

عنوان مقاله:

The role of oxidative stress in pediatric urinary tract infections: a systematic review

محل انتشار:

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خلاصه مقاله:

Introduction: Urinary tract infection (UTI) that can affect any part of the urinary tract and may subsequently lead to kidney infection is linked with variety of causative factors such as oxidative stress. In this study, we aimed to systematically review the literatures to evaluate the effects of oxidative stress on UTI. **Method:** PubMed and Google scholar were searched systematically using the key terms, oxidative stress and urinary tract infection in the title, keywords, and abstract on February 2015 to find articles in which the oxidative stresses had been evaluated in children with urinary tract infection (UTI). Papers were excluded if they were unrelated to the purpose of this study, or in language other than English. Full texts of the relevant documents were fully reviewed for data extraction. **Result:** Of overall 50 articles from PubMed, and 6 records found in Google scholar, only 8 articles met the inclusion criteria for further assessment. Additionally, three papers were omitted due to full texts unavailability or language irrelevancy, and five articles, which fully met the inclusion criteria, were used for data extraction. The results showed that the level of antioxidant decreases significantly in patients with UTI, while the markers of oxidative stress increases. **Conclusions:** The results of the studies showed that the level of antioxidants decreases in patients with UTI, while lipid peroxidase and the level of oxidative stress biomarkers such as malondialdehyde and reactive oxygen species increase. These findings are suggestive of an association between oxidative stress and UTI. The role of oxidative stress in pediatric urinary tract infections: a systematic review

کلمات کلیدی:

Antioxidants, Oxidative stress, Urinary tract infection

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