

ID: 146

Scientific Abstract

--

Topics: Paediatric Rehabilitation

Keywords: Low Back Pain, Caregiver, Spinal Muscular Atrophy, Age, BMI

Association Of Low Back Pain In Caregivers Of Spinal Muscular Atrophy Patients With Patient's Age and BMI

Rian Dewi Auriani¹, Tertianto Prabowo², Ellyana Sungkar²

¹Padjadjaran University, Indonesia; ²Hasan Sadikin General Hospital

Background and Aims

Spinal Muscular Atrophy is a genetic disease that will affect functional ability progressively and most likely caregiver-dependent for rest of their life. This study investigates the incidence of low back pain in caregivers of Spinal Muscular Atrophy (SMA) type II children and its association with children's age and Body Mass Index (BMI).

Methods

A cross-sectional study was done to caregivers (36.7 ± 4.62 years old) of eleven children (8.45 ± 2.98 years old) with SMA Type II in West Java Province, Indonesia. The measurement was evaluated by using the Standardised Nordic Questionnaire. Data were taken between December 2018 to January 2019.

Results

The incidence of low back pain among these caregivers is 54,54% (6 of 11). Average of children's age and BMI is (8.45 ± 2.98 years old) and (16.91 ± 3.94 kg/m²) respectively. There was no significant association between incidence of low back pain and children's age (*f*-ratio value = 0.41681, *p*-value = 0.53), nor their BMI (chi-square 0.24, *p*-value = 0.62).

Conclusions

The incidence of low back pain in caregivers SMA patients is about 54,54% and there is statistically no significant association with age and BMI of their children.