ABSTRAK

PERBANDINGAN PEMERIKSAAN HEMATOLOGI ANTARA SUSPEK COVID-19 DENGAN KONFIRMASI COVID-19 DI RS IMMANUEL BANDUNG PERIODE MARET-SEPTEMBER 2020

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Coronavirus Disease 2019 (COVID-19) adalah penyakit pernapasan menular yang disebabkan oleh *Severe Acute Respiratory Syndrome Coronavirus 2* (SARS-COV-2). Pemeriksaan hematologi memiliki peran penting dalam diagnosis dini pasien tersangka COVID-19. Tujuan penelitian ini dilakukan untuk mengetahui perbandingan hasil pemeriksaan hematologi antara kelompok pasien suspek COVID-19 dengan pasien konfirmasi COVID-19. Metode penelitian bersifat *cross sectional*. Subjek penelitian adalah 68 rekam medis pasien konfirmasi COVID-19 dan 75 rekam medis pasien suspek COVID-19 yang memenuhi kriteria penelitian. Data dianalisis menggunakan uji statistik t tidak berpasangan, $\alpha=0,05$. Hasil penelitian didapatkan perbedaan pada kadar hemoglobin (p=0,51), hematokrit (p=0,048), leukosit (p=0,591), eritrosit (p=0,055), dan trombosit (p=0,670), hitung jenis eosinofil (p=0,09), basofil (p=0,088), neutrofil(p=0,259), limfosit (p=0,300), dan monosit (p=0,053), *Neutrophil to Lymphocyte Ratio* (NLR) (p=0,022) dan *Absolute Lymphocyte Count* (ALC) (p=0,121) antara pasien suspek dengan konfirmasi COVID-19. Simpulan penelitian adalah terdapat perbedaan rerata yang signifikan pada kadar hematokrit, hitung jenis eosinofil, dan NLR, serta tidak terdapat perbedaan rerata yang signifikan pada kadar hemoglobin, leukosit, eritrosit, dan trombosit, hitung jenis basofil, neutrofil, limfosit, dan monosit, dan ALC.

Kata kunci :

COVID-19; SARS-CoV-2; hemoglobin; hematokrit; leukosit; eritrosit; trombosit; eosinofil; basofil; neutrofil; limfosit; monosit; NLR; ALC

ABSTRACT

THE COMPARISON OF HEMATOLOGY EXAMINATION BETWEEN SUSPECTED COVID-19 AND CONFIRMED COVID-19 AT IMMANUEL HOSPITAL BANDUNG PERIOD MARCH 2020 - SEPTEMBER 2020

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Coronavirus Disease 2019 (COVID-19) is an infectious respiratory disease caused by Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-COV-2). Hematological examination has an important role in the early diagnosis of suspected COVID-19 patients. The purpose of this study was to compare the results of hematological examinations between groups of patients with suspected COVID-19 and confirmed COVID-19 patients. The research method is cross sectional. The subjects were 68 medical records of confirmed COVID-19 patients and 75 medical records of suspected COVID-19 patients who met the research criteria. Data analysed with the unpaired t test statistic, $\alpha= 0.05$. The results showed that there were differences in the levels of hemoglobin (p=0.51), hematocrit (p=0.048), leukocytes (p=0.591), erythrocytes (p=0.055), and platelets (p=0.670), the count of eosinophils (p= 0.09), basophils (p=0.088), neutrophils (p=0,259), lymphocytes (p=0,300), and monocytes (p=0,053), Neutrophil to Lymphocyte Ratio (NLR) (p=0,022) and Absolute Lymphocyte Count (ALC) (p=0.121) among suspected patients with confirmed COVID-19. The conclusions of the study were that there were significant mean differences in hematocrit levels, eosinophil count, and NLR, and there were no significant mean differences in hemoglobin, leukocyte, erythrocyte, and platelet counts, basophil, neutrophil, lymphocyte, and monocyte counts, and ALC.

Keywords :
COVID-19; SARS-CoV-2; hemoglobin; hematocrit; leukocytes; erythrocytes; thrombocytes; eosinophils; basophils; neutrophils; lymphocytes; monocytes; NLR; ALC

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