

SECURING PATIENT MEDICAL RECORD DATA USING ADVANCED ENCRYPTION STANDARD (AES) CRYPTOGRAPHY ALGORITHM

***(Case Study: WH Aesthetic Clinic and Medika Natuna Pharmacy,
Riau Islands)***

NITA AINUN HIDAYAH

*Informatics Study Program, Faculty of Science & Technology
University of Technology Yogyakarta
Jl. Ringroad Utara Jombor Sleman Yogyakarta
E-mail : nitaainun02@gmail.com*

ABSTRACT

Advanced Encryption Standard (AES) is a cryptographic algorithm used to secure a system. The AES method has an important role in securing data. One of the important data to secure is medical record data. Medical record data stores privacy that cannot be given to just anyone, because the data stores personal information. The AES algorithm can help secure medical record data in a clinic, by carrying out the encryption and decryption process. Therefore, researchers want to conduct research on Securing Patient Medical Record Data Using the Advanced Encryption Standard (AES) Cryptographic Algorithm Case Study: WH Aesthetic Clinic and Medika Pharmacy Natuna Riau Islands. The case study was chosen because the patient medical record system at the clinic still does not have system security, so there is a risk of data leakage. Data was obtained via telephone, WhatsApp, direct interviews, and conducting surveys at WH Aesthetic Clinic and Medika Pharmacy. The results of this study are in the form of patient medical record data security at WH Aesthetic Clinic & Medika Pharmacy. So that the admin and clinic owner can secure the medical record system by using the AES cryptographic algorithm method.

Keywords: Medical Record Data, Cryptography, Advanced Encryption Standard (AES).