

## ANTICOAGULATION ATTENUATES LIVER FIBROSIS VIA TARGETING NEUTROPHIL EXTRACELLULAR TRAPS

Shiyao Chen

UEG Week Berlin 2025

Poster

Hepatobiliary

October 6, 2025

**Preclinical study in a mouse model of thioacetamide-induced liver fibrosis found that the anticoagulant edoxaban reduced collagen deposition, fibrosis-related gene expression, neutrophil infiltration, and markers of neutrophil extracellular traps (NETs).**

### KEY POINTS

- Mice treated with edoxaban (30 mg/kg daily for 3 weeks) showed significantly decreased hepatic collagen deposition compared to controls as measured by Masson's trichrome and Sirius Red morphometry.
- Edoxaban treatment significantly downregulated fibrosis-related genes Col1a1, Fn, and Acta2, and reduced inflammation-related gene expression.
- Differential gene expression analysis revealed enrichment in the NETs formation pathway in the treatment comparison.
- Edoxaban-treated mice showed significantly reduced neutrophil infiltration and lower expression of NETs markers including myeloperoxidase, neutrophil elastase, and citrullinated histone H3.
- The authors conclude that anticoagulation may alleviate liver fibrosis by targeting neutrophil extracellular traps, suggesting a novel therapeutic mechanism for liver fibrosis treatment.

VIEW THIS CONTENT ON GUTFLIX

<https://gutflix.eu/search/d/1452ab3a-a814-11f0-a185-0242ac140006>



**AI-generated summary**

This summary was generated by an AI large language model based on the content transcript. It is for informational purposes only and should not be considered a substitute for clinical judgment. Always rely on your professional expertise and the full clinical context when making clinical decisions.