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The microcirculation involvement in the cardiovascular diseases: Focus on the capillaries

The Nailfold Capillaroscopy (NFC) is non-invasive simple diagnostic tool in a detection of microcirculation abnormalities in certain disorders like rheumatic diseases, Raynaud's phenomena (RP), cardiovascular diseases including coronary arterial diseases, arterial hypertension and pulmonary arterial hypertension, diabetes mellitus etc. The correlation between the pulmonary arterial hypertension (PAH) and capillary changes have well been documented. Antiphospholipid syndrome (APS) with its microbleeding spots can be visualized in the nailbed. The morphology of the capillaries in the nailfold area are well visualized by the video nailfold capillaroscopy (NFC). Arterial hypertension is characterized by reduced capillary density and dilatation of either afferent limb, efferent limb, apex or all of it together. The coronary slow phenomenon (CSP) is also associated with nailfold capillary changes. The NFC may detect dilatation of capillaries, tortuosity and microhemorrhage that reflect coronary microcirculation pathology.



Figure.1: Arterial Hypertension: Reduced density and Capillary dilatation of apex and efferent limb.

Biography

Sekib Sokolovic is Professor of Internal Medicine at Medical Faculty and University Clinical Center Sarajevo. He is European Hypertension Specialist and his expertise is in evaluation in improving the health and wellbeing for cardiovascular patients. His interest is open and contextual evaluation model based on systemic microcirculation as well as on macrocirculation including arterial hypertension, pulmonary arterial hypertension, arterial stiffness and vitamin D. He has great experience in clinical research and teaching both in hospital and education institutions and invited speaker in the major scientific medical events worldwide.

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