## **Description of Supplementary Files**

File Name: Supplementary Data 1 Description: Replication of variants with suggestive association with aortic stenosis in Iceland.

File Name: Supplementary Data 2 Description: Association of aortic stenosis variants with other cardiovascular phenotypes.

File Name: Supplementary Data 3 Description: Association of aortic stenosis variants with traditional cardiovascular risk factors.

File Name: Supplementary Data 4 Description: The effect of established coronary artery disease (CAD) variants on CAD and aortic valve stenosis (AS).

File Name: Supplementary Data 5 Description: The effect of established coronary artery disease (CAD) variants on aortic valve stenosis (AS) in Iceland and UK-Biobank.

File Name: Supplementary Data 6 Description: The association of CAD genetic risk score with aortic valve stenosis.

File Name: Supplementary Data 7 Description: Association of reported aortic root size variants on aortic valve stenosis.