xpert consensus recommendations on criteria for the diagnosis of cardiac sarcoidosis and Consensurecommendations for ICD implantation in patients diagnosed with cardiac sarcoidosis

ximately 5% of patients with sarcoidosis will have clinically manifest cardiac involvement(Cardiac Sarco nd another 20 - 25% have asymptomatic cardiac involvement (clinically silent disease). There is a gi standing that CS can be the first manifestation of sarcoidosis in any organ. The extent of LV dysfunction the most important predictor of prognosis. In addition, the extent of LGE is emerging as an imp ostic factor. There is some controversy regarding outcomes for patients with clinically silent CS and s are needed. Immunosuppression therapy (usually with corticosteroids) has been suggested fo nent of clinically manifest CS despite modest data. Patients with clinically manifest disease often need

ly, typically with implantable cardioverter defibrillators. There are still many unknowns in terms o

ces in diagnosing and managing CS patients and multi-centre research efforts are underway.

Expert consensus recommendations on criteria for the diagnosis of cardiac sarcoidosis

re two pathways to a diagnosis of CS:

tological diagnosis from myocardial tissue

is diagnosed in the presence of non-caseating granuloma on histological examination of myocardial tissue with no alternative cause in Iuding negative organismal stains if applicable).

nical diagnosis from invasive and non-invasive studies

probable* that there is CS if:

There is a histological diagnosis of extra-cardiac sarcoidosis

and

One or more of following is present

- Steroid ± immunosuppressant responsive cardiomyopathy or heart block
- Unexplained left ventricular ejection fraction <40%
- Unexplained sustained (spontaneous or induced) ventricular tachycardia
- Mobitz type II second degree heart block or third degree heart block
- Patchy uptake on dedicated cardiac FDG-PET (in a pattern consistent with CS)
- Late gadolinium enhancement on CMR (in a pattern consistent with CS)
- Positive gallium uptake (in a pattern consistent with CS) and

Other causes for the cardiac manifestation(s) have been reasonably excluded

c sarcoidosis; FDG-PET, Fluorodeoxyglucose-Positron Emission Tomography; CMR, cardiac magnetic resonance.

al, 'probable involvement' is considered adequate to establish a clinical diagnosis of cardiac sarcoidosis.

H, Sauer WH, Bogun F, Cooper JM, Culver DA, Duvernoy CS, Judson MA, Kron J, Mehta D, Cosedis NJ, Patel AR, Ohe T, Raatika K. HRS expert consensus statement on the diagnosis and management of arrhythmias associated with cardiac sarcoidosis. Heart: 1305 – 1323.

isensus recommendations for implantable cardioverter defibrillator implantation in patients diagnosed with cardiac sarcoid Spontaneous sustained ventricular arrhythymias, including prior cardiac arrest AND/OR The LVEF is ≤35% despite optimal medical therapy and a period of Yes ----ICD recommended immunosuppression (ifthere is active inflammation) 1. An indication for permanent pacemaker implantation AND / OR Yes ----> Unexplained syncope or near-syncope, felt to be arrhythmic in ICD can be useful actiology AND / OR Inducible ventricular arrhythmias (>30 s of monomorphic VT, or clinically relevant polymorphic VT/ventricular fibrillation) Yes ____ ICD may be considered LVEF 36-49% and/or RV ejection fraction <40%, despite optimal medical therapy and a period of immunosuppression, if appropriate, (CMR +/- an electrophysiological study may be considered to help with risk stratification of these patients)

