TRANSCATHETER CLOSURE OF SEPTAL DEFECTS

Effective Date: January 1, 2018
Date Of Origin: April 11, 2007
Status: Current

I. POLICY/CRITERIA

A. Transcatheter closure of septal defects using FDA approved devices is covered for any of the following:
   1. Secundum atrial septal defects (ASDs)
   2. Patent ductus arteriosis (PDA)
   3. Fenestration following a Fontan procedure

B. Transcatheter closure of patent foramen ovale (PFO) is covered for associated cryptogenic stroke, transient ischemic attack, or arterial embolism due to presumed paradoxical embolism through the PFO, when conventional drug therapy (one or more antithrombotics) has failed. The device must be FDA approved (e.g. Amplatzer PFO Occluder) and used as labelled.

C. Transcatheter closure of septal defects is not covered for all other indications including, but not limited to:
   1. Ventricular septal defects
   2. When any of the following conditions are present:
      - Multiple defects that cannot be adequately covered by the device
      - Associated congenital cardiac anomalies that require cardiac surgery
      - Ostium primum atrial septal defects
      - Sinus venosus atrial septal defects
      - Partial anomalous pulmonary venous drainage
      - Pulmonary hypertension
      - Congestive heart failure
      - Sepsis
      - Coagulation disorders in patients who are unable to take antiplatelet or anticoagulant therapy
   3. Migraine prophylaxis
   4. Transmyocardial (perventricular) transcatheter closure of VSDs
   5. Obstructive Sleep Apnea

II. MEDICAL NECESSITY REVIEW

☐ Required    ☒ Not Required    ☐ Not Applicable
III. APPLICATION TO PRODUCTS

Coverage is subject to member’s specific benefits. Group specific policy will supersede this policy when applicable.

- **HMO/EPO:** This policy applies to insured HMO/EPO plans.
- **POS:** This policy applies to insured POS plans.
- **PPO:** This policy applies to insured PPO plans. Consult individual plan documents as state mandated benefits may apply. If there is a conflict between this policy and a plan document, the provisions of the plan document will govern.
- **ASO:** For self-funded plans, consult individual plan documents. If there is a conflict between this policy and a self-funded plan document, the provisions of the plan document will govern.
- **INDIVIDUAL:** For individual policies, consult the individual insurance policy. If there is a conflict between this medical policy and the individual insurance policy document, the provisions of the individual insurance policy will govern.
- **MEDICARE:** Coverage is determined by the Centers for Medicare and Medicaid Services (CMS); if a coverage determination has not been adopted by CMS, this policy applies.
- **MEDICAID/HEALTHY MICHIGAN PLAN:** For Medicaid/Healthy Michigan Plan members, this policy will apply. Coverage is based on medical necessity criteria being met and the appropriate code(s) from the coding section of this policy being included on the Michigan Medicaid Fee Schedule located at: [http://www.michigan.gov/mdch/0,1607,7-132-2945,42542-42543-42546-42551-159815--,00.html](http://www.michigan.gov/mdch/0,1607,7-132-2945,42542-42543-42546-42551-159815--,00.html). If there is a discrepancy between this policy and the Michigan Medicaid Provider Manual located at: [http://www.michigan.gov/mdch/0,1607,7-132-2945,5100-87572--,00.html](http://www.michigan.gov/mdch/0,1607,7-132-2945,5100-87572--,00.html), the Michigan Medicaid Provider Manual will govern. If there is a discrepancy or lack of guidance in the Michigan Medicaid Provider Manual, the Priority Health contract with Michigan Medicaid will govern. For Medical Supplies/DME/Prosthetics and Orthotics, please refer to the Michigan Medicaid Fee Schedule to verify coverage.

IV. DESCRIPTION

Background

Transcatheter septal occlusion devices are implantable devices that are used to repair septal wall defects. Atrial or ventricular defects in the septal wall of the heart can have a number of adverse consequences, including abnormal ventricular volume load, ventricular pressure load, mixing of unoxygenated and oxygenated blood and inadequate systemic cardiac output. These abnormalities can lead to cardiac enlargement, pulmonary hypertension, rhythm disturbance, and stroke. Conventional open-heart surgical repair of septal defects carries some risk, especially in patients in whom heart or pulmonary function may be compromised. In addition, there is considerable morbidity associated with open-heart surgery. Moreover, some types of ventricular septal defects (VSDs) are difficult to repair surgically due to their location or orientation. Consequently, there has been considerable interest in the development of a transcatheter method of repairing septal lesions. Access to the defect is achieved through the venous system via the internal jugular vein or femoral vein in the groin.
V. CODING INFORMATION

ICD-10 Codes that may apply:
Q21.1 Atrial septal defect
Q21.2 Atrioventricular septal defect
Q25.0 Patent ductus arteriosus
I23.1 Atrial septal defect as current complication following acute myocardial infarction
I51.0 Cardiac septal defect, acquired

CPT Codes:
93580 Percutaneous transcatheter closure of congenital interatrial communication (i.e., Fontan fenestration, atrial septal defect) with implant
93582 Percutaneous transcatheter closure of patent ductus arteriosus

HCPCS Codes:
C1817 Septal defect implant system, intracardiac
C2628 Catheter, occlusion

Not Covered
93581 Percutaneous transcatheter closure of a congenital ventricular septal defect with implant
93799 Unlisted cardiovascular service or procedure (for transcatheter ventricular septal defect procedure – explanatory notes must accompany claim)

VI. REFERENCES

7. Wisconsin Physicians Service (WPS), Medical Devices, Local Coverage Decision (LCD), PHY 067, Original effective date: 09/01/1996, Revision date: 01/01/2005.
8. Wisconsin Physicians Service (WPS), Transesophageal Echocardiography, Local Coverage Decision (LCD) CV-007, Original effective date: 02/15/1996, Revision date: 10/01/2005.