Abstract P75 Figure 1 Pulmonary rehabilitation staff's perceived knowledge, skill and confidence to deliver each education topic (Likert scale 1=low level, 5=high level).

reported feeling most knowledgeable, skilled and confident to deliver Exercise, Managing Breathlessness and Disease Education (mean rank out of 12: 1.7, 2.0 and 3.0, respectively). PR staff reported feeling least knowledgeable, skilled and confident to deliver Medication, Diet and Anxiety Management (mean rank: 10.3, 11.0 and 11.7, respectively). Figure 1 displays median scores for knowledge, skills and confidence for each of the education topics. Anxiety Management and Diet had significantly lower scores compared with all other education topics (all $p < 0.05$). Free text responses confirmed staff felt less skilled in delivering Diet and Anxiety Management topics; "Not too confident addressing a group if they have any issues [with anxiety]." The majority of staff stated they felt unable to deliver all topics in an unstructured manner, particularly Diet ($n=9$), Medications ($n=8$) and Anxiety Management ($n=7$).

Conclusions If re-designing PR education, additional training should be provided for staff particularly around Diet and Anxiety Management and delivery style.

P76 "JUST DO IT!" PATIENT SATISFACTION AFTER A COURSE OF PULMONARY REHABILITATION AND ADVICE TO OTHER POTENTIAL PARTICIPANTS

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Introduction Quality Standards for Pulmonary Rehabilitation (PR) state that patient experience should be sought during PR evaluation. However, a greater understanding of patient's perceptions and expectations still needs to be established.

Therefore we explored patient's experiences of PR and what they would say to promote PR.

Methods Following completion of a twice-weekly, 6 week, supervised programme of outpatient PR, patients were asked to complete an anonymous patient satisfaction questionnaire, which included the following questions:

1. What were the most useful aspects of the course?
2. Do you have a comment that we could use for promotion of the programme which would encourage other patients to participate?

Each response was taken as a unit of analysis and the Results were analysed using thematic content analysis.

Results There were 140 responses to Question 1 and 77 responses to Question 2 over an eight month period. Main themes are reported. Question 1: Some patients found exercise to be the most useful component of PR ($n=20$), whilst others reported it was education ($n=15$). Those who gave more specific examples spoke about the benefits gained from exercise including improved fitness ($n=13$) and increased motivation to exercise ($n=4$). With regards to education, specific talks ($n=5$) and information given ($n=6$) were mentioned. Patients also felt PR helped them develop coping skills ($n=20$) and increase their confidence to self-manage ($n=10$). Staff were important for encouragement and support ($n=17$), as was meeting other patients with similar conditions ($n=18$). See Table 1. Question 2 ($n=77$): Many comments suggested by patients centred on gains in well-being; being better able to cope with their condition ($n=21$), meeting others with similar problems ($n=6$), increased confidence ($n=6$) and improvements in fitness ($n=4$). Another major theme was "do it, you've got nothing to lose" ($n=21$). See Table 1.

Conclusion Both the exercise and education components of PR provide benefit to patients; supporting them in coping

with their condition. Patients thought telling others about improved well-being and that there was much to gain from PR and nothing to lose would encourage others to participate. This new information could be used to stimulate patient engagement.

Abstract P76 Table 1 Results of thematic content analysis

Question 1: What were the most useful aspects of the course?

Main Theme	Example
1. Exercise and Improvements in Fitness	"The use of the weights. Better breathing, walking"
2. Motivation to exercise	"Encouragement to exercise especially walking more"
3. Learning and gaining information through the Education sessions. Gaining coping skills.	"Learning about lung disease, how to cope with it. Getting information which I should have been given years ago. Also knowing what other options there are."
4. Increasing confidence to self-manage.	"Giving me confidence to deal with the problem."
5. Importance of the Role of Healthcare Professionals	"Having someone there to encourage you to push your limits while still feeling safe."
6. Meeting other patients with similar conditions	"Meeting people with the same condition and realising how lucky I am and enjoying their company."

Question 2: Do you have a comment that we could use for promotion of the program which would encourage other patients to participate?

Main Theme and Sub Themes	Example
1. Wellbeing	I. "The course is very beneficial in many ways with breathing, walking, strength and education talks and it helps you to cope with your illness."
II. Coping with condition	II. "It is well worth doing as it has helped me very much with my life."
III. Meeting similar others	III. "It is inspiring to meet people with similar problems."
IV. Increase in Confidence	IV. "Increased my confidence in walking +being more active."
V. Improved fitness	IV. "The course has encouraged me to be more active and progress on to the next level to improve my fitness."
2. Just do it, nothing to lose	"If you get the chance to take part in this course – 'go for it' it can only do good."

P77 SHUTTLE WALK TESTS: ARE THEY JUST AN OUTCOME MEASURE?

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Introduction Exercise tests are a keystone in assessing patients for Pulmonary Rehabilitation (PR). Behavioural research has suggested that performing an outcome measure may influence the outcome.¹ This has not been explored in respiratory disease in relation to performing an exercise test. Performing an exercise tests could improve confidence and alter subsequent exercise behaviour.

Aim To assess if completing a single incremental shuttle walk test (ISWT) increases patients' confidence in walking at home; managing breathlessness, or completing a shuttle walk test.

Methods Patients attending a PR assessment were asked to score their confidence levels according to the above criteria prior to their first ISWT, and then again following their 1 st ISWT. Patients answered the following questions before and after completing an ISWT with regards to their confidence in the following conditions: 1)Walking at home(Q1), 2)Managing breathlessness(Q2), and 3)Completing the ISWT(Q3). All questions were graded on a VAS scale of 0–10.

Results 90 patients (Mean age- 68.51 years; 48 Males; FEV1- 1.46 L; MRC median- 3) with respiratory disease answered the questions. There were statistically significant differences in confidence pre and post ISWT in all 3 questions (p=0.00). Pre-ISWT the values were (Q1) 5.74, (Q2) 6.25, (Q3) 7.07, the mean changes were: (Q1) +1.51; (Q2) +0.92; (Q3) +1.13 points. No significant changes in distance covered in the second ISWT were noted (21.2 m). There was no correlation between the change in confidence and change in distance covered between the two tests (r^2 = (Q1) 0.001, (Q2) 0.003, (Q3) 2.50, $p \geq 0.05$)

Conclusion Performing the ISWT increased patients' perceived confidence levels to manage their breathlessness and walking at home. This may have implications when designing clinical trials particularly in the control group where the performance of an ISWT may alter exercise behaviours. Further research is required to investigate the effects of completing outcome measures in clinical trials.

REFERENCE

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P78 CARDIOVASCULAR AND MUSCULOSKELETAL PHENOTYPES AND THE CLINICAL OUTCOMES IN COPD: A SYSTEMATIC REVIEW AND META-ANALYSIS

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Systematic reviews examining the relationship between cardiovascular and musculoskeletal phenotypes and relevant clinical outcomes in chronic obstructive pulmonary disease (COPD) are currently lacking. We have systematically summarised and examined the predictive value of selected phenotypes that could be utilised in clinical practice. We identified 61 cohort studies with longitudinal data collection. Meta-analysis indicated that the 6 min walking distance (6 MWD; HR 0.83, 95% CI 0.79 to 0.87), resting heart rate (HR 1.09, 95% CI 1.02 to 1.15), C-reactive protein (HR 1.24, 95% CI 1.08 to 1.40), fibrinogen (HR 4.18, 95% CI 1.13 to 7.22) and tumour necrosis factor-alpha (HR 0.91, 95% CI 0.82 to 1.00) were independent predictors of clinical outcomes in stable COPD patients, after adjusting for sex, age, body mass index and smoking status. Very few studies examined the association between musculoskeletal phenotypes such as the short physical performance battery, quadriceps maximum voluntary contraction, and sniff nasal inspiratory pressure and clinical outcomes in COPD. With the limited adoption of the 6 MWD in clinical practice there is a need for faster and simpler tests to identify COPD patients at an increased risk for adverse events in an early stage of disease.