Diagnosis of Unexplained Syncope by Implantable Loop Recorder

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**Introduction:** Implantable loop recorder (ILR) has been reported to provide a symptom-rhythm correlation in patients with recurrent unexplained syncope. **Method:** ILR was implanted in 11 patients with recurrent unexplained syncope. **Results:** ILR revealed the mechanism of syncope in 5 patients (45.5%) and the median period after implantation was 52.8±31.9 days, which was a similar rate to those of previous reports. We found 3 patients with intermittent atrioventricular block and 1 patient with sick sinus syndrome whose electrophysiological study was almost normal. **Conclusions:** Among patients without major structural heart disease, ILR can be useful to detect the mechanism of recurrent unexplained syncope. It is particularly helpful to find intermittent bradycardia which frequently vanishes during an electrophysiology study. **Keywords:** syncope, ILR, bradycardia