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Chronic superior vena cava syndrome: Cause of continuous passage of blood from the territory of venous system to the cerebrospinal venous circulation and possible cohorts for several neurodegenerative diseases**S Spagnolo**

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In superior vena cava syndrome (SVCS), the venous blood from the upper torso reaches the right atrium through four well-known collateral pathways. Unexpectedly, numerous imaging studies showed that in the left brachiocephalic venous stenosis the blood reverses its flow direction and heads towards the jugular and cerebral veins. Venous flow direction is always unidirectional and centripetal, while the bidirectional flow is a unique feature of compensatory venous circle. The jugular vein reflux, well described in the literature, can only be interpreted as a typical centrifugal flow of a collateral circulation. Our hypothesis is that the Cerebrospinal Venous System itself constitutes a compensation circle, which connects the superior vena cava to the inferior one. This hypothesis is corroborated by the current knowledge on the Cerebrospinal Venous System that is considered a unique, valve less, bidirectional flow circuit that freely communicates with superior and inferior vena cava. From 2010 to today we have operated for plastic enlargement with patches in the saphenous vein, 120 patients with congenital stenosis of the superior vena cava system. Here we report the angiography of first two patients with vena cava stenosis; in one we describe the inversion of flow from the location of the obstruction towards the cerebrospinal circle and in the other we describe the passage of venous blood from peripheral tissues to the cerebrospinal circle. The continuous passage of venous blood from the superior cava system into the cerebrospinal circulation opens up new perspectives in the explanation of etiopathogenesis of many neurodegenerative diseases (infant neurological diseases, multiple sclerosis, Parkinson's disease and Alzheimer's). In vena cava stenosis then, the cerebrospinal circle is subjected to an increase in pressure, in volume overload and in the possibility, as demonstrated in literature, that infections, emboli or tumors can be transmitted directly from the periphery to the brain through the venous route.

Biography

Salvatore Spagnolo currently working in Cardiosurgery (ICLAS - Istituto Clinico Ligure di Alta Specialty) Gvm Care & Research, Italy. His wide range of publications in various national and international journals

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