APPLICATION OF HYDROGEL IN THE AUTOLYSIS PROCESS OF DIABETIC FOOT WOUNDS AT RUMAH RARA WOUNDCARE

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ABSTRACT

Background: *Diabetes Mellitus (DM) is a chronic metabolic disease with a steadily rising global prevalence. A frequent complication is the diabetic foot ulcer, which carries a risk of amputation or even death. Wound care plays a crucial role in preventing complications. However, conventional techniques which can delay healing remain widely used in Indonesia; consequently, modern dressing techniques utilizing hydrogel have been developed to accelerate autolysis and wound healing.* ***Objective:*** *To describe the outcomes before and after hydrogel application regarding the autolysis process of diabetic foot ulcers at Woundcare Rumah Rara.* ***Methods:*** *This study employed a descriptive case study design involving two respondents with diabetic foot ulcers. Hydrogel was applied over a 14-day period, with dressing changes performed three times weekly during 30-minute sessions.* ***Results:*** *A reduction in BWAT scores was observed in both respondents. Mr. J's score decreased from 45 to 29, while Mr. T's score dropped from 48 to 42, representing a reduction of 6–16 points.* ***Conclusion:*** *Hydrogel application effectively supports autolysis and accelerates diabetic foot ulcer healing, as evidenced by the decrease in BWAT scores and the progression of the wounds into the regeneration phase.*

Keywords: *Autolysis, Hydrogel, Diabetic_Foot_Ulcer, Modern Dressing.*