Appendix 1: Patient survey questionnaire

Reason for not wanting to participate.

Pulmonary rehabilitation is an important treatment for people like you with lung disease. Pulmonary Rehabilitation helps reduce your breathlessness and allows you to do more. A programme consists of a package of exercise and a programme to help you best manage your disease. We would like to understand how we might best deliver the service to people like you. We would be grateful if you could take a minute to complete this brief questionnaire.

Please circle:

Trease en elec
1. Male/Female
2. Age Group: - Under 40/40-50 /50-60 /60-70/70-80/over80
3. How old were you when you left school (college/university)?
4. Do you currently have a paid job? Yes/No
Occupation:
5. Does your breathing problem bother you? Yes/no
6. Does your breathing problem affect your ability to carry out paid work? Yes/no
7. Does your breathing problem affect your ability to carry out unpaid work, such as work around the
house? Yes/no
8. Have you ever had to miss a day of paid/unpaid work because of your breathing problem? Yes/No
9. Are you able to keep up with people of a similar age to you when outwalking?
Yes/ No/ I don't go out walking
10. Does your breathing problem keep you from being as active as you would like? Yes /No
11. Does your breathing problem keep you from visiting with friends and family as often as you would
like? Yes/No
Would you be interested in participating in a treatment that can make you less breathless and more active?
Yes/No
-If YesPlease go to Question <u>12band12c.</u>
-If NoPlease tick an option below.

		tisfied with current breathing and activity levels.						
	No ti	me to spend on treatment.						
	Conc	erned about the monetary cost of treatment						
	Curre	ently using alternative treatment						
	Othe	r (please provide a reason):						
<u>12</u>	b. If ye	s, how and where would you prefer to do this programme?						
Th	e packa	age of pulmonary rehabilitation consists of a personalized e	exercise for you and a pro	gramme of				
edı	ucation	to help you best manage your disease.						
P	lease ti	ck all that apply		TICK				
	1	In a group supervised by a nurse/ physiotherapist at the He I can follow an exercise programme with the support of he /community health workers						
	In a group supervised by a nurse/physiotherapist at your local hospital /community center. Where I can follow an exercise programme with the support of health care professionals/community health workers							
	I would consider working through an exercise and education manual at home with support from a health professional/ community health workers, checking on me and being there to answer questions.							
	4	I would consider using a web based programme with supp Health care professional/ community health workers check there to answer questions.						
	Less that	much time would you be willing to spend participating in an 30 minutes per day	a treatment?					
	30 mini	utes to 1 hour per day						
	1 to2 h	ours per day						
	More th	nan 2 hours per day						
<u>1</u>	<u>13.</u>	Do you use any of the following?						
		The Internet/web	Yes/ No					
		A computer	Yes /No					
		A smartphone	Yes /No					
		A tablet	Yes/No					

Thank you for taking the time to complete this questionnaire.

Appendix 2: Health care worker survey questionnaire

Pulmonary Rehabilitation is a highly evidence based intervention to support patients with respiratory disease. It significantly reduces breathlessness, anxiety, depression and improves quality of life and importantly exercise capacity.

We are trying to develop a pulmonary rehabilitation programme in your area and would be grateful if you could complete this questionnaire to help us understand your opinions of the process and practice of pulmonary rehabilitation.

YOUR ROLE									
1. W	1. Which best describes your professional job category?								
☐ Community health worker ☐ Specialist respiratory nurse									
	Family physician		Physiotherapist						
	Hospital doctor		Other:						
2. W	hat responsibilities do you have fo	r th	e care of people with COPD?	Tick	all that apply.				
	Diagnosis		Prescribing		Inpatient treatment				
	Non-urgent care		Ongoing management		Outpatient clinics				
	Urgent assessments		Admission prevention		Primary care				
	Oxygen therapy		Medication checks		Other				
If oth	ner, please give details								
How many years' experience do you have of caring for people with respiratory problems?									
	Please enter a whole number.								

THE PULMONARY REHABILITATION (PR) REFERRAL PROCESS

I feel sure that I understand the eligibility criteria for pulmonary rehabilitation.														
			0	1	2	3	4	5	6	7	8	9	10	
		Not at all												Completely
I feel adequately prepared to refer patients to pulmonary rehabilitation.														
	•		0	1	2	3	4	5	6	7	8	9	10	
		Not at all												Completely
What resources (eg. tools, systems or processes) are available in your practice to support clinician in making pulmonary rehabilitation referrals? Tick all that apply. Prompts in clinical system Information about PR for Clear referral criteria														
	□ Electronic referral □ Skills training for □ Other communicating effectively with patients													
If oth	If other, please give details													
3. Do you believe that PR is worthwhile in respiratory disease?														
		Yes, very m	nuch											
		Yes, a little												
		No												
		Not sure												

4. What factors might influence your decision to refer a	a patient to p	ulmonary rel	nabilitation?
	No influence	Some influence	Strong influence
Increasing shortness of breath			
MRC Dyspnoea Scale ≥3			
Mobility is affected by breathlessness			
Decreasing activity levels			
Frequent exacerbations			
Recent hospital discharge after exacerbation			
Patient is deconditioned			
Low exercise tolerance			
Patient anxiety			
Poor self-management			
Easy to use referral process			
Other			
If other, please give details			
In your experience what are the main reasons that you v	would refer a	patient to PI	R?

What factors might influence your decision \underline{not} to refer an eligible patient to pulmonary rehabilitation?

	No influence	Some influence	Strong influence
I don't have enough information about PR			
I'm uncertain that PR is worthwhile			
Patient has doubts that PR is worthwhile			
Patient refuses referral			
Patient co-morbidities			
Poor mobility			
Patient does not fit acceptance criteria for a programme			
Patient has attended PR previously			
Transportation problems			
Distance of class from patients home			
Lack of time to make referral			
Timing of classes not convenient for patient			
I'm unaware of how to refer			
Difficult referral process			
Other			
If other, please give details			

For each statement please select the answer that best suits your experience

	Strongly	Discorno	Not	A ama a	Strongly
	disagree	Disagree	sure	Agree	agree
I can see the potential value of referring patients to PR					
I believe that referring patients to PR is a legitimate part of my role					
I'm open to working with colleagues in new ways to enable PR referral to happen					
I could easily integrate PR referral into my work					
I have confidence in the ability of colleagues who care for people with respiratory problems to refer patients to PR					
Training should be provided in my practice so that staff know who to refer to PR					
Sufficient resources would be available to support PR referral in my practice					
I would like to receive reports in my practice about the outcomes for patients following a PR referral					
The staff in my practice/ colleagues agree that referring patients to PR is worthwhile					
I am confident I could overcome any difficulties I have with regard to referring patients to PR					

IMPROVING REFERRAL AND UPTAKE OF PULMONARY REHABILITATION (PR)

What woul	ld make it easy for	you to refer patients t	to PR?	
What coul	d be done to encou	rage patients to take u	p PR?	
Which con Select all tl		ods are effective for yo	u when communicating wit	h PR providers?
	☐ Email	☐ Letter	☐ Telephone	Other
If other, ple	ease give details			

Adapted with kind permission from Dr J Fuld, Addenbrookes Hospital, Cambridge, U.K. Early, F., Wilson, P., Deaton, C., Wellwood, I., Dickerson, T., Ward, J., Jongepier, L., Barlow, R., Singh, S.J., Benson, J. and Brimicombe, J., 2019. Developing an intervention to increase REferral and uptake TO pulmonary REhabilitation in primary care in patients with chronic obstructive pulmonary disease (the REsTORE study): mixed methods study protocol. *BMJ open*, 9(1), p.e024806. Copyright © 2019, BMJ Publishing Group Ltd. All rights reserved. Creative Commons CC BY 4.0 (https://creativecommons.org/licenses/by/4.0/legalcode).