



POSTER PRESENTATION

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The role of clinical pilates exercises in children with juvenile idiopathic arthritis: a pilot study

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Background

Juvenile Idiopathic Arthritis (JIA) affects the quality of life to a significant degree causing the child to become less social. The family puts on an overprotective attitude. The importance of exercise is remarkable in these children. Clinical Pilates Exercises don't generate fatigue and help inhibition of pain with respiratory control. This exercise is entertaining, and can be applied as a group. Even though pilates is used on adult rheumatic patients, there is no study in JIA.

Aim

To investigate the effects of Clinical Pilates Exercises on functional status, pain level, and general health perception in children with JIA.

Methods

The study included 23 children (14F;9M) with JIA. After obtaining demographics, Time-up&Go test (TUG), Time to go&back(10m)(GGT), the number of Sit-Stand up in 30 seconds, FACES Pain Scale, the child, family and physiotherapist global assessment Visual Analogue Scale (VAS), Childhood Health Assessment Questionnaire (CHAQ) was performed in all. Sedimentation rate (ESR) and C-reactive protein (CRP) were recorded. The same assessments were repeated after treatment. Therapy sessions were done thrice a week. The session included warm-ups, the main workout and cool down. The exercises consisted of clinical pilates exercises, dancing and body image affirmation exercises.

Results

The mean age was $11,46 \pm 2,84$ years. The mean duration of disease was $4,75 \pm 2,2$ years. 13 oligoarticular and 10 polyarticular type JIA included. After the treatment,

there were significant improvements in the Sit-Stand up test, FACES, ESR, CRP, the child and physiotherapist global assessment VAS scores ($P < 0,05$). TUG, GGT, CHAQ, the family global assessment VAS scores didn't change significantly ($P > 0,05$).

Conclusion

Clinical pilates exercises have shown positive effects on decreasing the pain, improving function and general health perception. Clinical Pilates Exercises can be considered as reliable exercise model in children with JIA.

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