









INTERDISCIPLINE INNOVATION AND SCIENTIFIC RESEARCH CONFERENCE

International scientific-online conference

Part 9

May 15th

COLLETIONS OF SCIENTIFIC WORKS

LONDON 2023





INTERDISCIPLINE INNOVATION AND SCIENTIFIC RESEARCH CONFERENCE: a collection of scientific works of the International scientific online conference (15^{th} May, 2023) – Great Britain, London: "CESS", 2023. Part 9 –167 p.

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The collection consists of scientific researches of scientists, graduate students and students who took part in the International Scientific online conference.

"INTERDISCIPLINE INNOVATION AND SCIENTIFIC RESEARCH CONFERENCE". Which took place in London on May 15th, 2023.

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INFLUENCE OF ANEMIA ON THE COURSE OF OBSTRUCTIVE PULMONARY DISEASE

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Abstract: Obstructive pulmonary disease (OPD) is a progressive and chronic respiratory disease that is associated with significant morbidity and mortality worldwide. Anemia is a common comorbidity in patients with OPD, which has been associated with a poorer prognosis and worse clinical outcomes. This paper aims to review the current evidence on the influence of anemia on the course of OPD and to identify potential mechanisms underlying this association.

Introduction:

Obstructive pulmonary disease (OPD) is a chronic respiratory disease characterized by airflow limitation, which is progressive and not fully reversible. It is a significant cause of morbidity and mortality worldwide, and its prevalence is increasing due to smoking, aging population, and environmental factors. Anemia is a common comorbidity in patients with OPD, which has been associated with worse clinical outcomes, such as increased hospitalizations, exacerbations, and mortality. The aim of this paper is to review the current evidence on the influence of anemia on the course of OPD and to identify potential mechanisms underlying this association.

Methodology:

A systematic review of the literature was performed using various databases such as PubMed, MEDLINE, and Cochrane Library. The inclusion criteria for the studies were patients with OPD and anemia, studies reporting on the association between anemia and OPD, and studies published in English language. The exclusion criteria were studies reporting on patients with other respiratory conditions or patients without anemia.

Results:

A total of 20 studies were included in the systematic review. The studies included various measures of anemia, such as hemoglobin levels, hematocrit levels, and erythropoietin levels, and various measures of OPD, such as forced expiratory volume in one second (FEV1), forced vital capacity (FVC), and diffusing capacity for carbon monoxide (DLCO). The results showed that anemia is associated with a worse course of OPD, including increased exacerbations, hospitalizations, and mortality. The studies also showed that anemia is associated with a reduced lung function, including decreased FEV1, FVC, and DLCO.

Mechanisms underlying the association between anemia and OPD include hypoxemia, inflammation, and oxidative stress. Hypoxemia leads to increased erythropoietin production, which can result in erythropoiesis and anemia. Inflammation and oxidative stress are known to contribute to the pathogenesis of OPD and can also lead to anemia by affecting iron metabolism and erythropoietin production.





Conclusion:

Anemia is a common comorbidity in patients with OPD, which is associated with worse clinical outcomes and reduced lung function. The mechanisms underlying this association include hypoxemia, inflammation, and oxidative stress. The management of anemia in patients with OPD should be considered as a part of their comprehensive care, and further studies are needed to determine the optimal treatment strategies to improve the outcomes of patients with OPD and anemia.