

THE EFFECT OF AMERGI E-BOOK EDUCATION ON THE LEVEL OF KNOWLEDGE AND INTEREST IN CONDUCTING PLACEMENT IN TEENS

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ABSTRACT

Background: WHO states that 90% of Indonesians still suffer from dental and oral diseases. The results of the 2023 Indonesian Health Survey showed that the prevalence of the population of the DI Yogyakarta province who had cavities aged 15-24 years was 36%. A preliminary study conducted at SMA N 1 Sewon on grade X students obtained data that 70% had dental caries and 60% had not had their teeth filled.

Objective: To determine the effect of education using the AMERGI E-Book media on the level of knowledge and interest in having teeth filled.

Method: The design of this study was a quasi-experimental study with a Pretest Posttest With Control Group design, sampling using purposive sampling with a sample size of 60 sample respondents divided into two groups: the experimental group and the control group. The study was conducted in May 2025. The location of the study was at SMA Negeri 1 Sewon. The data collection technique used a questionnaire. Data analysis used the Wilcoxon test and the Mann-Whitney test.

Results: The frequency of knowledge level is mostly good criteria (83.3%) and the interest in performing tooth filling is mostly high interest (80%). The Wilcoxon test showed a significant difference before and after being given education about tooth caries using the AMERGI E-Book media with a p value <0.05. The Mann Whitney test showed a significant difference between education using the AMERGI E-Book and e-leaflet on knowledge and interest in performing filling obtained a p value <0.05

Conclusion: Education using the AMERGI E-Book media has an effect on increasing knowledge and interest in performing filling in adolescents.

Keywords: Education, E-Book, Tooth Caries, Filling, Knowledge, Interest

PENGARUH EDUKASI E-BOOK AMERGI TERHADAP TINGKAT PENGETAHUAN DAN MINAT MELAKUKAN PENUMPATAN PADA USIA REMAJA

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ABSTRAK

Latar Belakang: WHO menyatakan penyakit gigi dan mulut masih diderita 90% penduduk Indonesia. Hasil Survei Kesehatan Indonesia 2023 prevalensi penduduk provinsi DI. Yogyakarta yang memiliki masalah gigi berlubang usia 15-24 tahun sebesar 36%. Studi pendahuluan yang dilakukan di SMA N 1 Sewon pada siswa kelas X diperoleh data 70% mengalami karies gigi dan 60% belum melakukan penumpatan gigi.

Tujuan: Diketuainya pengaruh edukasi menggunakan media *E-Book* AMERGI terhadap tingkat pengetahuan dan minat melakuakn penumpatan gigi.

Metode: Desain penelitian ini adalah *quasi eksperiment* dengan rancangan *Pretest Posttest With Control Group*, pengambilan sampel menggunakan *purposive sampling* dengan jumlah sampel 60 responden sampel dibagi menjadi dua kelompok: kelompok eksperimen dan kelompok kontrol. Penelitian dilakukan di bulan Mei 2025. Lokasi penelitian di SMA Negeri 1 Sewon. Teknik pengumpulan data menggunakan kuesioner. Analisis data menggunakan uji *Wilcoxon* dan Uji *Mann-Whitney*.

Hasil: Frekuensi tingkat pengetahuan paling banyak kriteria baik (83,3%) dan minat melakukan penumpatan gigi paling banyak yaitu minat tinggi (80%). Uji *Wilcoxon* menunjukkan terdapat perbedaan bermakna sebelum dan setelah diberikan edukasi tentang karies gigi menggunakan media *E-Book* AMERGI dengan nilai $p < 0,05$. Uji *Mann Whitney* menunjukkan terdapat perbedaan bermakna antara edukasi menggunakan *E-Book* AMERGI dengan *e-leaflet* terhadap pengetahuan dan minat melakukan penumpatan didapatkan nilai $p < 0,05$

Kesimpulan: Edukasi menggunakan media *E-Book* AMERGI berpengaruh terhadap peningkatan pengetahuan dan minat melakukan penumpatan pada usia remaja.

Kata Kunci: Edukasi, E-Book, Karies Gigi, Penumpatan, Pengetahuan, Minat