

**SISTEM PAKAR DIAGNOSIS GIZI BURUK PADA BALITA
MENGUNAKAN METODE *DEMPSTER-SHAFER*
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ABSTRACT

Malnutrition in children under five has pathophysiological impacts, including protein energy deficiency, anemia due to iron deficiency, disorders due to iodine deficiency, and vitamin A deficiency. This causes various consequences such as growth disorders, decreased resistance to infection, low level of intelligence, decreased physical abilities, impaired physical and mental growth, stunting, blindness, and even death in toddlers. Factors causing malnutrition can be direct or indirect. Indirect causes include lack of food intake both in terms of quantity and quality, the presence of infectious diseases, congenital defects, or disease conditions such as cancer. Meanwhile, the direct causes include food availability in the household, behavior, and health services. In addition to health factors, factors such as poverty, low education, food availability, and employment opportunities also contribute to the main problem of malnutrition. In this research, it is proposed to develop an expert system based on the Dempster-Shafer method to identify malnutrition in toddlers. System testing shows an accuracy rate of 100%. This expert system application can be used to diagnose malnutrition in toddlers.

Keywords : *Expert System, Malnutrition, Dempster-Shafer*