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Exercise Programs in the Outpatient Dialysis Clinic

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Background: Patients with ESRD undergoing hemodialysis receive 3-4 hours of treatment 3 days a week in the outpatient dialysis clinic. This patient population is known to have issues with fatigue (Motedayen, 2014) and poor functional capacity and quality of life (Sheng, 2014). Intradialytic exercise such as bicycling, resistance training and combined exercise programs are known to help with physical functioning, quality of life, and fatigue (Anding, 2015; Johansen, 2007; Motedayen, 2014).

Purpose: To implement a 12-week exercise program during outpatient dialysis treatment, assess feasibility of such program, impact on patients self-perceived well-being as well as objective measures like muscle strength.

Method: Patients were educated regarding the potential benefits of this therapy with the use of printed materials outlining the program concept. Nephrologists evaluated ESRD patients to determine medical stability prior to enrollment. A licensed physical therapist evaluated each participting patient, performed initial training and then follow up at the end of 12 weeks. Patients were asked to complete two different surveys at the beginning and the end of the program: the Fatigue Severity Scale, and Visual Analogue Pain Scale. Patients initiated the exercise program utilizing a stationary bike for 5-10 minutes and increased in 5-minute increments up to a maximum of 30 minutes per dialysis session.

Results: 25 patients have been enrolled in the program so far, and we will continue to enroll with a goal to reach at least 50 patients. Eight patients have completed the program and filled out pre- and post-surveys. The number of patients is too small to analyze the results, but there is at least a trend for improvement in fatigue scores at the end of the program. All 25 patients have completed pre-program physical therapy assessments, but only a handful have completed post exercise assessments so far. All participating patients expressed positive comments about the program.

Conclusions: Implementation of exercise during dialysis in an out-patient hemodialysis clinic is feasible and may be associated with improvement in patient well-being

References

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