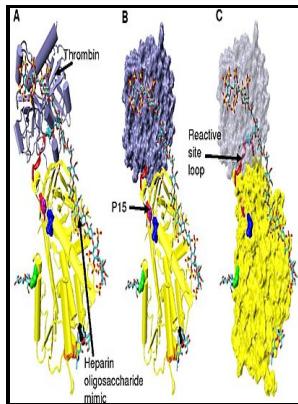


# Why does Heparin bind antithrombin?

Sveriges Lantbruksuniversitet - Heparin resistance



Description: -

- Labor unions -- British Columbia -- Congresses
  - British Columbia Federation of Labour
  - Head -- Wounds and injuries -- Congresses
  - Heparin. Why does Heparin bind antithrombin?
  - Why does Heparin bind antithrombin?
- Notes: Series of papers combined to form a thesis for the Department of Veterinary Medical Chemistry, Faculty of Veterinary Medicine, Swedish University of Agricultural Sciences, Uppsala.  
This edition was published in 1988



Filesize: 49.78 MB

Tags: #Antifactor #Xa #Monitoring #in #Patients #on #IV #Unfractionated #Heparin

## The use of heparin in preparing samples for blood gas analysis

Heparin for 5 days as compared with 10 days in the initial treatment of proximal venous thrombosis.

### Heparin

In Khanna R, Nolph KD, Prowant BF, Twardowski ZJ, Oreopoulos DG, eds. Anti-Xa values represent the amount of inhibition, not the amount of thrombin and fibrin that is able to be generated in the patient. Even though a weight-based approach to UFH dosing is superior, some clinicians still use the time-honored standard dosing regimens.

### Heparin

For example, a recent multicenter, randomized, controlled trial was performed involving adult patients with acute respiratory failure treated with venovenous ECMO who were randomized to manage heparin anticoagulation using either a TEG-based protocol target 16–24 min of the R parameter, TEG group or a standard of care aPTT-based protocol target 1. SUMMARY Heparin is the only anticoagulant used to prepare samples for blood gas analysis. Since the stoichiometry of inhibition is dependent on the relative rates of RCL insertion and deacylation, it is likely that either one or both are affected through the binding of heparin.

## The use of heparin in preparing samples for blood gas analysis

The high-affinity pentasaccharide is known to specifically bind to the same electropositive site on native antithrombin as the natural heparin pentasaccharide. The AHA and the ACCP recommend protocols using weight-based heparin dosing, which provides efficacious anticoagulation with favorable aPTT responses.

### PDI

Similar results have also been demonstrated in adult ECLS patients. Traditional blood gas analytes pH, pCO<sub>2</sub> and pO<sub>2</sub> are less affected than electrolytes particularly ionized calcium, also measured on modern blood gas analyzers. The Harmonizing Outcomes with Revascularization and Stents in Acute Myocardial Infarction HORIZONS-AMI trial reported a 34% relative and 1.



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