

## **Evaluation of the effectiveness and safety of Nd-YAG laser in the treatment of facial telangiectasia**

### **Abstract**

**Background:** Early epidemiological studies have shown that hypertension is one of the most common co-morbidities in patients with covid-19, which has also been suggested as one of the risk factors for increased morbidity and mortality related to covid-19, but there are still insufficient studies in this regard. The field has not been completed.

**Aim:** To evaluate the clinical and laboratory finding of hypertension patients with COVID-19 in Ardabil Imam Khomeini Hospital from April2020 to April2021.

**Materials and methods:** The present cross-sectional study was conducted on 779 hypertensive patients with covid-19 hospitalized in Imam Khomeini Hospital (RA) in Ardabil. For all subjects, a checklist including demographic characteristics, clinical findings, and laboratory findings was completed. Information was retrospectively extracted from patients' records.

**Results:** The mean and standard deviation of the age of the patients was  $68.6\pm 12.4$  years and 354 patients (45.4%) were male and 425 patients (54.6%) were female. 203 patients (26.1%) died. Increased levels of laboratory parameters indicating inflammation and liver and kidney dysfunction mainly in patients over 60 years old, male patients, patients with more than 5 days of hospitalization, patients hospitalized in the intensive care unit, patients with underlying disease, and dead patients were observed. On the other hand, the frequency of death was significantly higher among patients over 60 years old, male patients, patients admitted to the intensive care unit, patients with underlying disease, and patients with a history of kidney disease.

**Conclusion:** People with high blood pressure should take extra precautions to protect themselves from Covid-19. They should also ensure that their blood pressure is well controlled and continue to take their prescribed medications as directed by their doctor. Monitoring the level of various laboratory parameters such as those mentioned can play an important role in diagnosis, guiding treatment decisions, follow-up, and evaluation of treatment response in all patients with covid-19, especially those suffering from hypertension.

**Keywords:** Covid-19, high blood pressure, clinical findings, laboratory findings.