**Congenital Heart Disease**

Congenital heart disease affects an estimated 1 million people in America. Each year, approximately 1 in every 120 babies born in the United States has a congenital heart defect. In some cases, the disease is life-threatening at birth. However, many people with a congenital heart condition do not know about it for years. Experts at Cleveland Clinic have extensive experience in the diagnosis and treatment of patients with all forms of congenital heart disease. The Center for Pediatric and Adult Congenital Heart Disease’s services are further enhanced by the Special Delivery Unit. The unit provides in utero diagnosis of complex heart conditions and immediate treatment after birth. Patients with more complex congenital heart disease who have surgery often require additional treatment or procedures throughout their lifetime and, therefore, need follow-up care from a team of experts in congenital heart disease.

**Percutaneous Closure Procedures for Adult Congenital Heart Disease**

**Volume and Outcomes (N = 46)**

**2014**

A total of 46 patients had percutaneous closure procedures at Cleveland Clinic in 2014. The success rate was 100%, and the mortality rate was 0% for both ASD and PFO closures.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percutaneous ASD closures</td>
<td>18</td>
</tr>
<tr>
<td>Percutaneous PFO closures</td>
<td>28</td>
</tr>
</tbody>
</table>

Abbreviations: ASD = atrial septal defect, PFO = patent foramen ovale
Adult Congenital Heart Surgery Volume and Type (N = 261)

2014
The largest subset of the 261 adult congenital surgeries performed at Cleveland Clinic in 2014 were aorta surgeries.

Adult Congenital Heart Surgery In-Hospital Mortality

2014
The in-hospital mortality rate for adult congenital surgery at Cleveland Clinic in 2014 was 1.3%, compared with the expected rate of 2.2%. Many of these patients have very complex medical backgrounds and conditions, and have had multiple surgeries.

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Pediatric Congenital Heart Surgery Volume and Type (N = 150)

2014

Cleveland Clinic surgeons performed 150 pediatric congenital surgeries in 2014. Procedures in the “other” category included truncus arteriosus repair and various procedures of varying complexity.

Abbreviations: ASD = atrial septal defect, ASO = arterial switch operation, AV = atrioventricular, ECMO = extracorporeal membrane oxygenation, PA = pulmonary arterioplasty, PDA = patent ductus arteriosus ligation, RV = right ventricle, TOF = tetralogy of Fallot, VAD = ventricular assist device, VSD = ventricular septal defect

Pediatric Congenital Heart Surgery In-Hospital Mortality

2012 – 2014

Cleveland Clinic is committed to achieving the best possible outcomes for patients. The in-hospital mortality rate for pediatric congenital surgery patients has been reduced by more than 3 percentage points since 2012.