

**HUBUNGAN PENYIMPANAN DAN PENCATATAN SUHU  
TERHADAP KUALITAS RANTAI DINGIN VAKSIN  
DPT (DIFTERI PERTUSIS TETANUS)  
PADA BEBERAPA PUSKESMAS  
DI KOTA BATAM**

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**ABSTRAK**

Vaksin merupakan salah satu komponen penting dalam upaya pencegahan penyakit menular, sehingga kualitasnya harus terjaga melalui sistem rantai dingin (*cold chain system*). Kualitas vaksin DPT sangat bergantung pada pengelolaan rantai dingin yang mencakup penyimpanan dan pencatatan suhu. Penelitian ini bertujuan menganalisis hubungan penyimpanan dan pencatatan suhu dengan kualitas rantai dingin vaksin DPT di beberapa Puskesmas Kota Batam. Desain penelitian menggunakan cross sectional dengan 33 responden dari 11 puskesmas, instrumen berupa kuesioner dan lembar observasi. Analisis dilakukan dengan uji korelasi Spearman Rank. Hasil penelitian menunjukkan adanya hubungan signifikan yang kuat antara penyimpanan dengan kualitas rantai dingin ( $r = 0,646$ ;  $p = 0,001$ ) serta ada hubungan yang sedang antara pencatatan suhu dengan kualitas rantai dingin ( $r = 0,472$ ;  $p = 0,027$ ). Disimpulkan bahwa penyimpanan dan pencatatan suhu berperan penting dalam menjaga kualitas rantai dingin vaksin DPT, sehingga perlu dilaksanakan secara konsisten sesuai standar.

**Kata kunci:** penyimpanan vaksin, pencatatan suhu, kualitas rantai dingin, DPT, puskesmas.

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***ABSTRACT***

*Vaccines are a crucial component in preventing infectious diseases, and their quality must be maintained through a cold chain system. The quality of the DPT vaccine is highly dependent on cold chain management, including storage and temperature recording. This study aims to analyze the relationship between storage and temperature recording and cold chain quality for DPT vaccines in several community health centers (Puskesmas) in Batam City. The study used a cross-sectional design with 33 respondents from 11 community health centers, using questionnaires and observation sheets as instruments. Analysis was conducted using the Spearman Rank correlation test. The results showed a strong, significant relationship between storage and cold chain quality ( $r = 0.646$ ;  $p = 0.001$ ) and a moderate relationship between temperature recording and cold chain quality ( $r = 0.472$ ;  $p = 0.027$ ). It was concluded that storage and temperature recording play a crucial role in maintaining the cold chain quality of the DPT vaccine and therefore require consistent implementation according to standards.*

**Keywords:** *vaccine storage, temperature recording, cold chain quality, DPT, community health center.*