

Saphenous Vein Harvest

Key Simulated steps and operative Principles

- Dissect, ligate and divide fine branches while harvesting the main vein

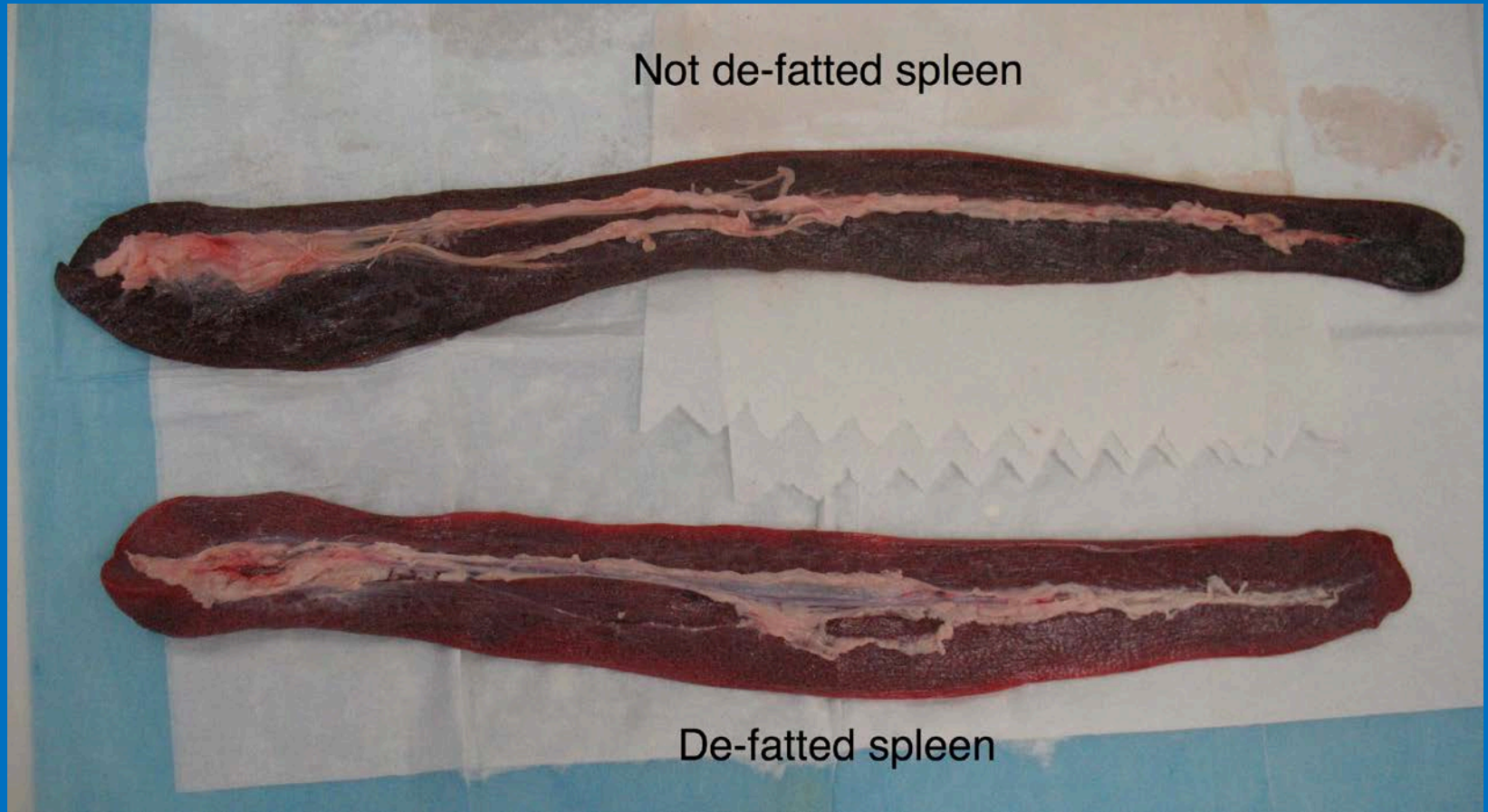
Goals and Objectives

- Dissect out small vessel branches carefully using fine instruments
- Tie off vessel branches securely without jeopardizing the integrity of the main vessel

Required Materials and Costs

- Pig spleen
- 4-0 silk tie
- Debakey forceps
- Metzbaum scissors
- Right angle
- Plastic box
- Wood board

Setup Step 1



De-fat hilum of the spleen to make the vessels easier to identify

Setup Step 2



Nail spleen into horseshoe shape on a wood board

Setup Step 3



Put it into a small box

Setup Step 4



Spray with water to keep the spleen moist

Procedure Step 1



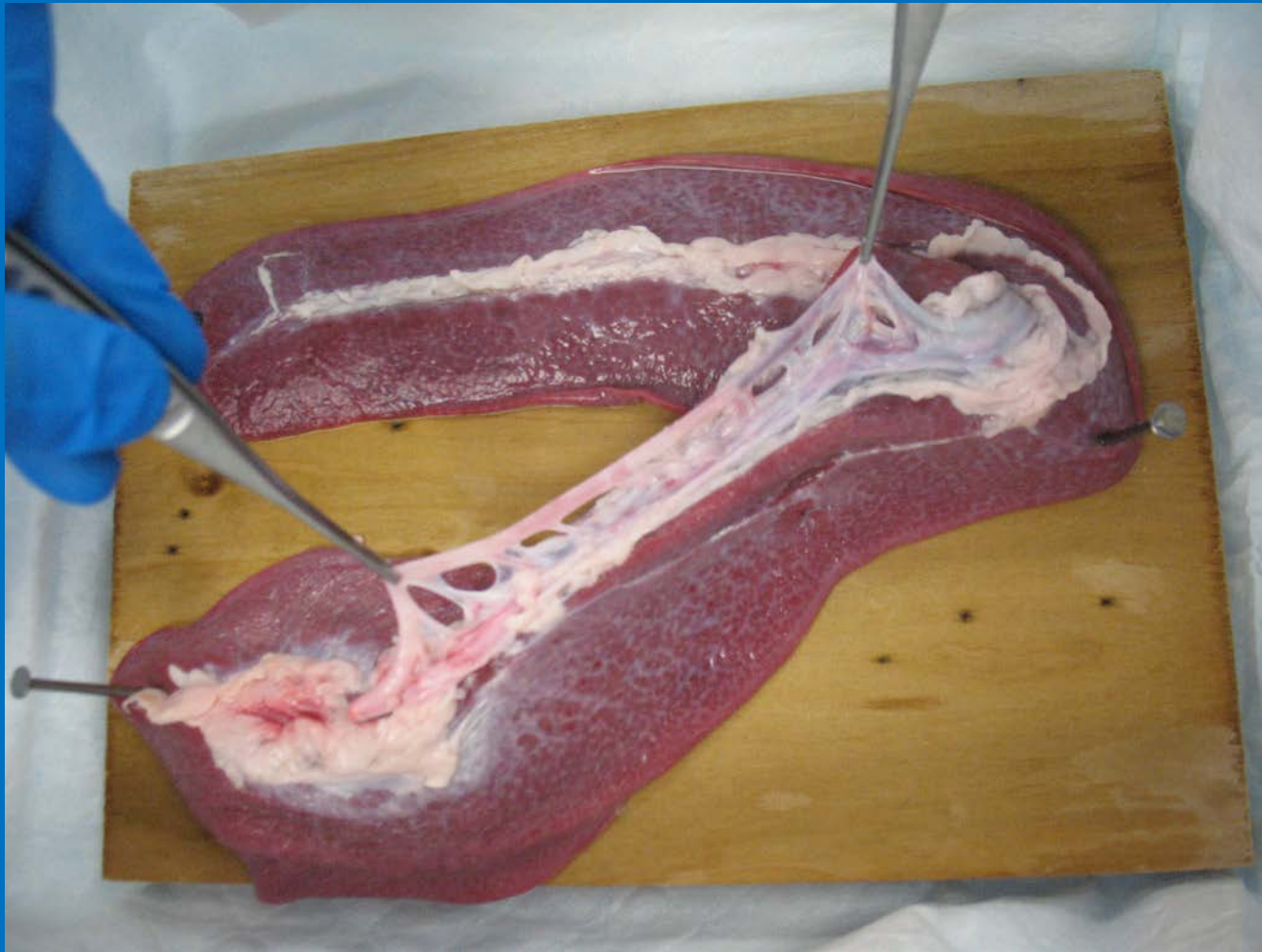
Start at one end and dissect one vessel

Procedure Step 2



Once you have ~ 2-3cm of the end of the vessel dissected free, cannulate the vessel with a cannula and secure cannula

Procedure Step 3



Isolate side branches while dissecting out entire vessel

Procedure Step 4



Tie off all side branches with 4-0 silk

Procedure Step 5



Harvested Vein tested

Checklist

- Able to dissect out each branch without causing injury to the vein
- Securely tie off branches without air knots and without avulsion
- Do not cause significant stenosis at the main vein when tying off branches
- Test the final harvest vein with color flush with no or minimal leak