A peer led asthma education programme in adolescents was more effective than no programme for improving quality of life


QUESTION: In adolescents with asthma, is a peer led asthma education programme more effective than no programme for improving quality of life (QoL)?

Design
Randomised (allocation concealed†), blinded (data analyst)‡,* controlled trial with 3 months follow up.

Setting
6 high schools in Tamworth, New South Wales, Australia.

Patients
272 adolescents who were in grades 7 and 10, were present on the test day, and reported recent wheeze were included in the study. 251 adolescents (92%; mean age 14 y, 55% girls) completed follow up.

Intervention
3 schools (124 students) were cluster randomised to implement the adolescent peer led asthma education (Triple A) programme. The Triple A programme involved a 3 step approach to peer led education. In step 1, student volunteers in grade 11 were trained as leaders during a 6 hour workshop to educate their peers on asthma and its management; in step 2, teams of 3–4 of these leaders taught three 45 minute health lessons to grade 10 classes in their schools on how to critically analyse the barriers to asthma management by using games, videos, worksheets, and discussion; and in step 3, the grade 10 students developed short acts, dramas, and songs to present the key messages to grade 7 students. 5 schools (148 students) were cluster randomised to receive no programme.

Main outcome measures
Main outcomes included asthma QoL (overall, activities, symptoms, and emotions) and lung function. QoL was assessed using a self administered questionnaire. Improvement in QoL was considered clinically important with a change in score of > 0.5 units.

Main results
Overall QoL and activities were higher for students in the Triple A programme than for those who were not (table). Grade 10 students in the Triple A programme reported an increase in QoL (p = 0.01) (table), and grade 7 students did not (p = 0.08). Grade 7 students in the Triple A programme reported an increase in activities (p = 0.005) (table), and grade 10 students did not (p = 0.53). Groups did not differ for emotions (p = 0.14) or symptoms (p = 0.15). Groups did not differ for improved lung function.

Conclusion
In adolescents with asthma, a peer led asthma education programme was more effective than no programme for improving overall quality of life and activities.

COMMENTARY
Current asthma consensus guidelines consider asthma education to be one of the most important components of asthma management, but unfortunately, this aspect of care is often neglected. Furthermore, we need to determine what types of educational interventions are most useful in the various subgroups of patients with asthma, such as adolescents. The study by Shah et al reports a new and promising approach to providing asthma education to adolescents through a peer led programme. It suggests that adolescents can learn from their peers and probably do so more often than from adult educators. Lung function improved in both groups. Because the intervention was done at the same time as the control group, the magnitude of the effect may have been underestimated as a result of contamination of the control group through awareness of the results might have been more striking. It would be worth repeating the study among adolescents who have recently visited an emergency room for acute asthma, as we recently did for adults. Furthermore, high morbidity groups are often non-attenders of educational programmes, and new initiatives, such as the one described by Shah et al, could be useful in motivating these patients to improved self management.

This study is important because it suggests the peer teaching approach that has been successful in drug use prevention among adolescents may be transferable to asthma education.

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