Name of Journal: *World Journal of Diabetes*

Manuscript NO: 58821

Manuscript Type: EVIDENCE REVIEW

Progress on haptoglobin and metabolic diseases

Haptoglobin and metabolic diseases

Abstract

Haptoglobin (HP) is an acidic glycoprotein, existing in the serum and other body fluids of human being and a variety of mammals. Haptoglobin is produced in the liver, white adipose tissue, and kidney. The genetic polymorphisms and different phenotypes of HP have different biological functions. HP has antibacterial, antioxidant, and angiogenic effects, and is associated with multiple diseases including simple obesity, vascular complications of diabetes mellitus, nonalcoholic fatty liver disease (NAFLD), hypertension, blood diseases, autoimmune diseases and malignant tumors. HP also

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Beyond the conventional view of **haptoglobin** as a marker of **hemolysis**, several findings point towards an immunomodulatory effect of **haptoglobin** in B-cell mediated **progression** of atherosclerosis. The balance between proatherogenic and protective immunological properties of the different Hp phenotypes determines if **lesions progress** or regress.

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