EDITÖRE MEKTUP/LETTER TO THE EDITOR

Heyde's syndrome: the association between severe aortic stenosis and anemia.

Heyde sendromu: ağır aort stenozu ile anemi arasındaki ilişki

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Dear Editor,

Heyde’s Syndrome was first described in 1958 by Edward Heyde who observed the association between aortic stenosis (AS) and gastrointestinal bleeding (GIB) due to angiodysplasia. The pathogenesis of Heyde's syndrome includes an acquired type 2A von Willebrand factor (vWF) deficiency secondary to AS and other degenerative disease in elderly patients with concomitant GIB. vWF is a multimeric glycoprotein that circulates in the blood and binds to factor VIII. vWF normally broken down by a metalloproteinase ADAMTS13. According to Warkentin et al. over a stenosed aortic valve vWF multimers are subjected to high shear stresses that change their structure and render them more susceptible to proteolysis by ADAMTS13 resulting in depletion of vWF. This results in an acquired bleeding disorder. The patient referred for further evaluation, but he refused any intervention.

In the reported case the suspicion of Heyde’s syndrome was raised after confirming severe AS by echocardiography (critical calcific AS with an aortic valve area of 0.9 cm² and a severely hypertrophied left ventricle). Aortic valve replacement (open surgery aortic replacement or transcatheter aortic valve implantation) appears to offer the best option of long-term resolution of the bleeding, and should be considered. Patient referred for further evaluation, but he refused any intervention. Unfortunately the patient's re-admissions continued and anemia treated with red blood cells transfusions.

Clinicians should be aware of the association between severe AS and angiodysplasias especially in elderly patients with anemia in order to make an early diagnosis of Heyde’s syndrome and to schedule the appropriate management. The presence of angiodysplasia on endoscopy or a failure of the investigations to find a clear site of gastrointestinal bleeding, should raise the possibility of Heyde’s syndrome, especially in patients with known AS.

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Geliş tarihi/Received: 25.06.2016 Kabul tarihi/Accepted: 15.07.2016
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