

☆ **Complex Clinical Cases**

**TACHYCARDIOMYOPATHY AND ATRIAL FIBRILLATION IN A PATIENT WITH TOTAL SITUS INVERSUS**

Poster Contributions  
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**Background:** Total situs inversus (TSI) is a rare genetic disorder related to the X chromosome, first described by Aristotle. Its association with tachycardiomyopathy can lead to heart failure (HF), which is potentially reversible after controlling or reverting the rhythm.

**Case:** A 72-year-old female with TSI presented with tachycardiomyopathy due to high ventricular response atrial fibrillation (AF) on two previous occasions, associated with worsening functional class (NYHA III) and severe systolic dysfunction recovered after electrical cardioversion. Six months later, she had a recurrence of AF, now with normal ventricular rate, but again with worsening functional class and severe systolic dysfunction. Cardiac magnetic resonance ruled out other causes of HF.

**Decision-making:** Due to the absence of another etiology for acute HF, we opted for a new electrical cardioversion of AF. The patient was discharged on amiodarone and beta-blockers. At the 18-day follow-up, a new echocardiogram showed improved ventricular function. It is known that rhythm control reduces arrhythmias, mortality, and left ventricular remodeling, but there are technical difficulties to ablation therapy due to TSI.

**Conclusion:** Tachycardiomyopathy and AF are independent etiologies of HF. There are no reports that these alterations are worse in TSI, but for the above-mentioned case, rhythm control is essential for the quality of life.

