# Abstract

**Objective:**

This scoping review aimed to clarify the role, risks, and potential benefits of locoregional anesthesia in patients with Ehlers-Danlos syndrome.

**Background:**

The perioperative management of patients with Ehlers-Danlos syndrome requires a thorough understanding of the disease. These patients frequently undergo orthopedic and obstetric procedures, in which locoregional anesthesia plays an important role.

**Methods:**

A structured literature search was conducted using the MEDLINE (via PubMed) and Embase databases. The search strategy was developed in accordance with the PRISMA-ScR guidelines for scoping reviews.

**Results:**

Fifty articles were identified after application of the exclusion criteria, of which 33 were selected after abstract screening and 24 were ultimately retained after full-text review. A total of 51 locoregional anesthetic procedures were identified, comprising 22 neuraxial and 29 peripheral techniques. Thirty-seven procedures were reported without adverse events. Documented complications predominantly involved neuraxial events and local anesthetic failure or resistance.

**Conclusion:**

Locoregional anesthesia may represent a viable anesthetic option in selected patients with Ehlers-Danlos syndrome. The decision should nonetheless rely on an individualized risk-benefit assessment integrating Ehlers-Danlos syndrome subtype, associated clinical manifestations, and anticipated procedural risks.

**Keywords:** Ehlers-Danlos syndrome; locoregional anesthesia; peripheral nerve block; local anesthetic resistance; connective tissue disorders