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**Expert System for Screening of Borderline
Personality Disorder**

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Abstract—Individuals who have symptoms of borderline personality disorder (BPD) usually experience intense feelings of hatred, anger, depression, or anxiety. These feelings are often frightening, overwhelming, and difficult to control. In the midst of intense emotions, individuals with BPD may act impulsively to reduce emotional pain, harm themselves, or communicate emotional distress. This results in 10% of people with BPD dying by suicide. The system is made to anticipate and minimize these problems. The expert system built in this study can measure a person's level of borderline personality disorder, so that it can increase knowledge in the general public to help someone who is detected as having mental health problems or BPD. The certainty factor method is used to assess the degree of confidence in the value used, and forward chaining as forward tracking which starts from gathering fact and events that support the assumption hypothesis, until a conclusion is obtained. Based on tests using 50 test data using accuracy testing, it shows that the CF method has a presentation of 100% accuracy in the test results that have been carried out in this study.

Keywords: *Borderline Personality Disorder, Certainty Factor, Forward Chaining.*

I. INTRODUCTION

Mental health is an important aspect of a person in achieving overall health for himself. Mental health is very important to pay attention to, and is no less important than physical health. A person cannot be said to be healthy without mental health insurance, as the definition of health conveyed by the World Health Organization (WHO) states that health is a state of complete physical, mental and social well-being of a person, and not merely the absence of disease or infirmity. Mental health is a fundamental or initial component of health definitions and indicators. People who have good mental health enable them to realize their potential, can cope with the normal pressures of life, work productively, and contribute to their community. Therefore, we cannot ignore the existence of mental health problems, because the number of cases currently is quite alarming. There are approximately 450 million people suffering from mental and behavioral disorders worldwide. It is estimated that one in four people with a mental disorder will suffer from it in their lifetime. According to WHO Asia Pacific Region (WHO SEARO) the highest number of cases of depressive disorders is in India (56,675,969 cases or 4.5% of the total population), the lowest is in the Maldives (12,739 cases or 3.7% of the population). This problem cannot be generalized, then there is a false stigma about mental disorders which hinders access to health services resulting in mishandling. As reported by Human Rights Watch Indonesia, which highlighted the poor handling of citizens with mental disorders in Indonesia. It is known that more than 57,000 people with psychosocial disabilities (mental health conditions), at least once in their lives have been shackled [1-5].

Individuals with BPD experience intense feelings of fear, hatred, anger, depression, or anxiety. These feelings are often explosive, frightening, overwhelming, and difficult to control. In the midst of intense emotions, individuals with BPD may act impulsively, lash out and hurt themselves to reduce emotional pain, self-soothe, or communicate emotional stress. There are more than 10% of people with BPD die by suicide; 80% of people with BPD who are hospitalized have had surgery because they injured themselves, hit themselves, burned their skin, bit themselves, banged their heads, scratched, carved their skin, and inserted needles. The emotional pain they experience is so unbearable that self-harm is a way of coping with the psychic pain they are feeling.