



Rx

BOVINE PERICARDIAL PATCH

SYNKROSCAFF

SynkroScaff is comprised of a square-shaped Tissue Engineered Bovine Pericardium that has been preserved in a buffered solution for Cardiovascular Surgical Applications



COMPLETE BIOLOGICAL INTEGRATION

ZERO THROMBOGENICITY

ZERO CALCIFICATION

COMPLETELY ACELLULAR

DEVICE DESCRIPTION

SynkroScaff is comprised of a square-shaped Tissue Engineered Bovine Pericardium strengthened by Non-Glutaraldehyde crosslinking that has been preserved in a buffered solution.

APPLICATIONS

For Cardiovascular use:

- Neonatal ventricular septal defect repair
- Atrial septal defect repair
- Augmentation of aortic arch
- Pulmonary artery patch-plasty
- As a pericardial tube reservoir in Uni-focalization
- Aortic root augmentation
- Trans-annular patch in Tetralogy of Fallot to make a valved conduit out of it
- Ventriculoplasty in left ventricular aneurysm
- Making a blood vessel to resume anatomical continuity
- Anywhere to close the leak in the vascular system
- Many intracardiac repairs requiring a tubular connection inside the chambers as a conduit.
- Ventricular Septal Rupture Repair. Since it acquires blood supply and with dynamic forces of the body forms layers of appropriate cells and ECM it grows with the child.

CLINICAL BENEFITS

- SynkroScaff offers unquestionable biocompatibility. SynkroScaff is Bioactive and Autologous as the ECM structure is not disturbed and cell adhesion takes place.
- The patch offers versatile use over a wide range of Surgical repairs.
- As SynkroScaff is Non-Glutaraldehyde treated rinsing is not necessary. This saves time during surgical procedures.
- Cytotoxicity and antigenicity are absent through our proprietary technology
- Aneurysm formation and patch shrinkage has not been reported till date
- SynkroScaff exhibits excellent non-thrombogenic properties
- SynkroScaff prevents Calcification as open Carbohydroxyl moiety is absent and Gluteraldehyde treatment (which is 100% cytotoxic) is not used during processing

PROPERTIES

- SynkroScaff can be sutured or stapled to the host tissue/blood vessel
- SynkroScaff is rustic in appearance on the outer side, so that the luminal side is identified easily and the ionic charge is maintained.
- Being thin and strong, suturability is easier. Thinness does not correlate with strength, it has a burst strength of 64KPa which is double the strength of Glutaraldehyde treated Bovine Patches

PACKAGING

- SynkroScaff is supplied in a sterile and non-pyrogenic, sealed container and is designed to facilitate convenient, aseptic transfer of the pericardium to the sterile field
- SynkroScaff is available in 4X4CM, 6X6CM, and 8X8CM sizes
- A Medical Insert containing directions for use has been provided with the packaging for Doctors' reference



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