

**HUBUNGAN KEMAMPUAN MOTORIK HALUS DALAM
MENYIKAT GIGI DENGAN KEBERSIHAN GIGI
DAN MULUT ANAK *DOWN SYNDROME*
SDLB KOTA TASIKMALAYA**

ABSTRAK

Latar Belakang: Kesehatan gigi dan mulut masih menjadi masalah tinggi, terutama pada anak berkebutuhan khusus seperti *down syndrome*. Keterbatasan motorik halus pada anak *down syndrome* dapat memengaruhi kemampuan menyikat gigi sehingga berdampak pada kebersihan gigi dan mulut. Menyikat gigi membutuhkan koordinasi motorik halus dan sensorik yang baik agar proses pembersihan gigi dapat dilakukan secara optimal. Keterbatasan kemampuan motorik halus pada anak *down syndrome* dapat menyebabkan kesulitan dalam memegang dan menggerakkan sikat gigi dengan tepat sehingga meningkatkan risiko terjadinya plak, karies gigi, dan penyakit periodontal. Tingginya prevalensi masalah kesehatan gigi dan mulut pada anak *down syndrome* menunjukkan pentingnya perhatian terhadap faktor-faktor yang memengaruhi kebersihan gigi dan mulut, salah satunya kemampuan motorik halus. **Tujuan:** Penelitian ini bertujuan untuk mengetahui hubungan kemampuan motorik halus dalam menyikat gigi dengan kebersihan gigi dan mulut anak *down syndrome* di SDLB Kota Tasikmalaya. **Metode:** Deskriptif analitik dengan pendekatan *cross sectional*. Menggunakan *random sampling* dengan jumlah sampel 35 siswa anak *down syndrome* SDLB Kota Tasikmalaya. Alat ukur penelitian ini adalah lembar observasi dan lembar pemeriksaan, analisis data menggunakan uji *rank spearman*. **Hasil:** Uji statistik didapatkan nilai *correlation coefficient* sebesar -0,691 dengan nilai *signifikansi (p-value)* sebesar $0,000 < 0,05$. **Kesimpulan:** Terdapat hubungan kemampuan motorik halus dalam menyikat gigi dengan kebersihan gigi dan mulut anak *down syndrome* SDLB Kota Tasikmalaya, yang dibuktikan dengan hasil uji *Rank Spearman* yang signifikansi dengan $P\ value = 0,000 < 0,05$ dan nilai kolerasi -0,691 dengan kekuatan *correlation coefficient* kuat dan arah hubungan *negative*.

Kata Kunci: Motorik halus dalam menyikat gigi, debris indeks, anak *down syndrome*

Referensi: 64 sumber (2012-2025)

**THE RELATIONSHIP BETWEEN FINE MOTOR ABILITIES IN
TEETH BRUSHING AND DENTAL AND ORAL HYGIENE
IN CHILDREN WITH DOWN SYNDROME
IN SDLB TASIKMALAYA CITY**

ABSTRACT

Background: Dental and oral health is still a high problem, especially in children with special needs such as Down syndrome. Fine motor limitations in children with Down syndrome can affect the ability to brush their teeth, resulting in an impact on dental and oral hygiene. Brushing teeth requires good fine motor and sensory coordination so that the dental cleaning process can be carried out optimally. Limited fine motor skills in children with Down syndrome can cause difficulty in holding and moving the toothbrush appropriately, increasing the risk of plaque, dental caries, and periodontal disease. The high prevalence of dental and oral health problems in children with Down syndrome shows the importance of paying attention to factors that affect dental and oral hygiene, one of which is fine motor skills. **Objective:** This study aims to determine the relationship between fine motor ability in brushing teeth and the dental and oral hygiene of children with Down syndrome in SDLB Tasikmalaya City. **Methods:** Descriptive analysis with a cross sectional approach. Using random sampling with a sample of 35 children of down syndrome children of SDLB Tasikmalaya City. The measuring tools of this study are observation sheets and examination sheets, data analysis using the spearman rank test. **Results:** The statistical test obtained a correlation coefficient value of -0.691 with a significance value (p-value) of $0.000 < 0.05$. **Conclusion:** There is a relationship between fine motor ability in brushing teeth and dental hygiene of children with down syndrome SDLB Tasikmalaya City, which is evidenced by the results of the significant Spearman Rank test with a p-value = $0.000 < 0.05$ and a correlation value of -0.691 with a strong coefficient correlation strength and a negative relationship direction.

Keywords: Fine motor in brushing teeth, index debris, child down syndrome

References: 64 sources (2012-2025)