E-Poster

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Effect of Bracing on the Quality of Life for Children With Idiopathic Scoliosis

Topic: Health Conditions (Nervous System, Musculoskeletal System, Cardiopulmonary System)

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BACKGROUND

Idiopathic scoliosis, a condition characterized by an abnormal curvature of the spine, primarily affects children and adolescents during their growth phase. Bracing treatment of idiopathic scoliosis (IS) which is used specially in moderate cases where surgical intervention is not immediately required, can have a negative physical and psychological effect, especially in adolescents. The aim of this study is to determine the impact of treatment with a Chêneau brace on the quality of life (QoL) of adolescents with IS.

METHODS

A cross-sectional study conducted over a six-month period (from August 2023 to January 2024), involving adolescents with idiopathic scoliosis, divided into two groups: (G1) included patients treated by brace and rehabilitation, and (G2) included patients which benefited only from rehabilitation. We assessed their QoL by the QLPSD, the SRS-22 and the VASQL. Then, we studied the correlation between the QoL and the angle of correction, the duration of treatment, the age, and the Risser index.

RESULTS

The survey included 27 girls (56%) and 21 boys (44%) with a mean age of 14 ± 2 years. The QLPSD was better for G2 according to the three Scales with a significant difference. According to the VASQL, we observed a correlation between QoL and the angle of correction in brace wearers. According to the QLPSD, we noted a significant relationship between psychosocial status and age, angle of correction and duration of treatment in brace wearers. According to the SRS-22, satisfaction was correlated with brace correction and treatment duration.

CONCLUSION

Bracing in adolescents with IS leads to a notable decline in QoL. This would influence adherence to treatment mainly by reducing the duration of wear per day. Although bracing treatment can alter the QoL in adolescents with IS, it remains a preponderant therapeutic tool in the management of IS.

Statement of Disclosures

None

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