

**THE EFFECT OF “SIGEMKA” VIDEO MEDIA ON EARTHQUAKE
DISASTER PREPAREDNESS AMONG FAMILIES IN KUNDEN
BLAMBANGAN JOGOTIRTO BERBAH SLEMAN**

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ABSTRACT

Background: Indonesia is a country prone to earthquakes because it is located in the Pacific Ring of Fire and between three major tectonic plates. Family preparedness is crucial to minimize the impact of earthquake disasters. Educational media based on animation, such as the SIGEMKA (Siaga Gempa Bersama Keluarga) video, is expected to improve family knowledge and preparedness.

Purpose: This study aims to determine the effect of the SIGEMKA video media on earthquake disaster preparedness among families in Dusun Kunden, Blambangan Jogotirto, Berbah, Sleman.

Methods: This research used a quasi-experimental design with a non-equivalent control group approach. The sampling technique used in this study was purposive sampling, and the assignment of respondents to the experimental and control groups was conducted by random sampling, totaling 70 respondents. The research instrument was an earthquake preparedness questionnaire. Data analysis was performed using the Wilcoxon and Mann-Whitney tests.

Results: The results showed a significant increase in the level of family preparedness in the intervention group after being given education using the SIGEMKA video compared to the control group after being given education using pamphlets ($p < 0.05$).

Conclusion: The SIGEMKA video media is effective in improving earthquake disaster preparedness among families in Dusun Kunden. It is recommended that the SIGEMKA video be widely used as an educational tool for disaster preparedness in the community.

Keywords: Preparedness, Earthquake, Educational Video, SIGEMKA, Family

**PENGARUH MEDIA VIDEO “SIGEMKA” TERHADAP
KESIAPSIAGAAN BENCANA GEMPA BUMI PADA
KELUARGA DI DUSUN KUNDEN
BLAMBANGAN JOGOTIRTO
BERBAH SLEMAN**

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ABSTRAK

Latar Belakang: Indonesia merupakan negara yang rawan gempa bumi karena berada di wilayah Cincin Api Pasifik dan di antara tiga lempeng tektonik utama. Kesiapsiagaan keluarga sangat penting untuk meminimalkan dampak bencana gempa bumi. Media edukasi berbasis animasi, seperti video SIGEMKA (Siaga Gempa Bersama Keluarga), diharapkan dapat meningkatkan pengetahuan dan kesiapsiagaan keluarga.

Tujuan: Penelitian ini bertujuan untuk mengetahui pengaruh media video SIGEMKA terhadap kesiapsiagaan bencana gempa bumi pada keluarga di Dusun Kunden, Blambangan Jogotirto, Berbah, Sleman.

Metode: Penelitian ini menggunakan desain *quasi experiment* dengan pendekatan *non equivalent control group design*. Teknik pengambilan sampel yang digunakan dalam penelitian ini adalah *purposive sampling*, dan penentu kelompok eksperimen dan kelompok kontrol dengan random sampling sebanyak 70 responden. Instrumen penelitian berupa kuesioner kesiapsiagaan bencana gempa bumi. Analisis data menggunakan uji *Wilcoxon* dan *Mann-Whitney*.

Hasil: Hasil penelitian menunjukkan adanya peningkatan signifikan pada tingkat kesiapsiagaan keluarga di kelompok intervensi setelah diberikan edukasi menggunakan video SIGEMKA dibandingkan dengan kelompok kontrol setelah diberikan edukasi menggunakan *pamphlet* ($p < 0,05$).

Kesimpulan: Media video SIGEMKA efektif dalam meningkatkan kesiapsiagaan bencana gempa bumi pada keluarga di Dusun Kunden. Disarankan agar media video SIGEMKA digunakan secara luas sebagai sarana edukasi kesiapsiagaan bencana di masyarakat.

Kata Kunci: Kesiapsiagaan, Gempa Bumi, Video Edukasi, SIGEMKA, Keluarga