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Paraoxonase 1 and chronic obstructive pulmonary disease: A meta-analysis (protocol)

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Introduction: Oxidative stress is a driving factor in the pathophysiology of chronic obstructive pulmonary disease (COPD). While paraoxonase 1 (PON1) is an antioxidant enzyme, a potential biomarker of this disease, data regarding the relationship of PON-1 with COPD appear to show some controversy. In this regard, to shed light on this issue, we will aim to perform a meta-analysis of data on PON1 activity in COPD.
Methods: Electronic databases (MEDLINE, Embase and CENTRAL) will be searched for available studies on PON1 activity in patients with stable COPD published before October 2021. A meta-analysis will be performed using random-effects models.

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