# **CARDIOLOGY\_Team4\_Report.docx**

## **Research Documentation**

#### Congenital Heart Defect and Other Vascular Condition

**Team 4 (Cardiology)** sourced data from the following:

* **Sources Used**:
  + PubMed
  + American Heart Association (AHA)
  + World Health Organization (WHO) reports
  + Clinical guidelines from the European Society of Cardiology (ESC)
  + CDC
  + Mayo clinic
  + Cleveland clinic
  + NCBI bookshelf
  + John Hopkins clinic b

**Methodology**:  
 We searched clinical guidelines using keywords such as *"congenital heart disease management, causes, epidemiology"*, *"CHD treatment 2020+"*, and *"pediatric cardiology guidelines"*. Filters were applied for:

* Publication dates from 2019 to 2025
* English language
* Human studies
* Pediatric and adolescent populations

We prioritized systematic reviews, meta-analyses, and guidelines.

**Challenges Faced**:

* Limited recent data on rare congenital heart anomalies (e.g., Ebstein's anomaly)
* Some regional treatment guidelines (e.g., Sub-Saharan Africa) lacked detailed data
* Variability in classification systems across studies (e.g., cyanotic vs. acyanotic grouping)

**Date Accessed**:  
 May 2–8, 2025

**Description of Contents**:  
 Collected documents included:

* AHA guidelines on congenital heart disease (2023)
* WHO statistical updates on pediatric CHD mortality
* Meta-analyses on surgical outcomes and long-term prognosis
* Pulmonary hypertension

**File Format and Size**:

* PDF (guidelines): MB
* Word notes/summaries: 2.5MB

### **2. Disease List & Individual Contributions**

**Specialty**: Cardiology

| **Diseases/Conditions** | **Team Member Assigned** |
| --- | --- |
| Atrial Septal Defect (ASD), | SHARON-ROSE EL |
| Ventricular Septal Defect (VSD), |  |
| Tetralogy of Fallot, |  |
| Coarctation of the Aorta, |  |
| Transposition of the Great Arteries (TGA),  Pulmonary Stenosis, Tricuspid atresia,  Hypoplastic left heart syndrome,  Total Anomalous Pulmonary Venous Return (TAPVR), Truncus arteriosus, Coarctation aorta, Single ventricle defects, Pulmonary valve stenosis, Bicuspid aortic valve, Double outlet right Ventricle, Hypertensive heart failure,  Hypertensive heart disease, Hypertensive crisis,  Heart murmur, Myocardial infarction,  Rheumatic heart disease |  |

### **3. Submission Details**

* **Deadline**: May 8, 2025