

Evaluation of laboratory, clinical and mortality findings in pregnant women with Covid hospitalized in Imam Khomeini Hospital during the outbreak of Delta variant (summer and autumn 2021)

Abstract

Background: Due to the high risk of Covid -19 disease in pregnant women and the novelty of this epidemic in the world and the lack of similar studies in Iran and the region, a study on mortality and laboratory and clinical findings of the disease in pregnant women in Ardabil seems necessary.

Aim: Determination the laboratory, clinical and mortality findings in pregnant women with Covid hospitalized in Imam Khomeini Hospital during the outbreak of Delta variant (summer and autumn 2021) in Ardabil province.

Materials and methods: All pregnant women with Covid-19 admitted to Imam Khomeini Hospital at the time of delta outbreak were included in the study. Finally, 187 infected pregnant mothers were included in the stud. In the case of mothers mortality case was studied in more detail.

Results: Of the 187 infected pregnant women, eight persons died. The most common clinical finding was shortness of breath (Dyspnea) and cough, the most common laboratory finding was lymphopenia. Comparing the cured and dead mothers according to laboratory findings using Fisher's exact test showed that the difference between ALT ($p<0.05$), lactate dehydrogenase ($p<0.001$), AST ($p<0.001$), BS ($P<0.05$), creatinine ($p<0.05$) and total bilirubin ($p<0.05$) were statistically significant.

Conclusion: Delta variant of Covid-19 disease resulted in 187 hospitalizations and 8 deaths of pregnant mothers in Ardabil province. Shortness of breath (Dyspnea) and cough were the most common clinical findings and lymphopenia was the most common laboratory finding. Comorbidity was observed in 41 pregnant women. Improve access to health care and organized coordination to reduce maternal mortality associated with Covid-19 and the side effects of the epidemic are recommended.

Keywords: Pregnant mother, Clinical and laboratory signs, COVID19, Delta.