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On the Cover

This periodic acid-Schiff stained section shows an arteriole with “onion skin” lesion, characterized by extensive remodeling and concentric thickening of the vessel wall, with duplication of the cells and matrix layers of the media, intimal thickening, occlusion and complete obliteration of the vessel lumen. These severe vascular changes result from repetitive injury and repair of the vessel walls and have been classically described in malignant hypertension; however, the changes can be observed in a number of other conditions associated with a primary form of vascular injury, including scleroderma, undifferentiated connective tissue disease, antiphospholipid antibody syndrome, healed hemolytic uremic syndrome, and the use of drugs with vascular toxicity (such as cocaine, amphetamines, VEGF inhibitors). (Image and text provided by Dr. Vanesa Bijol, Brigham and Women’s Hospital)