

IMPLEMENTASI METODE SMART PADA SISTEM PENDUKUNG KEPUTUSAN RISIKO KEHAMILAN DI PRAKTIK MANDIRI BIDAN

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ABSTRAK

Risiko kehamilan merupakan faktor penting yang perlu diperhatikan dalam upaya menjaga keselamatan ibu dan bayi. Dalam praktik mandiri bidan, penilaian risiko kehamilan masih sering dilakukan secara manual dan bergantung pada pengalaman bidan, sehingga berpotensi menimbulkan perbedaan dalam pengambilan keputusan. Penelitian ini bertujuan untuk membangun sistem pendukung keputusan dalam menentukan risiko kehamilan menggunakan metode Simple Multi Attribute Rating Technique (SMART). Sistem ini mengolah data kondisi ibu hamil berdasarkan kriteria dan subkriteria yang telah ditentukan. Pengembangan sistem dilakukan menggunakan metode Waterfall yang meliputi tahap analisis, desain, kode, implementasi, pengujian, dan pemeliharaan. Pengujian sistem dilakukan dengan membandingkan hasil keputusan sistem dengan penilaian bidan. Hasil pengujian menunjukkan tingkat akurasi sebesar 88%, sehingga keputusan yang dihasilkan sistem yang diukur cukup mendekati penilaian bidan. Sistem ini diharapkan dapat membantu bidan dalam menilai risiko kehamilan secara lebih terstruktur.

Kata Kunci: Sistem Pendukung Keputusan, Risiko Kehamilan, Metode SMART

IMPLEMENTATION OF SMART METHOD IN PREGNANCY RISK DECISION SUPPORT SYSTEM IN INDEPENDENT MIDWIFE PRACTICE

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ABSTRACT

Pregnancy risk is a crucial factor to consider in ensuring the safety of both mother and baby. In midwifery practice, pregnancy risk assessments are often performed manually and rely on the midwife's experience, potentially leading to differences in decision-making. This study aims to develop a decision support system for determining pregnancy risk using the Simple Multi-Attribute Rating Technique (SMART) method. This system processes data on pregnant women's conditions based on predetermined criteria and sub-criteria. The system was developed using the Waterfall method, encompassing analysis, design, coding, implementation, testing, and maintenance. System testing was conducted by comparing the system's decision results with the midwife's assessment. The test results showed an accuracy rate of 88%, indicating that the system's decisions were measured quite closely to the midwife's assessment. This system is expected to assist midwives in assessing pregnancy risk in a more structured manner.

Keywords: *Decision Support System, Pregnancy Risk, SMART Method*