

ABSTRAK

Penelitian ini bertujuan untuk mengetahui tingkat kenaikan angka penderita COVID-19 di Kota Padang, membuat model dan melakukan peramalan tingkat kenaikan angka penderita COVID-19 di Kota Padang. Data yang digunakan dalam penelitian ini menggunakan data sekunder, yaitu data kasus baru positif COVID-19 di Kota Padang dari 27 Maret sampai 31 Desember 2020 yang diperoleh dari situs <http://dinkes.padang.go.id>. Hasil penelitian menunjukkan bahwa model untuk tingkat kenaikan angka penderita COVID-19 di Kota Padang adalah ARIMA (1,1,0) dengan persamaan $(1 - B)^1 X_t = 0,335005X_{t-1} + \epsilon_t$. Peramalan tingkat kenaikan angka penderita COVID-19 di Kota Padang bulan Januari dan Februari 2021 didapatkan pada minggu ke-41 sebanyak 232 orang; minggu ke-42 sebanyak 324 orang; minggu ke-43 sebanyak 222 orang; minggu ke-44 sebanyak 239 orang; minggu ke-45 sebanyak 167 orang; minggu ke-46 sebanyak 176 orang; minggu ke-47 sebanyak 282 orang; minggu ke-48 sebanyak 245 orang.

Kata Kunci : Tingkat Kenaikan, Penderita COVID-19, ARIMA, Kota Padang, dan Peramalan



ABSTRACT

This study aims to rising levels of patients COVID-19 in the Padang City, create models and forecast the rising levels of patients COVID-19 in Padang City. The data in this study uses secondary data, namely data on new positive cases of COVID-19 in Padang City from March 27 to December 31, 2020 which was obtained from the <http://dinkes.padang.go.id> site. The results show that the model for the rising levels of patients COVID-19 in Padang City is ARIMA (1,1,0) with the equation is $(1 - B)^1 X_t = 0.335005X_{t-1} + \epsilon_t$. Forecasting the rising levels of patients COVID-19 in the Padang City in January and February 2021 was obtained in the week 41st is 232 people; week 42nd as many as 324 people; week 43th as many as 222 people; week 44th as many as 239 people; week 45th as many as 167 people; week 46th as many as 176 people; week 47th as many as 282 people; the week 48th as many as 245 people.

Keywords : *Rising Levels, patients COVID-19, ARIMA, Padang City, and Forecasting*

