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Letter to the Editor

The functional decline of hospitalised older patients – are we doing enough?

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A recently published paper found that higher levels of physical activity (PA) and fitness were associated with better Health Related Quality of Life (HRQOL) in older people recently discharged from hospital [1]. The authors recommend, “physical activity...while in hospital ...may be important in order to encourage patients to actively preserve independence and HRQOL”, specifically “targeting those with lower levels of physical activity....and multiple comorbidities”. Studies have shown small positive benefits from additional exercise for older medical patients [2-4] and further meta-analysis suggested that targeting the frailer might strengthen the effects seen [5].

We conducted a small study in 2011 to measure the effects of an augmented prescribed exercise program (APEP) for frail medical acute in-patients [6]. We recruited 40 frail patients who were aged ≥ 65 years, had an anticipated LOS > 3 days, due for discharge home and needed a walking aid on admission. We allocated them to a usual care group (control) consisting of three physiotherapy sessions weekly or the APEP group consisting of usual care augmented with two assisted exercise-sessions daily, Monday-Friday. The research physiotherapist delivered the exercise prescription which included strengthening, balance and endurance exercises.

We analysed a complete data set for 17 of the control group and 15 of the APEP group using the Mann-Whitney U non-parametric Test (Matlab ® R2011B). We found a median length of stay (LOS) of 10 days (IQR=8-12 days) for the APEP group compared to a median LOS of 12 days (IQR=9-15 days) for the control group (p=0.17, intention-to-treat analysis, p=0.21). At discharge, the APEP group showed better physical performance (Short Physical Performance Battery, p=0.03) and HRQOL (EQ-5D Activity, p=0.02, Visual Analogue Scale, p=0.001). Exercise adherence was over 68% (SD=26.5%) in the APEP group. We now plan to study a larger cohort of 220 patients as part of a funded RCT.

This intervention is not complex, easy to deliver in the busy clinical setting, and could potentially transform services for the frail patient.
We can still do better. Motivating patients to remain active in hospital, especially independently, is challenging. It requires a change in approach from the interdisciplinary team rather than additional resources. As part of the study, we conducted semi-structured interviews with all the participants, [7] which revealed that the hospital environment encourages inactivity, and that patients waited for instruction to exercise, especially from their doctor. They admitted that they needed motivation to participate in the APEP but found it beneficial, especially when the exercises were targeted to the patients’ self-selected goals. These findings are similar to previous work [8, 9] and Brown et al recently found that hospital patients’ physical performance improved if they are simply supported in selecting and reaching their own mobility goals [10].

In the upcoming RCT, we plan to incorporate patient-selected goals in a twice-daily exercise program and support independent physical activity. We hope that the addition of this simple intervention will help shorten the hospital stay, and preserve independence and quality of life for the frail older adult.

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References


