



Patient Perspectives and Readiness to Change in Chronic Kidney Disease: Exercise and Physical Activity Behaviours

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Introduction and Aims

- Chronic Kidney Disease (CKD) is associated with a wide range of physiological and psychological complications.
- Exercise is beneficial for CKD patients but it is rarely integrated into the care plan and patients typically lead sedentary lifestyles.
- Physical inactivity is often related to low self-efficacy (SE) and lack of readiness to change, but the reasons underlying patient inactivity have not been explored in the UK CKD population.
- Part 1: Explore patient readiness to change or adopt exercise behaviours and confidence to exercise.
- Part 2: Explore patients perceived barriers and motivators for exercise

Method and Analysis

Part 1: The survey included 2 validated questionnaires:

- Stage of Change Questionnaire (SOCQ)- Determines to what extent a patient is ready to alter their lifestyle in favour of a more active routine
- Self-efficacy questionnaire (SEQ)- Determines how confident a patient is in developing a more active lifestyle

Part 2: The qualitative part of the study utilised semi-structured focus groups and interviews.

 All data were digitally recorded, transcribed verbatim, translated where necessary and subject to analysis using a framework approach.

Results: Part 2

This diagram illustrates the main patient perceived barriers and motivators to

exercise

leave the home and after about half a mile I can't guarantee what my sugar level will be, I might get a hypo there, it just happens." Male 69 "I do feel conscious that I know I Other medical am not going to be able to do what I did before and there are people conditions Being older around who are uber fit. Plus I am a lot older." Female 48 "I was afraid of walking far in case I didn't feel well Barriers and I couldn't get home or Fear something." Male 43 ...you feel very sort of lethargic and everything is a bit of a, Fatigue sometimes you just feel like you Lack of are trying to walk through motivation treacle...." Male 56

"I think it's partly because sometimes we can't be bothered because of our age group and secondly I think sometimes because of our conditions, how we feel, and that sort of thing, and the time it takes to do these things." **FG03**

'I am diabetic, so for example if I start walking I

Results: Demographics



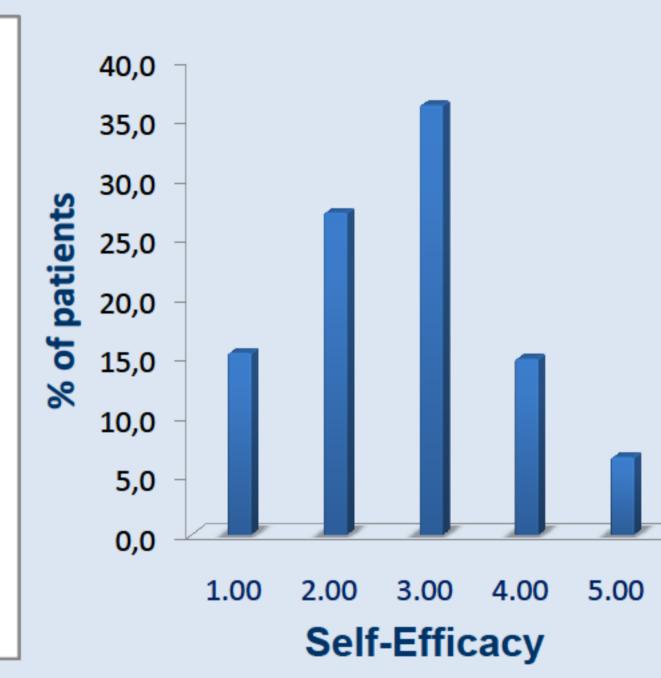
N=399 patients with CKD stage 1-5(223) male, median age 60, age range 16-93 years).

Part 2: Semi structured interviews and focus groups

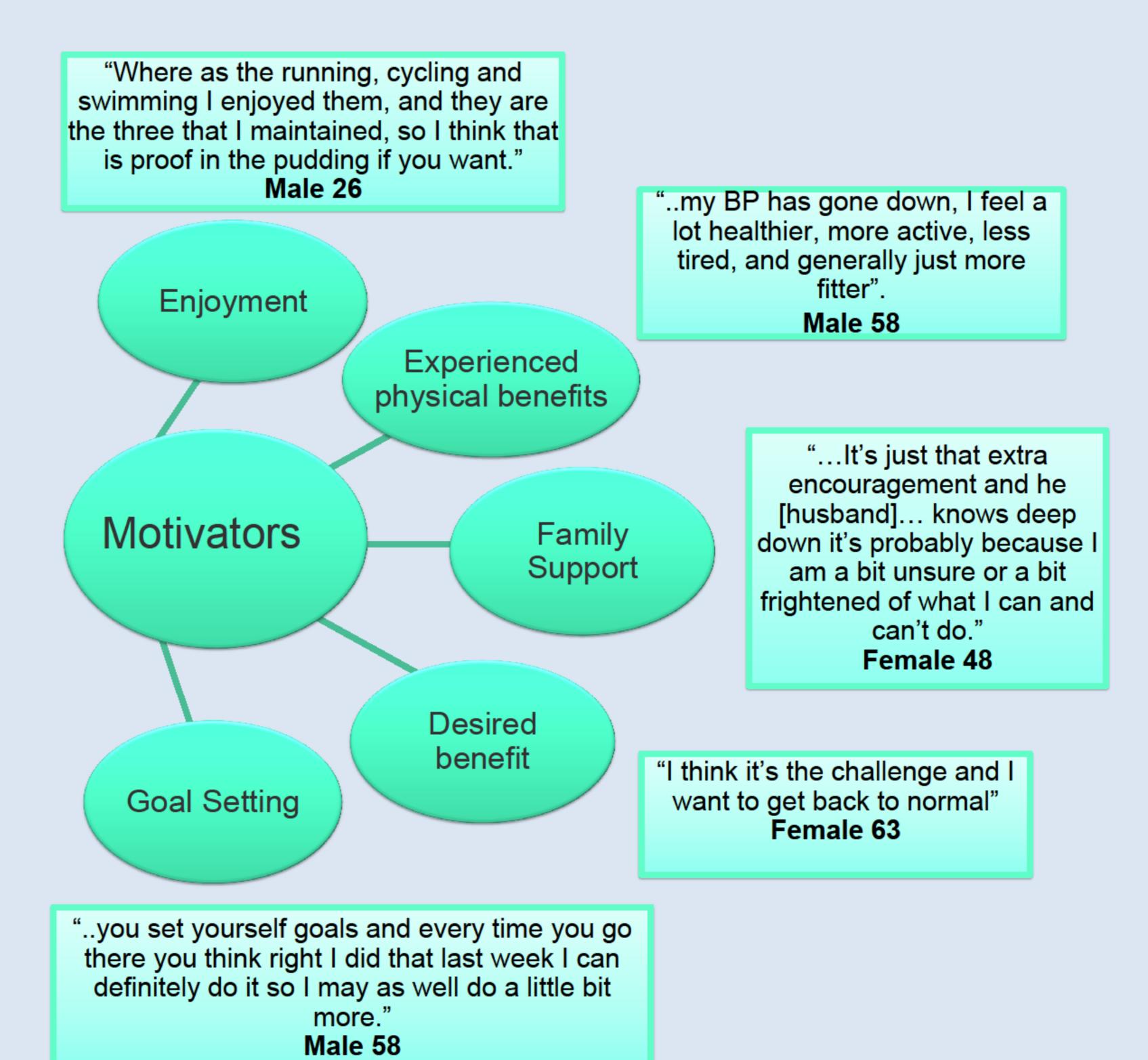
3 Focus groups and 22 semi-structured interview N=36 (20 male, mean age 64 years, SD=12.93, age range 26-83)

Results: Part 1

Patient readiness to change: SOCQ Pre-contemplation ■ Contemplation 22% 22% ■ Preparation 24% ■ Action 27% Maintenance



- SE was lower for patients who were in the earlier stages of change compared to the later stages (Z=-4.81, P<0.05).
- SE was positively correlated to SOC (rho=0.517, P<0.001), this correlation remained significant when controlling for age (rho=0.503, P<0.001 and CKD stage (rho=0.477, P<0.001).



Conclusions

- The majority of CKD patients are in a receptive stage where they would benefit from a CKD Specific health behaviour change programme.
- Low SE is an important factor for patients readiness to change or adopt greater amounts of exercise.
- Patients presented a number of cognitive, behavioural and physical barriers to change but enhancing feelings of autonomy and relatedness has the potential to facilitate change.

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