A 32-year-old male was admitted to the emergency room due to traumatic brain injury. The computed tomography (CT), three hours after the trauma, showed an epidural hematoma with the swirl signal. After 24 hours the patient evolved with worsening of the condition and the CT was repeated (Figure).

The swirl signal is described as an area of low attenuation within an hyperattenuating hematoma\(^1\). Recent studies indicate that the swirl signal is a direct sign of hematoma expansion, associated with high morbidity and mortality rates\(^1\). Unlike the spot sign, another predictor of epidural hematoma expansion\(^2\text{-}^5\), the swirl signal does not require the use of contrast.

**Figure.** (A, B and C) Non-contrast CT shows an epidural hematoma (arrow in A) with the swirl signal (arrow in C). After 24 hours, a new non-contrast CT showed an evident hematoma expansion (D and E).
References


