

Pemantauan Suhu Chiller Penyimpanan Produk Rantai Dingin (Cold Chain Product) di PT. Anugrah Argon Medica = Cold Chain Product Storage Chiller Temperature Monitoring at PT. Anugrah Argon Medica

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Abstrak

Distribusi produk obat dan alat kesehatan diatur dalam pedoman Cara Distribusi Obat yang Baik (CDOB) dan Cara Distribusi Alat Kesehatan yang Baik (CDAKB) untuk memastikan mutu produk selama distribusi. Salah satu faktor yang mempengaruhi mutu produk yaitu suhu, khususnya untuk produk rantai dingin (cold chain product). Penelitian dilakukan untuk memantauan suhu chiller penyimpanan produk rantai dingin di PT Anugrah Argon Medica dengan tujuan memastikan kesesuaian suhu penyimpanan dan menentukan tindakan bila terdapat penyimpangan. Pemantauan dilakukan selama 7 hari menggunakan rekaman suhu pada data logger chiller penyimpanan produk obat rantai dingin (chiller 3) dan chiller penyimpanan produk alat kesehatan rantai dingin (chiller 7). Data yang diperoleh diolah menggunakan aplikasi T-Tec dan Microsoft Excel kemudian dianalisis sehingga diperoleh nilai MKT. Hasil pemantauan chiller 3 terdapat penyimpangan suhu di sensor maksimum hari ke-1 (8,5) dan hari ke-7 (8,32) karena pintu chiller terbuka terlalu lama saat operasional. Tindakan pencegahan dan tindakan perbaikan untuk chiller 3 yaitu memberikan sosialisasi kepada petugas gudang terkait durasi membuka chiller. Hasil nilai MKT chiller 3 sensor minimum sebesar 4,4960 dan sensor maksimum sebesar 6,7717. Hasil pemantauan suhu chiller 7 telah sesuai dengan persyaratan (28). Hasil nilai MKT pada chiller 7 sensor minimum sebesar 4,9755 dan sensor maksimum sebesar 5,0928.

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The distribution of pharmaceutical products and medical devices is regulated by the Good Distribution Practice Guidelines for Pharmaceuticals (CDOB) and Good Distribution Practice Guidelines for Medical Devices (CDAKB) to ensure product quality during distribution. One of the factors influencing product quality is temperature, especially for cold chain products. Research was conducted to monitor the temperature of the cold chain product storage chiller at PT Anugrah Argon Medica to ensure storage temperature compliance and determine actions for deviations. Monitoring was conducted over 7 days using temperature recordings from the data logger of chiller 3 for pharmaceutical cold chain products and chiller 7 for medical device cold chain products. The data obtained were processed using T-Tec and Microsoft Excel applications, then analyzed to obtain the Mean Kinetic Temperature (MKT) values. The monitoring of chiller 3 revealed temperature deviations at the maximum sensor on day 1 (8.5°C) and day 7 (8.32°C) due to prolonged opening of the chiller door during operation. Preventive and corrective actions for chiller 3 included providing awareness training to warehouse personnel regarding the duration of chiller door openings. The MKT results for chiller 3 were a minimum sensor value of 4.4960°C and a maximum sensor value of 6.7717°C. The temperature monitoring of chiller 7 complied with requirements (2°C-8°C). The MKT results for chiller 7 were a minimum sensor value of 4.9755°C and a maximum sensor value of 5.0928°C.