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Chest Infections

TYPE: Abstract **TOPIC:** Chest Infections

PATIENTS WITH MODERATE COVID-19: COMPARISON OF PROCALCITONIN SERUM LEVEL IN TWO GROUPS WITH DIFFERENT CHEST IMAGING FINDINGS

M. SHAFIEPOUR¹ S. ABDOLLAHI¹ A. ALINAGHI LANGARI² S. DABIRI³ M. YOUSEFI¹ AND S. NAKHAEI^{*1} ¹KERMAN UNIVERSITY OF MEDICAL SCIENCES, INTERNAL MEDICINE, KERMAN, IRAN ²KERMAN UNIVERSITY OF MEDICAL SCIENCES, STUDENT RESEARCH COMMITTEE, SCHOOL OF MEDICINE, KERMAN, IRAN ³KERMAN UNIVERSITY OF MEDICAL SCIENCES, DEPARTMENT OF PATHOLOGY, PATHOLOGY AND STEM CELLS RESEARCH CENTER, KERMAN, IRAN

PURPOSE: To compare serum level of Procalcitonin in two groups of moderate COVID-19 patients based on chest CT scan findings: (the first group: ground-glass alone, the second groupo: combination of ground-glass and consolidation).

METHODS: A total of 82 patients with moderate severity of COVID-19 (not critically ill and peripheral oxygen saturation between than 85% and 90% at room air at the time of admission), whose disease had been confirmed by the PCR test, were selected. Based on the chest CT scan finding, the patients were divided into two matched groups with moderate COVID-19 severity (n=41). In the first group, ground-glass opacities alone and the second group, a combination of consolidation and ground-glass opacities were considered. At the time of admission of the patients, 5 cc blood was drawn from a peripheral vein and poured into a tube to be sent to the biochemistry laboratory, and the procalcitonin level was quantitatively measured using human procalcitonin ELISA kits.

RESULTS: The mean serum level of procalcitonin in the first group was measured 0.66 ± 0.14 (ng/ml) and in the second group was measured 0.4 ± 0.12 (ng/ml) (p-value = 0.25).

CONCLUSIONS: There is no significant difference of serum procalctionin level in moderate severity COVID-19 patients with combination of consolidation and ground glass opacities on chest CT scan compared to moderate COVID-19 patients with ground glass only opacities on chest CT scan.

CLINICAL IMPLICATIONS: Consolidation opacities added to ground glass opacities have no relationship to serum procalcitonin level in moderate COVID-19 patients at the time of admission.

DISCLOSURE: Nothing to declare.

KEYWORD: Procalcitonin, COVID19

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