

ABSTRACT

DESIGNING 3D ENVIRONMENT FOR 2D ANIMATION AS AN EFFORT TO PREVENT HEMODIALYSIS IN YOUTH AGED 10–24 YEARS

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In recent months, Indonesia has seen a rise in cases of kidney dialysis among young people. Many children, teenagers, and young adults still neglect the consequences of excessive consumption of sugar and salt, lack of water intake, and physical inactivity. This study aims to reduce the number of dialysis cases in Indonesia through the use of educational animation media. The animation is designed to raise awareness among teenagers about the importance of maintaining kidney health through a healthy lifestyle, adequate water consumption, and regular physical activity. This study employs a qualitative method. Data were collected through surveys, interviews, observations, and literature review. The findings indicate that the use of appealing backgrounds or environments, along with appropriate animation techniques, is crucial in designing animated videos as a medium for social outreach. These elements can effectively increase teenagers' awareness of the importance of kidney health and a healthy lifestyle. The use of 3D environment techniques is essential to enhance realism and audience engagement. By incorporating 3D animation, the video can vividly depict kidney conditions and dialysis procedures, as well as the atmosphere of treatment rooms or clinics. This helps viewers, particularly teenagers, visually understand the importance of kidney care, making the message more comprehensible and memorable. It is expected that this approach can contribute to reducing the number of dialysis cases among young people.

Keywords: 3D Environment, animation, hemodialysis, dialysis, healthy lifestyle