

ORAL PRESENTATION

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Scoliosis in adolescents reduces the risk of eating disorders

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Background and purpose

A recent study suggests a correlation between idiopathic scoliosis in adolescence and eating disorders [1]. Nevertheless, this did not correspond to our clinical experience in this same population. The aim of this study was to verify the correlation between scoliosis and eating disorders in adolescence.

Materials and methods

Design: cross-sectional study.

Population: 187 consecutive adolescent girls with idiopathic scoliosis (mean Cobb angle 26°, range 11-73°, age 15.2±2.5; 24% juveniles, 76% adolescent type); 93 school girl controls (age 14.9±1.0).

All the subjects answered the Italian validated questionnaire EAT-26 about eating habitude in order to retrieve eating disorders. BMI was calculated for all subjects and compared to reference data.

Statistical Analysis: chi-square test and ANOVA.

Results

Only 3 (1.6%; IC95 -0.2/3.4%) subject in the scoliosis group showed EAT-26 scores suggestive for eating disorders versus 7 (7.5%; IC95% 2.2/12.9%) in the school population; the difference was statistically significant (p<0.05). The odds ratio of eating disorders in adolescents with scoliosis is 0.2 (IC95 -1.18/1.58). BMI was slightly lower (p<0.05) for scoliosis patients (19±0.2) that for school girls (21±0.3).

Conclusions

EAT-26 is recognised among the most valid questionnaires for eating disorders and has been widely applied in various countries. Applying it, we found a lower incidence of eating disorders in female scoliosis patients than in the general population (both our own controls and Italian reference values). This contrast with some expert opinions and a recent study performed in Italy. The low BMI already reported in the literature as typical of scoliosis subjects is confirmed by our data.

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Reference

 Alborghetti A, Scimeca G, Costanzo G, Boca S: The prevalence of eating disorders in adolescents with idiopathic scoliosis. Eat Disord 2008, 16(1):85-93.

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