

# Hubungan antara Stunting dengan Kadar Hemoglobin (Hb), Insulin Like Growth Factor-1 (IGF-1), dan Erupsi Gigi : Tinjauan Sistematis = Stunting and its Relationship with Hemoglobin (Hb) Levels, Insulin Like Growth Factor-1 (IGF-1), and Tooth Eruption : Systematic Review

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## Abstrak

Latar Belakang : Stunting merupakan salah satu manifestasi dari malnutrisi kronis yang ditandai dengan tinggi badan yang lebih rendah dari standar tinggi badan untuk usia individu tersebut. Salah satu faktor penyebab stunting adalah kurangnya asupan nutrisi. Kurangnya asupan nutrisi dapat menyebabkan berkurangnya kadar Hb dan IGF-1. Berkurangnya asupan nutrisi juga dapat mengganggu proses pertumbuhan dan perkembangan gigi yang dapat mempengaruhi waktu erupsi gigi. Perlu dilakukan analisis untuk melihat hubungan antara stunting dengan kadar Hb, IGF-1, dan erupsi gigi. Tujuan : Menganalisis hubungan antara kadar Hb, IGF-1, dan erupsi gigi dengan kondisi stunting. Metode : Penelusuran literatur dilakukan dengan menggunakan pedoman Preferred Reporting Items for Systematic Reviews and Meta-Analysis (PRISMA) pada tiga electronic database, yaitu : PubMed, EBSCO, dan SCOPUS. Kualitas dari literatur dinilai menggunakan QUADAS-2 tool. Hasil : Terdapat 27 artikel yang terpilih berdasarkan kriteria inklusi dan eksklusi yang telah ditetapkan. 19 artikel menyatakan bahwa terdapat hubungan antara kadar Hb dengan stunting, dimana anak dengan kondisi stunting lebih memungkinkan untuk memiliki kadar Hb yang rendah (anemia). 4 artikel menyatakan bahwa terdapat hubungan antara kadar IGF-1 dengan stunting, dimana anak dengan kondisi stunting memiliki kadar IGF-1 yang lebih rendah dibandingkan dengan anak non-stunting. 3 artikel menyatakan bahwa terdapat hubungan antara stunting dengan erupsi gigi, dimana anak dengan kondisi stunting mengalami keterlambatan erupsi gigi. 1 artikel menyatakan bahwa tidak ada hubungan antara stunting dengan pertumbuhan dan perkembangan gigi. Kesimpulan : Terdapat korelasi positif antara stunting dengan kadar Hb dan IGF-1. Korelasi antara stunting dengan erupsi gigi belum dapat ditentukan dengan pasti

.....Background : Stunting is a manifestation of chronic malnutrition which is characterized by a lower height than the individual's age standard. One of the primary cause of stunting is the lack of nutritional intake. Lack of nutritional intake can cause reduced Hb and IGF-1 levels. Lack of nutritional intake can also interfere with the process of growth and development of the teeth which can affect the timing of tooth eruption. An analysis is needed to see the relationship between stunting and levels of Hb, IGF-1, and the timing of tooth eruption. Objective : To analyze the relationship between Hb levels, IGF-1 levels, and the timing of tooth eruption with stunting. Method : Literature research was carried out using the Preferred Reporting Items for Systematic Reviews and Meta-Analysis (PRISMA) guidelines on three electronic databases, namely: PubMed, EBSCO, and SCOPUS. The quality of the literature was assessed using the QUADAS-2 tool. Results : There are 27 articles that were selected based on predetermined inclusion and exclusion criteria. 19 articles state that there is a relationship between Hb levels and stunting, where stunted children are more likely to have low Hb levels (anemia). 4 article states that there is a relationship between IGF-1 levels and stunting, where stunted children have lower IGF-1 levels compared to non-stunted children. 3 The article states that there is a relationship between stunting and tooth eruption, where stunted

children experience delays in tooth eruption. 1 article states that there is no relationship between stunting and dental growth and development Conclusion : There is a positive correlation between stunting and Hb and IGF-1 levels. The correlation between stunting and tooth eruption cannot be determined with certainty.