Based on the criteria of the Academic Research Consortium, there were 2 definite cases of thrombosis during follow-up (1.4%), one occurring during hospitalization and the other at 7 months following the procedure in a patient who had temporarily discontinued antiplatelet therapy.

Clinical restenosis occurred in 5% of cases, a new TVR was required in 5.8%, and target lesion revascularization (TLR) was needed in 3.8%.

Primary angioplasty is the treatment of choice in patients with STEAMI. Nonetheless, the choice of stent type remains controversial. Although it has been demonstrated that drug-eluting stents (DESs) effectively reduce restenosis, they can delay remodeling, a factor that has been related to thrombosis, particularly in high-risk situations, such as STEAMI. In a study by Planas et al., 8.6% of the patient group treated with DESs required TLR, a higher rate than was documented in our study. This difference may be related to the fact that the patients in that study underwent angiographic follow-up studies at 6 and 12 months, which could increase the indication for coronary interventions.

Few studies have been performed with the Genous® stent in primary angioplasty. In the registry carried out by Lee et al., which contained 321 patients, definite thrombosis was reported in 0.9% and the total mortality rate was 5.8%. The most relevant finding of Lee's study was that there was no increase in the number of late thrombosis cases despite the use of dual antiplatelet therapy for 1 month. More recently, Low et al. reported a binary restenosis rate of 28% and lumen loss of 0.82 mm in a study including 95 patients with angiographic follow-up at 6 and 12 months. These values are higher than those obtained in our study and, again, can be related to a higher indication for coronary interventions in patients under angiographic follow-up.

In a comparison with other devices used in STEAMI cases, a study by Chong et al. showed that the Genous® stent was a comparable alternative to conventional stents and DESs; no significant differences were found in terms of TVR, non-fatal myocardial infarction, or long-term major cardiac events.

The Genous® stent seems to be a safe, effective option in STEAMI patients because of low associated rates of thrombosis and TLR. However, additional comparative studies with currently available devices are needed.

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Terminology Management for Implantable Cardiac Electronic Device Lead Macro-Dislodgement

Ordenación terminológica sobre macrodislocación de electrodos de dispositivos cardíacos electrónicos implantables

To the Editor,

Poor lead positioning of implantable electronic cardiac devices is rare and discovered incidentally on occasion, but can have serious complications. Dislodgement of correctly positioned leads is common, however, and can be a significant source of clinical complications for patients with these devices. Lead dislodgement may be an incidental, asymptomatic finding in certain patients, while in others it can cause a wide range of clinical problems. These include extracardiac stimulation, inappropriate therapies by automatic defibrillators, syncope, and heart failure due to loss of cardiac resynchronization in patients with biventricular pacing, possibly leading to death from asystole in patients completely dependent on pacing.
Leaving aside injuries and iatrogenic conditions, several syndromes of lead macro-dislodgement have been described and cover the usual causes of lead dislodgement, namely, twiddler, reel, and ratchet syndromes.5,6 Although the problem is relevant, the terminology is confusing, perhaps because these terms were originally taken from individual case reports in the literature. Identical cases have been defined and classified differently by the authors and, conversely, different cases have been classified as identical. Some cases initially described as twiddler syndrome are actually forms of reel syndrome, and some cases described as either of these entities are actually cases of ratchet syndrome.5,6 Therefore, it would be appropriate to provide precise definitions for each of the potential mechanisms, in order to enhance our understanding of the mechanisms involved in each patient and to identify predictors of the problem, their consequences, and the frequency of actual presentation of each one.

Below we present a proposal for the precise definition and classification of these lead macro-dislodgement syndromes (Fig. 1).

**Twiddler syndrome:** Twiddler syndrome can be defined as lead retraction and dislodgement due to device generator rotation over the axis defined by the lead. Although external manipulation by the patient may make it easier for this to occur, it is not a necessary condition. As the generator rotates, the lead twists over itself, giving it a characteristic and definitive appearance (Fig. 2).

**Reel syndrome:** Reel syndrome can be defined as lead retraction and dislodgement due to generator rotation over its sagittal axis, which causes lead reeling above or below the
Acute Myocardial Infarction for Thrombotic Occlusion in Patient With Elevated Coagulation Factor VIII

Infarto agudo de miocardio por oclusión trombótica en paciente con elevación del factor VIII de la coagulación

To the Editor,

We read with interest the article in the July issue of the Revista Española de Cardiología about hematologic diseases and the heart. We believe it would be appropriate to add elevated factor VIII (FVIII) as a risk factor for venous and arterial thrombotic events. For example, we present the case of a 45-year-old man with no cardiovascular risk factors who played sports regularly and had a body mass index of 23. He attended our hospital because of severe chest pain after cycling for 20 min. The electrocardiogram (ECG) showed ST elevation in leads V2 to V6, I, and aVL, and complete right bundle branch block. Fibrinolytic therapy was administered (7000 U of tenecteplase) for the first hour after onset of pain and he was transferred to our hospital. On arrival, he was asymptomatic and hemodynamically stable; the ECG showed normal ST segment with normal QS in leads V2 to V3 and negative T-waves in the precordial leads. Transthoracic echocardiography on admission revealed a dilated left ventricle, with a slightly depressed left ventricular ejection fraction (LVEF) of 38% and anteroseptal akinesia. At 23 h after onset, coronary angiography was performed, showing the presence of thrombotic material in the proximal segment of the left anterior descending artery, responsible for 40% obstruction with distal TIMI III flow. The remaining vessels were free of disease (Fig. 1). The physical examination was normal; laboratory tests showed troponin I levels of 57 ng/mL and peak creatine kinase of 2440 IU/L. The lipid profile, blood count, and coagulation parameters were all normal. Given the lack of cardiovascular risk factors and the presence of arterial thrombosis, a hypercoagulation study was performed 48 h after admission to hospital. Fibrinogen, protein S, protein C, and antithrombin III levels were normal. Neither mutation of Leiden factor V nor lupus anticoagulant was detected. FVIII levels were elevated (234.2%; normal range, 50%-140%). The patient did not have a history of

Figure 1. Coronary angiography. Anteroposterior cranial view: thrombus in proximal segment of the left anterior descending artery.

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