





Atrial Cardiopathy and Ischemic Stroke: A Mechanism Unveiled by Ultrasound

Anna Palmieri¹, Caterina Kulyk¹, Francesca Rebecca Vodret¹, Alessio Pieroni¹, Federica Viaro¹, Manfred Kaps², Claudio Baracchini¹. ¹Stroke Unit and Neurosonology Lab, University Hospital of Padua, Padova, Italy. ²Neurology Clinic, University Hospital of Giessen, Giessen, Germany.

Background

Patients with cryptogenic stroke (CS) still receive an untargeted secondary prevention treatment. Atrial fibrillation (AF), which is considered one of the main disorders behind CS, is associated with left atrium derangements – collectively called **atrial cardiopathy** – which **could account by themselves for thrombogenesis and embolism in CS**.

This study aimed to investigate whether, in CS patients, atrial cardiopathy is related to AF detection, recurrent strokes, or to the presence of micro-embolic signals (MES) at trans-cranial Doppler (TCD), which are a surrogate marker for stroke risk.

Subjects and Methods

We enrolled all consecutive CS patients, first retrospectively (Padua, 2015-2017), and later prospectively (Padua/Giessen, March-June 2018). We assessed the presence of atrial cardiopathy markers. Medical records were reviewed to detect new-onset AF and recurrent strokes.



Atrial cardiopathy markers are related to the presence of MES in the acute phase of stroke and represent a risk factor for AF and recurrent stroke.

Main references: Watson T et al., Lancet 2009. Goette A et al., Heart Rhythm 2017. Korhonen M et al., PLOS ONE 2015.