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Coagulation disorder in Covid-19 patients in a North-African Setting

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Introduction: Up until now, the physiopathology of Covid-19 is still not well known. Many studies have showed and alteration of the coagulation system during SARS-COV-2 infection. The aim of this study is to assess the variations in coagulation parameters in Covid-19 patients.

Method: We studied the coagulation biological parameters of 102 Covid-19 patients (group1, G1) and compared them to those of a control group (G 2).

Results: the mean age was 46 year-old for group 1 and 40 in group 2, with a men predominance in both groups (55.4 % in G1 and 52.8 % in G2). The D-dimer rate was $1,35 \pm 2.1$ in G1 vs 0.18 ± 0.05 in G 2, ($p < 0.001$) and the fibrinogen level was $4.04 (\pm 1.85)$ in G 1 vs 2.13 in G 2 (± 0.308) ($p < 0.001$), G1 had significantly higher levels than G2. Prothrombin level was lower in G 1: $84.7 (\pm 16.9)$ vs $93.1 (\pm 6.60)$, ($p < 0.01$). There wasn't a significant difference between the two groups regarding: the thrombocytes levels, the International Normalised Ratio (INR) and the activated cephalin time ($p = 0.05$). D-dimer and fibrinogen were higher in severe Covid 19 cases compared to moderate Covid 19 ones ($p < 0.001$).

Conclusion: D-Dimer and Fibrinogen are biological markers for severe Covid 19 which is associated to an important disorder of the coagulation system.

Biography

Salma Ait Batahar graduated from the school of medicine of Marrakech Morocco in 2008 at the age of 26 and completed her pulmonology residency at the university hospital of Marrakech between 2009 and 2013. She then became an assistant professor at the pulmonology department in 2014. She is currently an associate professor at the pulmonology department of the university hospital of Marrakech.

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