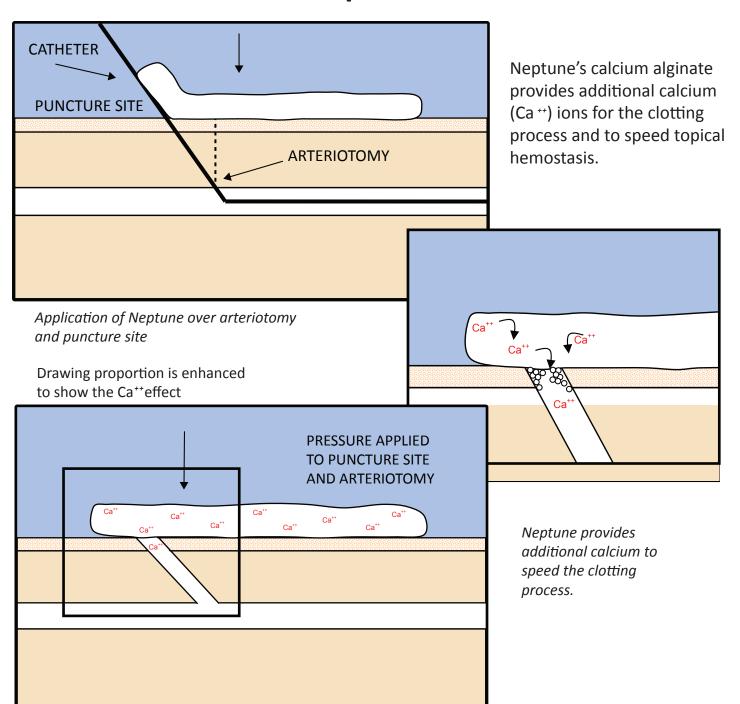


## What Makes Neptune So Effective?



TZ Medical Inc. 17750 SW Upper Boones Ferry Rd. #150 Portland, OR 97224 Office: 800.944.0187 Fax: 503.639.0239

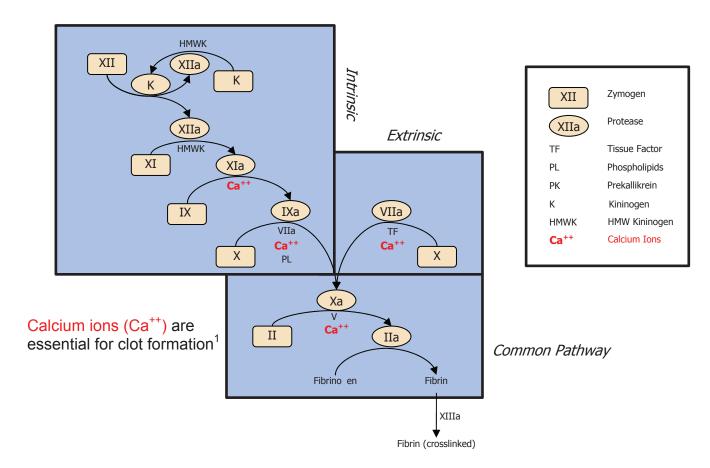
Office: 800.944.0187 Fax: 503.639.0239 www.tzmedical.com





## TZ MEDICAL NIEDTIINIE COLE

## **NEPTUNE SCIENCE**



## Neptune Calcium Alginate Pads work three ways by providing:

- 1. Additional calcium ions to speed topical clot formation
- 2. Hydrophilic absorption of excess blood as it speeds the clotting process
- 3. A textured matrix to facilitate clot formation

In vitro coagulation (clotting) 1	Clotting Time
Whole Blood	4-8 minutes
Whole Blood + EDTA (or citrate)	Infinite
Citrated platelet-poor plasma + Ca ++	2-4 minutes

Note: EDTA or citrate bind the available calcium ions in the blood so that they are unavailable for the clotting process

When calcium ions are unavailable to the process, clotting time is infinite.

Adding back an excess of Ca \*\* to citrated platelet-poor plasma causes clot formation.



<sup>&</sup>lt;sup>1</sup> Tollefsen, Douglas M.D. Ph.D, Internal Medicine and Biochemistry and Molecular Physics, Blood Coagulation, Washington University