

THE EFFECTIVENESS OF DENTAL MEDIA ON DENTAL CARIES IN INCREASING KNOWLEDGE AND INTEREST IN DENTAL FILLINGS

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ABSTRACT

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Background: Dental caries is a tooth hard tissue disease caused by bacterial activity on fermentable carbohydrates. A preliminary study at SMA N 1 Sewon Bantul showed that students had never received dental health education. The 2023 Indonesian Health Survey reported that the prevalence of cavities was 43.6% nationally and 41.7% in Yogyakarta. Dental health promotion through digital media such as e-leaflets can be an effective and engaging way to deliver information to students.

Objective: To determine the effectiveness of e-leaflet media about dental caries on knowledge and interest in undergoing dental fillings.

Method: This quantitative study used a quasi-experimental one-group pretest–posttest design. The population consisted of 360 students, with 86 respondents selected through purposive sampling. The research was conducted at SMA N 1 Sewon Bantul, Yogyakarta, in July 2025. The study variable was the promotion of dental health using e-leaflet media to improve knowledge about dental caries and interest in tooth filling. Data were collected through pretest and posttest questionnaires and analyzed using the Wilcoxon Signed Rank Test.

Results: Students' knowledge of dental caries before using the e-leaflet was found to be adequate, and their interest in filling was low. Students' knowledge of dental caries after using the e-leaflet was found to be good, and their interest in filling was high. The Wilcoxon Signed Rank Test showed a significance value of 0.000

Conclusion: *E-leaflet* media had an effect on knowledge about dental caries and interest in undergoing dental fillings

Keywords: promotion, *e-leaflet*, knowledge, tooth cavity, dental filling

EFEKTIVITAS MEDIA *E-LEAFLET* TENTANG KARIES GIGI DALAM MENINGKATKAN PENGETAHUAN DAN MINAT PENUMPATAN GIGI

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ABSTRAK

Latar Belakang: Karies gigi merupakan penyakit jaringan keras gigi yang disebabkan oleh aktivitas bakteri dalam suatu karbohidrat yang dapat diragikan. Hasil studi pendahuluan di SMA N 1 Sewon Bantul siswa belum pernah mendapat penyuluhan tentang kesehatan gigi dan mulut. Berdasarkan Survey Kesehatan Indonesia (SKI) 2023 menunjukkan prevalensi masalah kesehatan gigi di Indonesia yang mengalami gigi berlubang sebesar 43,6% dan pada Daerah Istimewa Yogyakarta 41,7%. Promosi kesehatan gigi dengan memanfaatkan media digital seperti *e-leaflet* dapat menjadi alternatif penyampaian informasi yang menarik dan efektif bagi siswa.

Tujuan: Diketuainya efektivitas media *e-leaflet* tentang karies gigi dalam meningkatkan pengetahuan dan minat melakukan penumpatan gigi.

Metode: Penelitian ini merupakan jenis penelitian kuantitatif dengan desain *Quasi Eksperimental One group pretest – post test design*. Total populasi yaitu 360 responden dengan pengambilan sampel menggunakan teknik *Purposive Sampling* didapatkan jumlah 86 responden. Penelitian dilaksanakan di SMA N 1 Sewon Bantul pada bulan Juli 2025 di Jl.Parangtritis Km.5 Bantul, Kota Yogyakarta, Daerah Istimewa Yogyakarta. Variabel penelitian adalah efektivitas media *E-leaflet* dalam meningkatkan pengetahuan tentang karies gigi dan minat melakukan penumpatan gigi. Pengumpulan data menggunakan kuesioner *pretest* dan *Postesst*. Analisis data menggunakan uji *Wilcoxon Signed Rank Test*.

Hasil: Pengetahuan tentang karies gigi pada siswa sebelum menggunakan media *e-leaflet* memiliki kriteria cukup dan minat penumpatan kriteria rendah. Pengetahuan tentang karies gigi pada siswa sesudah menggunakan media *e-leaflet* memiliki kriteria baik dan minat penumpatan kriteria tinggi. Hasil uji *Wilcoxon Signed Rank Test* menunjukkan nilai signifikansi 0,000

Kesimpulan: Media *e-leaflet* efektif dalam meningkatkan pengetahuan tentang karies gigi dan minat melakukan penumpatan gigi.

Kata Kunci: *E-leaflet*, Pengetahuan, Karies Gigi, Penumpatan Gigi