.015; CFI = 0.997; TLI = 0.995; SRMR = 0.013). However, support from both sources indicated no adequate adjustment values in the same study model. Our findings suggest that adolescents who perceive social support from family members or friends practice more physical activity, confirming that social support is important for physical activity promotion.

Adolescent; Motor Activity; Interpersonal Relations; Social Support
Introduction

The World Health Organization (WHO) found that physical inactivity is the fourth leading risk factor for death worldwide, second only to high blood pressure, tobacco use, and high blood glucose. Adolescence is considered a decisive period for adopting adequate physical activity behaviors, as these benefit bone health, prevent chronic noncommunicable diseases, and are considered a determining factor in active behavior throughout life.

The literature shows that social support is an important predictor for the maintenance of physical activity in adolescence. As a facilitator to physical activity, this construct substantiates theoretical models such as social cognitive, behavior modification, social learning, and social ecological theories. Theoretical models studies on health promotion allows us to understand lifestyle behaviors, such as physical activity.

Among these models, the social-ecological approach values the impact of individuals or groups interaction with available resources in the social environment for adopting an active lifestyle. Personal attributes within the social environment and the creation of an interpersonal network are key references for developing positive and negative habits related to physical activity during adolescence. Thus, we may understand social support as a complex and multidimensional construct that helps comprehending how different relationships either positively or negatively influence the way individuals deal with possible adversities during their development.

Family setting is considered an important source of support for the practice of physical activity during adolescence for facilitating active behavior by different mechanisms – encouraging situations that favor physical activity, proposing different practice strategies, and providing instrumental support and company during the physical activity. Another important source of social support are friends; as adolescents spend a considerable amount of time with their colleagues, with whom they coexist in common settings such as school and clubs, they may also be considered relevant shapers of active behaviors.

Regardless of the presence of social support from family and friends, promoting the practice of physical activity among adolescents is an important matter. Yet, few studies employed methods of analysis that enable the evaluation of a complex mechanism, such as the social support construct, by decomposing effects. Active behavior development processes within a context may vary according to individual personal attributes and perceived social environment (family and friends).

Understanding the perceived social support from family and friends for the practice of physical activity among different adolescent populations is necessary to provide subsidies, promote, and increase physical activity levels within this age group. Previous studies on this topic begin by direct relationship analyses; accordingly, structural equation modeling allows us to test mediation models under a theoretical construction using observational data. Considering that, this study aims to analyze the relationship between social support from family and friends and the practice of physical activity in adolescents from a region in Southern Brazil.

Methods

An observational cross-sectional study was conducted with 24,353 adolescents aged between 14 and 18 years, enrolled in 67 public high schools in Greater Florianópolis, Santa Catarina State, Brazil. Using random, cluster, and proportional methods, sampling was calculated according to the number of adolescents enrolled in the public school system. Based on the proportion distribution formula proposed by Luiz & Magnanini, we adopted a 3% sample error, 95% confidence interval, 50% prevalence, and 2.0 design effect, resulting in a required sample of 2,048 students.

With the approval of the Human Research Ethics Committee of the Santa Catarina State University (UDESC; permit n. 501.582), the schools and classes that would compose the sample were randomly selected. Due to the type of clustering, 25 public schools were systematically selected and proportionally distributed among the 13 municipalities that compose the Greater Florianópolis by region and population density. In total, 19 schools were randomly selected and six automatically
recruited for being the only ones within their municipality. Then, 126 classes were selected with proportional distribution per grade and study shift (morning, afternoon, etc.). All students were invited to participate in the study upon presentation of the signed free and informed consent form, resulting in a final sample of 2,710 adolescents.

A short version of the International Physical Activity Questionnaire (IPAQ) was used to verify adolescent’s physical activity level. The instrument was proposed by the International Consensus Group on Physical Activity Measurement, founded by the WHO, with representatives in 25 countries, including Brazil. It addresses questions on how much time did participants spend on vigorous and moderate physical activities and walks during the last seven days. Adolescents were classified into “meeting the recommendations” and “not meeting the recommendations”, according to WHO recommendation of 60 minutes of daily moderate and vigorous physical activity.

Social support for the practice of physical activity was measured using the Social Support for Exercise Behaviors survey instrument – created by a group coordinated by James F. Sallis and validated for Brazilian adolescents by Reis & Sallis. It comprises two scales: perceived support from family and perceived support from friends, both composed of 13 statements regarding support for the practice of physical activity. In this survey, adolescents must assign a score to each statement on an ordinal scale (0 = never; 1 = almost never; 2 = sometimes; 3 = frequent; 4 = very frequent). The final score is the sum of each scale assigned scores.

Our study sample was characterized using descriptive statistics, with means, standard deviations, and frequency distributions. The Spearman’s correlation was used to verify collinearity between social support from family and friends. All analyses were performed using the IBM SPSS statistics 20.0 software (https://www.ibm.com). A structural equation modeling analysis was conducted to evaluate direct associations between social support from family and friends and the practice of physical activity in adolescents. Parameters were estimated by the Asymptotically Distribution Free (ADF) method using the Stata 13 software (http://www.stata.com).

Adjustment evaluation was performed using the following parameters: root mean square error of approximation (RMSEA) – where values below 0.08 indicate adequate adjustment; goodness of fit index (GFI); Tucker-Lewis Index (TLI), where values must be equal to or greater than 0.90 to indicate adequate-fitting model; and a standardized root mean square residual (SRMR) below 0.05.

Initially, a confirmatory factor analysis was conducted to analyze family social support and friends social support. After confirmation, both constructs were treated as latent variables with three plots including indicators with common characteristics: the first included indicators related to emotional support, the second to informational support, and the third to tangible. Then, the measurement model was analyzed to verify whether the latent variables (social support from family and social support from friends) were correlated.

After that, the structural model was initially developed including three constructs: physical activity, perceived social support from family, and perceived social support from friends. Physical activity was treated as an indicator, based on WHO classification of physical activity (whether or not meeting the recommendations), and perceived social support from family and friends as latent variables. Different models were created including a single source of social support within each. We adopted this strategy because the measurement model showed that, when jointly analyzed, the two social support scales failed in adequately fitting quality indicators. The gender indicator was also included in all models for demonstrating powerful interactive effects on adolescents’ physical activity, as different physical activity levels between girls and boys are widely reported in the literature.

Results

The sample comprised 2,710 adolescents, among which 57.9% were female and mean age was 16.90 (SD = 1.02) years. Regarding physical activity classification, 57.8% of the adolescents did not meet WHO recommendations for weekly physical activity. As for perceived social support, the mean was relatively low for family support, 12.15 (SD = 10.52) points, and for friends support, 14.55 (SD = 11.51), on a scale ranging from 0 to 52.
Polychoric correlation tested the internal consistency between the items of each scale on perceived social support. According to data presented in Table 1, all items were correlated ($p > 0.05$), confirming the instrument good internal consistency.

The confirmatory analysis of each social support scale verified adequate adjustment indexes for social support from family (RMSEA = 0.032; TLI = 0.908; CFI = 0.941; SRMR = 0.029) and friends (RMSEA = 0.036; TLI = 0.909; CFI = 0.939; SRMR = 0.045) (Figure 1).

As for measurement model between perceived social support from family and perceived social support from friends, we found no adequate adjustment values (RMSEA = 0.172; CFI = 0.768; TLI = 0.565; SRMR = 0.068) (Figure 2).

By including perceived social support from family and friends and physical activity in the structural equations modeling analysis and considering gender as an indicator of physical activity we found inadequate adjustment indexes, indicating that the general model was not confirmed (RMSEA = 0.158; CFI = 0.513; TLI = 0.318; SRMR = 0.236) (Figure 3).

### Table 1

Correlation between indicators of the instrument for social support from family and friends.

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Note: S + F (item of the instrument Social Support for Exercise Behaviors, for family) + item number; S + A (item of the instrument Social Support for Exercise Behaviors, for friends) + item number.
Figure 1

Confirmatory factor analysis of Social Support for Exercise Behaviors for family and friends scales.

1a) Family

1b) Friends

Note: S + F (item of the instrument Social Support for Exercise Behaviors, for family) + item number; S + A (item of the instrument Social Support for Exercise Behaviors, for friends) + item number.
**Figure 2**

Measurement model between perceived social support from family and perceived social support from friends.

![Figure 2](image)

SSA: parcel item of the instrument *Social Support for Exercise Behaviors*, for friends; Ssf: parcel item of the instrument *Social Support for Exercise Behaviors*, for family.

**Figure 3**

Final model for analysis between physical activity and perceived social support from family and friends.

![Figure 3](image)

SSA: parcel item of the instrument *Social Support for Exercise Behaviors*, for friends; Ssf: parcel item of the instrument *Social Support for Exercise Behaviors*, for family.
We found adequate adjustment values in the model for physical activity and perceived family social support (Figure 4). These results indicate a direct relationship between social support and physical activity classification ($\beta = 0.27; p < 0.001$), as well as gender ($\beta = 0.12; p < 0.001$). The model reached a considerably high explanatory value ($r^2 = 0.88$) and adequate adjustment indicators (RMSEA = 0.015; CFI = 0.997; TLI = 0.995; SRMR = 0.013).

The model with perceived social support from friends, physical activity, and gender, presented in Figure 5, show adequate adjustment index values (RMSEA = 0.065; CFI = 0.953; TLI = 0.922; SRMR = 0.048), confirming the relationship between social support ($\beta = 0.20; p < 0.001$) and gender ($\beta = 0.085; p < 0.001$) with physical activity. The model had a strong explanatory power ($r^2 = 0.88$).

**Figure 4**

Analysis model between physical activity and family social support.

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SSF: parcel item of the instrument *Social Support for Exercise Behaviors*, for family.
Figure 5

Analysis model between physical activity and friends social support.

Discussion

Our main results indicate that, when subjected to a structural model, the perceived social support from family and friends influence adolescents’ physical activity, reinforcing the ecological approach to studies on health-related behaviors by the premise that different social settings foster different types of behaviors. Our data confirm that physical activity practiced by adolescents tend to be influenced by their social environments.6,11,12,21.

The constructs of social support from family and friends presented adequate values in the confirmatory factor analysis. All items composing the instrument evaluate the same construct: the perceived social support for each scale, family and friends. Such construct is supported by the unifactorial structure test of the scale applied to adolescents, since items correlations were statistically significant among each other, as well as scales total score.26,31 The confirmatory analysis of Social Support for Exercise Behaviors items helped validating the instrument for Brazilian adolescents, showing an adequate reliability and internal consistency for this population.

In this study, adolescents with a higher perceived social support from family presented higher levels of physical activity, corroborating results reported in the literature, which indicates that family social support plays an important role in active behavior during adolescence.7,8 This may be explained by the fact that families, especially parents, teach skills and defend beliefs that help adolescents shape important attitudes and behaviors towards physical activity.32 Family setting is considered the most conducive structure to healthy development changes during adolescence.11 Although adolescence experiences vary according to the contexts, the family promotes transformations in behavioral patterns and adolescents who perceive their support for practicing physical activity end up by adopting healthy habits and becoming physically active.
Another relevant finding in this study was that the high perceived social support from friends was directly related to higher levels of physical activity, corroborating other studies on this subject. A review performed by Mendonça et al. found friends to be the most consistent source of social support in the association between overall physical activity and social support. Friends influence in the practice of physical activity may result from social norms, imposed by themselves, to suit the group. That occurs because adolescents adopt behaviors based on those of friends within their social environment, as friendship networks are built according to shared interests, attitudes, and behaviors.

We found a peculiarity regarding the employed structural models, whereby analyses on social support from family and friends, when in the same structural model, failed in presenting acceptable adjustment indexes. This may be technically justified by the fact that the measurement model (the previous step) between the two scales showed inadequate adjustment indicators values; if indicators are inadequate in the measurement model, the structural model will follow the same trend. These results theoretically indicate that adolescents who perceive receiving support for practicing physical activity from at least one of the sources tend to present better physical activity levels. Another important factor is the way through which support is provided. Family members tend to encourage their children to practice physical activity through different means, such as providing transportation and equipment; in turn, friends tend to offer greater social support by inviting colleagues to practice physical activities, which may lead to a disparity in the overall individual models.

We found considerably low averages of perceived social support from family and friends among adolescents, as well as a low factorial load of the direct relationship between social support from both family and friends and physical activity. Meta-analysis studies on this subject found positive effects (although relatively modest) on the association between social support and physical activity among adolescents. Their results suggest that support from family and friends influences physical activity; however, the low associations suggest that social support explains part of the variation in activity-related behavior in adolescents.

Our study has some limitations. Physical activity, for example, was measured in a general manner (sum of moderate and vigorous physical activity), possibly underestimating activity levels. Physical activity was also evaluated using a subjective method and, even though the employed instrument has acceptable measurement properties to monitor habitual physical activity levels in adolescents older than 14 years, self-reporting evaluation imply a potential bias regarding subjectivity. Even so, questionnaires were deemed the best choice for the logistics of evaluating large sample sizes and are widely used in epidemiological studies.

Our study strength is using an analysis model that estimates the strength of all hypothesized relationships in a theoretical scheme, besides using the confirmatory analysis to verify whether the items that comprise the instrument really evaluate the same construct – social support. Only individual models with social support from family or friends had adequate adjustment indexes, possibly indicating that social support and its effects on adolescents are inherent to social environments.

**Conclusion**

Considering the investigated factors, we identified that social support from family or friends was associated with the practice of physical activity among adolescents from a region in Southern Brazil, as they presented better physical activity levels when they perceived support from at least one of these sources. Thus, the data indicate that the construct is an important promoter of physical activity and should be considered in intervention programs focused on promoting better physical activity levels in this age group. Our results are important to better understand adolescents’ active behavior, which, although individual, is also influenced by context characteristics and social relationships.

Understanding the determinants of physical activity is essential to support new strategies to reduce sedentary behavior. Supporting or promoting social environment for the development of healthy habits and lifestyles has been a prevention strategy adopted in different public health areas. Thus, physical activity promotion programs should develop strategies focused not only on the individual, but also in increasing the support from social networks involving this group.
Contributors

All authors contributed to the study conception and design, data analysis and interpretation, critical review and writing, and approval of the version to be published. All authors are responsible for all aspects of the work in ensuring the accuracy and integrity of any part of the work.

Additional informations

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References

Resumo

O apoio social é um preditor importante da manutenção de atividade física na adolescência, sendo que a abordagem da ecologia social valoriza o impacto da interação entre indivíduos ou grupos com recursos disponíveis no ambiente social para adotar um estilo de vida saudável. Portanto, o estudo analisa as relações de apoio social de familiares e amigos para a prática de atividade física por adolescentes. Com base na Teoria de Ecologia Social, os autores aplicam a modelagem de equações estruturais com uma perspectiva observacional e desenho transversal, com 2.710 adolescentes brasileiros entre 14 e 18 anos de idade. Foi possível mostrar que níveis maiores de apoio social dos amigos (β = 0,30; RMSEA = 0,065; CFI = 0,953; TLI = 0,922; SRMR = 0,048) e dos familiares estão associados com maior atividade física nos adolescentes (β = 0,27; RMSEA = 0,015; CFI = 0,997; TLI = 0,995; SRMR = 0,013). Entretanto, o apoio de ambas as fontes no mesmo modelo analítico não indicou bons valores de ajuste. Os achados sugerem que os adolescentes que recebem apoio social de familiares ou amigos apresentam melhores níveis de atividade física, confirmando o apoio social como importante fator de promoção da prática de atividade física.

Adolescente; Atividade Motora; Relações Interpessoais; Apoio Social

Resumen

El apoyo social es un importante predictor para el mantenimiento de la actividad física en la adolescencia, por ello, el enfoque socioecológico valora el impacto de la interacción entre individuos, o grupos con recursos disponibles en el entorno social, con el fin de adoptar un estilo de vida activo. Por lo tanto, este estudio analiza el apoyo social de las relaciones de familia y amigos para la práctica de actividad física de adolescentes. Utilizando la Teoría Ecológica Social, aplicamos modelos de ecuaciones, desde una perspectiva observacional con diseño transversal, en la que participaron 2.710 brasileños adolescentes, de 14 a 18 años de edad. Fue posible identificar que cuanto mayor era el apoyo social de los amigos (β = 0,30; RMSEA = 0,065; CFI = 0,953; TLI = 0,922; SRMR = 0,048), al igual que el apoyo social de la familia, mayor era la actividad física de los adolescentes (β = 0,27; RMSEA = 0,015; CFI = 0,997; TLI = 0,995; SRMR = 0,013). Sin embargo, el respaldo de ambas fuentes en el mismo modelo de análisis no indicó valores de ajuste adecuados. Los resultados sugieren que los adolescentes que percibieron un apoyo social de los miembros de la familia o amigos tienen niveles mejores de actividad física. Este resultado confirma que el apoyo social es un importante promotor de la práctica de actividad física.

Adolescent; Actividad Motora; Relaciones Interpersonales; Apoio Social

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