Hemostasis in a Porcine Liver Resection Model

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NNIN Facility utilized: Characterization Facility

DESCRIPTION OF WORK
- Preclinical assessment of the hemostatic effectiveness of a novel product as compared with commercially available methods
- Established model of partial liver lobe resections in pigs
- Cellular aggregation was assessed using scanning electron microscopy (SEM)

MAJOR OBSERVATIONS
- The novel product provided comparable hemostatic treatment to liver resections in pigs as compared with commercially available technology
- SEM revealed that the mechanism of action of this novel product was due to a mechanical barrier that resulted in reduced blood flow
- The novel product was porous, allowing the aggregation of red blood cells (RBC) leading to hemostasis and the formation of an organized clot

There are no publications at this time, as this was an industry-initiated contract with ESS