OVERVIEW
Surgical ventricular restoration (SVR) is designed to restore or remodel the left ventricle to its normal, spherical shape and size in patients with akinetic segments of the heart, secondary to ischemic dilated cardiomyopathy.

PRIOR AUTHORIZATION
Prior authorization is not required.

POLICY STATEMENT
BlueCHiP for Medicare and Commercial Products
Surgical ventricular restoration is considered not medically necessary as the evidence is insufficient to determine the effects of the technology on health outcomes.

MEDICAL CRITERIA
Not applicable

BACKGROUND
Surgical ventricular restoration is also known as surgical anterior ventricular endocardial restoration (SAVER), left ventricular reconstructive surgery, endoventricular circular plasty, or the Dor procedure (named after Vincent Dor, MD). Dr. Dor pioneered the expansion of techniques for ventricular reconstruction and is credited with treating heart failure patients with SVR and coronary artery bypass grafting (CABG). SVR is usually performed after CABG and may precede or be followed by mitral valve repair or replacement and other procedures such as endocardiectomy and cryoablation for treatment of ventricular tachycardia. A key difference between SVR and ventriculectomy (i.e., for aneurysm removal) is that, in SVR, circular “purse string” suturing is used around the border of the aneurysmal scar tissue. Tightening of this suture is believed to isolate the akinetic or dyskinetic scar, bring the healthy portion of the ventricular walls together, and restore a more normal ventricular contour. If the defect is large (i.e., an opening >3 cm), the ventricle may also be reconstructed using patches of autologous or artificial material to maintain the desired ventricular volume and contour during closure of the ventriculotomy. In addition, SVR is distinct from partial left ventriculectomy (i.e., the Batista procedure); which does not attempt to specifically resect akinetic segments and restore ventricular contour.

The Surgical Treatment of Ischemic Heart Failure (STICH) trial did not report significant improvements in quality-of-life outcomes for patients undergoing SVR as an adjunct to standard coronary artery bypass grafting surgery. Several uncontrolled studies have suggested that SVR can improve hemodynamic functioning in selected patients with ischemic cardiomyopathy; however, these studies are considered lower quality evidence. The evidence is insufficient to determine the effects of the technology on health outcomes.

REGULATORY STATUS
In 2004, the CorRestore™ Patch System (Somanetics Corp.) was cleared for marketing by the U.S. Food and Drug Administration (FDA) through the 510(k) process for use “as an intracardiac patch for cardiac reconstruction and repair.” The device consists of an oval tissue patch made from glutaraldehyde-fixed bovine pericardium. It is identical to other marketed bovine pericardial patches, except that it incorporates an
integral suture bolster in the shape of a ring that is used along with ventricular sizing devices to restore the normal ventricular contour. Product code: DXZ.

**COVERAGE**

**BlueCHiP for Medicare and Commercial Products**

Benefits may vary between groups/contracts. Please refer to the appropriate section of the Benefit Booklet, Evidence of Coverage, or Subscriber Agreement for services not medically necessary.

**CODING**

**BlueCHiP for Medicare and Commercial Products**

The following code is not medically necessary:

**33548** Surgical ventricular restoration procedure, includes prosthetic patch, when performed (e.g., ventricular remodeling, SVR, SAVER, Dor procedures)

**RELATED POLICIES**

None

**PUBLISHED**

Provider Update, May 2017

**REFERENCES**


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