Asthma education: an essential component in asthma management

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Targeted simple educational interventions including key messages to the patient can help reduce asthma burden http://ow.ly/RW16D

Despite recent developments in our understanding of what could be the optimal management of asthma and renewed efforts from guidelines developers to help clinicians integrate their recommendations into current care, asthma remains a major human and economic burden [1–3]. Asthma is a variable condition, which unfortunately often remains uncontrolled, resulting in frequent acute healthcare use and impaired quality of life. Patient involvement in the management of their condition helps improve its control, and most patients agree to play such a role [4, 5]. However, to be able to manage asthma adequately, those suffering from asthma should understand the nature of the disease, how to assess its control, the basic principles of treatment and the peculiarities associated with their own case, in addition to learning essential self-management skills [4, 6, 7]. Self-management asthma education is therefore considered by current asthma guidelines and strategies to be an essential component in the management of asthma, and is recommended with the highest level of evidence [8–10].

Previously reported asthma educational programmes provided variable effects, probably due to differences in the content, methods, training of educators and the ability of the latter to influence patient behaviour, patient motivation, inclusion of shared-decision strategies and patient educational, psychosocial and economical background [4, 6, 11]. Nevertheless, the bulk of evidence shows that when quality interventions are offered, self-management education results in an improvement in adherence to therapy and in most asthma outcomes [4, 6, 12–14].

Unfortunately, self-management asthma education is still insufficiently provided [3, 15–17]. This can be explained by many factors, including patient-related barriers to participation in such programmes, physicians’ non-integration of asthma education into current practice, and/or structural and organisational problems.

First, patients are sometimes reluctant to attend educational programmes, even when available at no or minimal cost [18]. This may be due to a lack of time and/or motivation, difficulty accessing this service, or simply a perception that they do not need this intervention. They might not want to participate in decision-making if they feel they lack sufficient knowledge or experience to do so [5, 19, 20]. Secondly, in many instances, physicians might not have, as is often reported, the time, skills, motivation, perception of the need, or resources to provide formal asthma education, particularly in primary care settings [21, 22]. As an example, WESNER-OGILVIE et al. [21] performed a survey of 15 general practices in Scotland (UK) considering the key recommendations of asthma guidelines. With regard to the recommendation to offer self-management education, including written asthma action plans focussing on individual needs, to all patients with asthma, particularly those admitted to hospital, 98.4% of physicians were aware of this recommendation and 79.7% believed that its implementation would improve asthma management;
In this issue of the European Respiratory Journal, PLAZA et al. [27] present a 1-year cluster randomised controlled multicentre study of 230 adults with mild-to-moderate persistent uncontrolled asthma, which assesses the effects of an asthma educational programme based on a repeated short intervention (AEP-RSI) on asthma control and quality of life. The intervention consisted of four face-to-face sessions at 3-month intervals, plus administration of a personalised, simplified written action plan and inhaler technique training. There were two control groups: one that included standard practice, and another that included the gold standard asthma education programme. Educational messages were provided by physicians, educators and/or nurses, all of whom had received specific training to make the messages uniform. The mean time for implementation of the short educational programme (10.7 min for the initial visit and 6.4 min for the subsequent follow-up visits) is surprisingly short. The benefit of this short encounter could, however, depend on the type of information provided, the communication skills of the health professional and the ability of each individual to learn and integrate the notions provided. Nevertheless, in the study, there was a significant improvement in the asthma control score in the three groups, although it was more marked in the short intervention and gold standard groups compared with usual practice. The two types of educational interventions also resulted in reduced exacerbations and greater increases in quality of life. The authors suggest that the AEP-RSI is another effective way of improving asthma outcomes.

Simpler educational interventions have previously been proposed but many have failed to improve asthma control, although most could reduce exacerbations [28–30]. The study by PLAZA et al. [27] suggests that “simplified” educational interventions can be effective if they offer the essential elements of an effective educational intervention, such as key information on asthma management, provision of a personalised but easy to understand action plan, and inhaler technique training [4, 8, 31, 32]. The study’s success may also be partly explained by the repetition of key messages at regular intervals over a 1-year period, the three components of the education programme being checked at each encounter, and the establishment of individualised goals for each patient [32].

This study adds to the evidence that targeted educational programmes providing key messages on asthma management are useful in reducing untoward asthma consequences, even if asthma is mild to moderate, as shown in a previous study [25]. It confirms that gold standard educational programmes are highly effective but that shorter, simpler, well-designed programmes may also work. Hopefully, this can motivate delivery of such interventions to patients, particularly when resources are limited. However, both the quality of the programme and the training of educators and consistency of messages should be ensured. Programmes should be based on sound theories of education and behavioural changes [33].

In conclusion, initiatives that allow effective educational interventions to be more easily integrated into current care are welcome. This will hopefully help improve long-term outcomes for a disease that can be controlled in the vast majority of patients. Asthma therapy should further improve over time but simple interventions can already make a major difference.

References