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TABLE OF CONTENTS

Cover	
Preface	
The Committee	iv
Abstract from Keynote Speakers	vi
Conference Schedule	X
Oral Presentation Schedule	xi
Abstract and Full Texts of Oral Presentation	
1. Yohanes Gamayana Trimawang Aji, Yulia, Lestari Sukmarini	1-9
2. Hertuida Clara	10-13
Desak Wayan Siti Suarse Dewi	16-29
4. Iga Dewi Purnamawati	30-37
5. Ayuda Nia Agustina	38-55
6. Fitri Annisa	56-65
7. Putri Permata Sari, Irna Nursanti, Giri Widakdo	66-72
8 Ira Sukvati Setvowati Wiwit Kurniawati	72 94



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BENEFITS OF INTRADIALYTIC EXERCISE TO INCREASE MUSCLE STRENGTH, PREVENT MUSCLE MASS LOSS ON CHRONIC RENAL FAILURE PATIENTS ON HEMODIALYSIS: REVIEW

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Abstract

Introduction: Prolonged exposure to hemodialysis treatments has a catabolic effect on muscles also compounding this expedited muscle loss associated decrease quality of life. The aim of this study is to investigate the benefits of intradialytic exercise programs, specifically on increase muscle strength and physical function. Methods: search in PubMed, ProQuest, and MEDLINE (EBSCO) about intervention intradialytic exercise program of CRF patients impairment muscle strength. Studies included intradialytic exercise program randomized controlled trials study design. Result: Most studies included in this review focused on intradialytic exercise program. These intervention program seems to increase muscle strength and improved physical function, and less decline in muscle cramp. Conclusion: Patients with CRF on hemodialysis need to do intradialytic exercise program. In addition, standardization of intradialytic exercise program, outcome and evaluation for patients with CRF on hemodialysis especially on muscle strength and muscle cramp, muscle mass, physically function is needed for further studies.

Keywords: Hemodialysis, intradialytic exercise, muscle strength, randomized controlled trials, review

Introduction

Chronic renal failure (CRF) patients is associated to reduce muscle mass and decrease muscle strength and poor quality of life (Hsu et al., 2014). Patients with CRF experience a high symptom burden. The most common reported symptoms in non-dialysis-dependent (NDD)-CRF patients include fatigue, sleep difficulties, muscle weakness, restless legs, pruritus (i.e. itching) and bone or joint pain. This increased incidence of debilitating

symptoms accentuates the reduced healthrelated quality of life in these patients, and high symptom burden is associated with increased hospitalization and mortality (Wilkinson et al., 2019).

Hemodialysis is one of the replacement therapy on CRF patients. In the past three decades, the number of patients undergoing maintenance dialysis globally has increased dramatically. In 2010, it was estimated that the number of patients on dialysis was more than 2 million

worldwide, and modelling data suggest this number will be more than double by 2030. Several factors have contributed to the increase: increase in the incidence of CRF, broadening of kidney replacement therapy acceptance criteria, and greater access to maintenance dialysis in low- and middle-income countries (C. T. Chan et al., n.d.), 2019.

Patients with CRF undergoing hemodialysis suffer changes in their daily life, becoming dependent on continuous therapy, in addition to its periodical procedures, makes the patient live with uncomfortable symptoms such as nausea, vomiting, hypotension and fatigue. These processes are accelerated in elderly dialysis patients since both the uremic environment and aging cause loss of muscle mass and function that together predispose these patients to frailty (K. N. Chan et al., 2019). Pain due to muscle cramp is a common complication during hemodialysis (Poornazari, Roshanzadeh, Parsa, & Tajabadi, 2019). Studies have shown that exercise can reduce pain and fatigue through reduction of muscle stiffness and sensitivity, and improvement of blood flow.

Intradialytic exercise is defined as exercise training performed during hemodialysis to increase strength and endurance of CRF patients. (Poornazari et al., 2019). Current recommendations are regular exercise and adequate nutrient intake to prevent and manage aging-related adverse events in maintenance hemodialysis include provision of patients. The effects of exercise on CRF patients are to improve their physical potential.

There is limited information on mechanisms underlying the salutary effect of exercise patients with CRF. Moreover, the precise association between muscle wasting, loss of function and poor long-term outcomes in elderly CRF patients remains to be fully explored. Thus, there is a need for large-scale studies to establish the true benefits of exercise in this population. In addition, we postulate that the provision of a high calorie leucine-rich protein supplement at the time of acute exercise will enhance exercise-stimulated anabolic signaling.

Several studies have shown positive effect of intradialytic exercise, the implementation of a specific exercise program during dialysis is strongly desirable. Resistance training is considered as effective method in the prevention of muscle functional loss

among dialysis patients, A study has analyzed the effects of intradialytic resistance training on the patient's lower extremity muscle functions (Zelko et al., 2019). In addition, renal function in patients with CRF is almost completely lost, and as the disease worsens. symptoms associated with sarcopenia such as muscle atrophy, decreased muscle strength, and decreased muscle function gradually appear. Different methods of intradialytic exercise in chronic renal failure patients has showed benefits (Dong, Zhang, & Yin, 2019). International physical activity according to the evaluation of patient's sitting, walking, cycling and running, also showed benefits. Other study on strength physical exercise is a new therapeutic approach to reduce complication in renal failure patients and the effect of acute intradialytic strength physical (Esgalhado et al., 2015). Regarding result of a study (Lopes et al., 2019) with 12 weeks of intradialytic resistance therapy was performed three times per week. The training groups were high-load intradialytic group (8-10 repetitions), moderate-load intradialytic group (16-18 repetitions), and control group (stretching exercise). Other study of (Poornazari, Dehghani, Shahbazi, & Khaledi Sardashti, 2017) that the isotonic exercise combine

included 10 sessions of exercise with a stationary bicycle lasting 10 minutes before hemodialysis. Data analysis using statistical, t test, and analysis of variance (ANOVA) were used for comparison of means of variables.

This evaluate the effect the groups after the isotonic exercise program (P < 0.001), the frequency of muscle cramp in the in the experimental goup was significanly lower after the intervention, improving fatigue and daily physical activity levels among 'CRF patients. Measurement on a muscle scale strength and a physical activity were done at the time of enrollment, and again on the eighth weeks until twelve weeks. we expect that exercise therapy will increase muscle strength and reduce muscle mass loose and improve psychosocial health, strength, balance and counteract muscle wasting and reduce cardiac risk factors. Together, these measures should allow us to determine whether the home-based regimen is effective exercise counteracting loss of muscle function and mass common in elderly maintenance hemodialysis patients, along reducing cardiovascular risk.

Methods

Searching strategy potential studies resources PubMed, ProQuest, MEDLINE (EBSCO), International Journal, databases were searched from December 2018 to August 2020 more than 120 articles to selective regarding study on intervention intradialytic exercise program CRF patients impairment muscle strength because each HD treatment contributes to a loss of amino (Parker, 2016). Studies were included following criteria (1) investigated intradialytic exercise program (2) Randomized controlled trials (RCT) study design, (3) study were included CRF patients following hemodialysis (4) the full-text article was available in English. Article selection: identified inclusion criteria 10 studies examined the title, abstract, method, result and conclusion regarding intradialytic exercise on CRF patients. All studies were full text review, RCT included methodology, significant result and conclusion that intradialytic exercise. Start searching 200 articles only 10 articles validity assessment performed using in this review articles were good quality stdies level.

Diagram I Flate diagram of the temporar process.

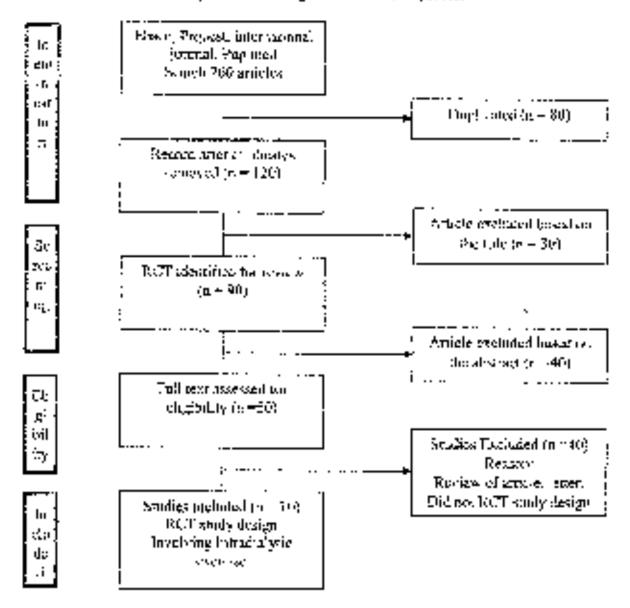


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Result

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stratatury subjects in the exterol group. Only active subjects on the experimental group detarms states at more seem actively levels.

Discussion

The exercise of process undergoing mufalitzanea dialyees globally increased dramatically estimated that the member of patients on dialysis were more Just 2 million worldwide, and modelling. data soggest des number will more étandouble by 1930. Patients with descrip-4cmal − Faiture KCRED eracigoiag benned algoris on her objected in their daily irlig historiang department on real name. parindropt raphibra pai data therapy. propolings. The patient long with totenic ântidos symptestis Anéri as nonsea; Violenting, Egypticosion and taligme. Which may lead to represse companiand loss of nussele total and thoselon that will be prior spoke 1 process to fittility (K. N. Coaner al., 1909's Park due un intestie champile. comman. enmp.isadow hemodolyks (Pournzenn et et., 2019). latraciatatio exercise is perform exercise. fracting during hemodialysis to increase patients muscle strength and endurance Charge Retmi l-ni!-L/e aerier a (Pacimozor, 2004).

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Same studies have shown that example can reduce pain and langue showing reduction of muscle midfless, and improvement blood flow. Current recommendations regular exercise and adequate succiew lessive to prevent end manage aging, related adverse events in Maintenance Cemodialysis patients. The effects of eventise on chronic kidney disease patients increase muscle strength and decrease muscle crump for improving their physical potential.

Eineckerforn.

The many reasons for lew levels of physical activity in CTC on Establishysis, three taxons contribute mosts (1) Reduced mustus intengal, caused by muscle establish, and wasting, (2) increased

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Promise coming the full sessions well reduce the stasis of circulation which promise salous removal by anticesory muscle strength, blood flow and off is of urea and office examination flow and office of compartment where they can up removed. Exercise for CRF political helps on improvement of anotial stickness discretion pulse pressure, increase expending the first distribution which heads to promote sportic corporate.

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