A study of treatment activities and perceived treatment burden in adults with cystic fibrosis

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Objective: Advances in cystic fibrosis (CF) management over the past 20 years have lead to an increase in life expectancy such that CF is emerging as a chronic disease requiring complex treatment strategies. In this study, we investigated the relationship between daily treatment activities and perceived treatment burden in CF adults from a single UK centre.

Methods: A questionnaire was designed using the CF Questionnaire-Revised (a CF-specific measure of healthcare-related quality of life) to measure self-reported daily treatment activities and percentage perceived treatment burden score (PPTBS), with higher scores representing greater perceived treatment burden.

Results: Among the twenty respondents, the mean reported time to complete daily therapies was 130 minutes (range 0–480 minutes) and the median total number of daily medications was 5 (range 1–8). The mean PPTBS was 60% (SD 16%), with no significant difference in PPTBS based on gender or age. In a multivariable model, PPTBS trended towards a negative association with FEV1 (p = 0.08) however was not significantly influenced by the total time spent on treatments or number of daily medications (total, nebulised or oral).

Conclusion: Daily treatment activities exhibit a broad range which may reflect variability in disease severity and/or treatment adherence in the respondent group. Interestingly, perceived treatment burden did not appear to associate with the total time spent on daily treatments. The observed trend towards a negative association with FEV1 suggests that factors other than the time burden of treatment regimen act to increase PPTBS in CF adults with more severe lung disease.

The paediatric cystic fibrosis service at the Leeds Children’s Hospital – a patient and parent perspective

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Objectives: To undertake a Quality Improvement Questionnaire of parents attending our paediatric CF Centre, and compare results with our staff’s perceptions of our service.

Methods: A modified version of a questionnaire used by the Stanford CF center (CA) was used. A similar questionnaire was used to survey the staff. In addition there was opportunity for people to give their opinions on good aspects of the service and suggest ways in which it could be improved.

Results: A total of 122 (76%) completed questionnaires were obtained from the patient group and a total of 10 (56%) from the staff. 99% in the patient group agreed or strongly agreed in recommending the service compared to 90% in the staff. 87% in the patient group had aspects of the service that they felt stood out compared to 90% for staff. Patients liked the friendly, approachable and knowledgeable staff and the timely advice they received, and the MDT working of the team. 30% of the patients had suggestions for improvements compared to 60% of staff. Patients saw seeing the same doctor, shorter waiting times and more flexible appointment times as issues.

Conclusion: Both patients and staff show a high level of satisfaction with the service with less than a third of patients feeling improvements could be made. Patient priorities for potential improvements do not necessarily concur with those of staff. Moving forward we must balance these to further enhance the service.