

**Sistem Deteksi Dini Anemia Pada Remaja Putri Di Kabupaten Bojonegoro
Dengan Metode *Certainty Factor* (Anemia early detection system for young
women in Bojonegoro district with the certainty factor method)
Pembimbing (1 orang)**

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ABSTRACT

Anemia is a health problem that is often ignored because the symptoms of anemia have been considered commonplace by young women, while the long-term effects of anemia itself are very diverse if not prevented early. The use of website-based information technology was chosen as a solution in helping problems in the health sector, with the creation of an early detection system for anemia in adolescent girls that applies an expert system with the certainty factor method. The certainty factor method is a branch of artificial intelligence that adopts the way of thinking of an expert in solving a problem to get a conclusion to make a decision, so that in this study the expert system is used to diagnose anemia from the symptoms of anemia. The result of this research is a website that contains information about anemia, a feature to record taking blood supplement tablets and a screening feature that applies the certainty factor method, to calculate the value of expert beliefs about the symptoms of anemia and the beliefs of young women about how often the young women experience, to make a conclusion, a rule is used if the calculation of the certainty factor method $\geq 50\%$ then anemia and < 50 is not anemia.

Keywords: expert system, certainty factor, anemia, adolescent girls