

Cardiac Assist Devices (CAD) Global Market - Forecast to 2027

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Abstracts

The heart conditions are considered advanced or end-stage heart failure when conventional heart therapies and management strategies no longer work. The reduced ability of the heart to pump blood and maintain normal bodily function leads to heart failure. Heart transplantation is currently the preferred treatment for end-stage heart failure. The availability of donor heart is insufficient to meet the required demand and many patients are not eligible for transplantation due to age and other health conditions. The Cardiac assist devices (CAD) i.e., Ventricular Assist Devices (VAD), Total Artificial Heart (TAH), and Intra-Aortic Balloon Pump (IABP) are used to treat various conditions related to the heart such as end-stage heart failure, refractory angina pectoris, post-cardiopulmonary bypass shock, myocardial infarction, myocarditis and others. The ventricular assist device is a mechanical pump that supports heart function and blood flow by reducing the workload of the left ventricle, right ventricle, or both left and right ventricles helping the heart to pump oxygenated blood to the rest of the body. The indication for VAD use is acute cardiogenic shock (post-cardiac surgery, myocarditis, and massive myocardial infarction) and chronic heart failure. Percutaneous Ventricular Assist Devices (PVADs) to provide hemodynamic support in patients undergoing high-risk percutaneous coronary intervention (PCI). PVADs are often used as temporary support in left ventricular failure patients who are assisted for LVAD implantation. An artificial heart (TAH) is a mechanical assist device for people with biventricular heart failure and heart transplant candidate which replaces both native ventricles and all four chambers of the heart, thereby eliminating the symptoms of cardiac insufficiency or heart failure. Intra-aortic balloon pump (IABP) is placed in the aorta to help the heart to pump more blood by reducing the workload on the heart and improves the function of the left ventricle as this is the chamber that pumps blood into the aorta. IABP is used in conditions such as acute mitral valve regurgitation or severe heart failure, left ventricular failure, unstable angina and others.

According to IQ4I Analysis, the CAD global market is expected to grow at a high single digit CAGR from 2020 to 2027 to reach \$4,813.5 million by 2027. Cardiac Assist Devices based on product type are segmented into Ventricular assist device (VAD), Total Artificial Heart (TAH), and Intra-Aortic Balloon Pump (IABP) among which VAD commanded the largest share in 2020 and is expected to grow at a strong double digit CAGR from 2020 to 2027. Ventricular assist device is sub-segmented into Left Ventricular Assist Devices (LVAD), Right Ventricular Assist Devices (RVAD), and Biventricular Assist Devices (Bi-VAD). Among this, LVAD commanded the largest revenue in 2020 and is expected to grow at a strong double digit CAGR from 2020 to 2027. CAD market based on pump type is segmented into Pulsatile Pump and Continuous Flow Pump, among which, continuous flow pump segment commanded the largest share in 2020 and is expected to grow at double digit CAGR from 2020 to 2027. The continuous flow pump is further segmented into axial flow pump and Centrifugal flow pump, the axial flow pump generated the largest revenue in 2020 and is expected to grow at a strong double digit CAGR from 2020 to 2027. CAD market based on implant type is segmented into Extracorporeal CAD, Intracorporeal CAD, and Percutaneous CAD, among these, percutaneous CAD generated the largest revenue in 2020 and is expected to grow at a strong double digit CAGR from 2020 to 2027. CAD market based on patient type is segmented into Adult and Pediatric, among which, adult market commanded the largest revenue in 2020. The CAD application market is classified as Bridge to Transplant (BTT), Bridge to destination (BTD), Bridge to Recovery (BTR), and Bridge to Candidacy (BTC) among which Bridge to recovery (BTR) commanded the largest share in 2020 and is expected to grow at a strong double digit CAGR from 2020 to 2027.

Some of the key players of the Cardiac assist devices are Abbott Laboratories (U.S.), Medtronic PLC (Ireland), Abiomed, Inc (U.S.), Reliant Heart, Inc (U.S.), Fresenius Medical Care AG & Co. KGaA Care AG & Co. KGaA (Germany), Getinge Group (Sweden), Syncardia Systems LLC (U.S.), Zeon Corporation (Japan), Teleflex Incorporated (U.S.) and others.

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FIGURE 19 JAPAN IABP MARKET PENETRATION, (2020) (%)

FIGURE 20 CARDIAC ASSIST DEVICES GLOBAL MARKET: SUPPLY CHAIN ANALYSIS

FIGURE 21 CARDIAC ASSIST DEVICES (CAD) GLOBAL MARKET SHARE ANALYSIS, BY KEY PLAYERS, 2020 (%)

FIGURE 22 VENTRICULAR ASSIST DEVICES (VAD) GLOBAL MARKET SHARE ANALYSIS, BY KEY PLAYERS, 2020 (%)

FIGURE 23 INTRA-AORTIC BALLOON PUMP (IABP) GLOBAL MARKET SHARE ANALYSIS, BY KEY PLAYERS, 2020 (%)

FIGURE 24 CARDIAC ASSIST DEVICES GLOBAL MARKET SHARE, BY PRODUCTS (2020 V/S 2027) (%)

FIGURE 25 VENTRICULAR ASSIST DEVICES GLOBAL MARKET SHARE, BY

PRODUCTS (2020 V/S 2027) (%)

FIGURE 26 CARDIAC ASSIST DEVICES GLOBAL MARKET SHARE, BY IMPLANT TYPE (2020 V/S 2027) (%)

FIGURE 27 CARDIAC ASSIST DEVICES GLOBAL MARKET SHARE, BY PUMP TYPE (2020 V/S 2027) (%)

FIGURE 28 CONTINUOUS FLOW PUMP GLOBAL MARKET SHARE, BY PUMP TYPE (2020 V/S 2027) (%)

FIGURE 29 CARDIAC ASSIST DEVICES GLOBAL MARKET SHARE, BY PATIENT TYPE (2020 V/S 2027) (%)

FIGURE 30 CARDIAC ASSIST DEVICES GLOBAL MARKET SHARE, BY APPLICATION, (2020 V/S 2027) (%)

FIGURE 31 CAD TREATMENT FLOW CHART

FIGURE 32 CARDIAC ASSIST DEVICES GLOBAL MARKET REVENUE, BY REGION (2019-2027) (\$MN), CAGR (%)

FIGURE 33 NORTH AMERICA CARDIAC ASSIST DEVICES MARKET SHARE, BY PRODUCTS, (2020 V/S 2027) (%)

FIGURE 34 NORTH AMERICA VENTRICULAR ASSIST DEVICES MARKET SHARE, BY PRODUCTS, (2020 V/S 2027) (%)

FIGURE 35 NORTH AMERICA CARDIAC ASSIST DEVICES MARKET SHARE, BY IMPLANT TYPE (2020 V/S 2027) (%)

FIGURE 36 NORTH AMERICA CARDIAC ASSIST DEVICES MARKET REVENUE, BY PUMP TYPE AND CONTINUOUS FLOW PUMP TYPE (2020) (\$MN)

FIGURE 37 NORTH AMERICA CARDIAC ASSIST DEVICES MARKET SHARE, BY PATIENT TYPE (2020 V/S 2027) (%)

FIGURE 38 NORTH AMERICA CARDIAC ASSIST DEVICES MARKET SHARE, BY APPLICATION (2020 V/S 2027) (%)

FIGURE 39 NORTH AMERICA CARDIAC ASSIST DEVICES MARKET SHARE, BY COUNTRY, (2020 V/S 2027) (%)

FIGURE 40 U.S. CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES MARKET REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 41 U.S. CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 42 U.S. CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION TYPE (2020 V/S 2027) (\$MN)

FIGURE 43 REST OF NORTH AMERICA CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES MARKET REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 44 REST OF NORTH AMERICA CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 45 REST OF NORTH AMERICA CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION (2020 V/S 2027) (\$MN)

FIGURE 46 EUROPE CARDIAC ASSIST DEVICES MARKET SHARE, BY PRODUCTS, (2020 V/S 2027) (%)

FIGURE 47 EUROPE VENTRICULAR ASSIST DEVICES MARKET SHARE, BY PRODUCTS, (2020 V/S 2027) (%)

FIGURE 48 EUROPE CARDIAC ASSIST DEVICES MARKET SHARE, BY IMPLANT TYPE (2020 V/S 2027) (%)

FIGURE 49 EUROPE CARDIAC ASSIST DEVICES MARKET REVENUE, BY PUMP TYPE AND CONTINUOUS FLOW PUMP TYPE (2020) (\$MN)

FIGURE 50 EUROPE CARDIAC ASSIST DEVICES MARKET SHARE, BY PATIENT TYPE (2020 V/S 2027) (%)

FIGURE 51 EUROPE CARDIAC ASSIST DEVICES MARKET SHARE, BY APPLICATION (2020 V/S 2027) (%)

FIGURE 52 EUROPE CARDIAC ASSIST DEVICES MARKET SHARE, BY COUNTRY, (2020 V/S 2027) (%)

FIGURE 53 GERMANY CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES MARKET REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 54 GERMANY CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 55 GERMANY CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION (2020 V/S 2027) (\$MN)

FIGURE 56 FRANCE CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES MARKET REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 57 FRANCE CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 58 FRANCE CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION (2020 V/S 2027) (\$MN)

FIGURE 59 U.K. CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES MARKET REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 60 U.K. CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 61 U.K. CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION (2020 V/S 2027) (\$MN)

FIGURE 62 REST OF EUROPE CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES MARKET REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 63 REST OF EUROPE CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 64 REST OF EUROPE CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION (2020 V/S 2027) (\$MN)

FIGURE 65 APAC CARDIAC ASSIST DEVICES MARKET SHARE, BY PRODUCTS, (2020 V/S 2027) (%)

FIGURE 66 APAC VENTRICULAR ASSIST DEVICES MARKET SHARE, BY PRODUCTS, (2020 V/S 2027) (%)

FIGURE 67 APAC CARDIAC ASSIST DEVICES MARKET SHARE, BY IMPLANT TYPE (2020 V/S 2027) (%)

FIGURE 68 APAC CARDIAC ASSIST DEVICES MARKET REVENUE, BY PUMP TYPE AND CONTINUOUS FLOW PUMP TYPE (2020) (\$MN)

FIGURE 69 APAC CARDIAC ASSIST DEVICES MARKET SHARE, BY PATIENT TYPE (2020 V/S 2027) (%)

FIGURE 70 APAC CARDIAC ASSIST DEVICES MARKET SHARE, BY APPLICATION (2020 V/S 2027) (%)

FIGURE 71 APAC CARDIAC ASSIST DEVICES MARKET SHARE, BY COUNTRY, (2020 V/S 2027) (%)

FIGURE 72 JAPAN CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES (VAD) MARKET REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 73 JAPAN CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 74 JAPAN CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION (2020 V/S 2027) (\$MN)

FIGURE 75 CHINA CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES (VAD) MARKET REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 76 CHINA CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 77 CHINA CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION (2020 V/S 2027) (\$MN)

FIGURE 78 INDIA CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES MARKET (VAD) REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 79 INDIA CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 80 INDIA CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION (2020 V/S 2027) (\$MN)

FIGURE 81 REST OF APAC CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES MARKET (VAD) REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 82 REST OF APAC CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 83 REST OF APAC CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION (2020 V/S 2027) (\$MN)

FIGURE 84 ROW CARDIAC ASSIST DEVICES MARKET SHARE, BY PRODUCTS, (2020 V/S 2027) (%)

FIGURE 85 ROW VENTRICULAR ASSIST DEVICES MARKET SHARE, BY PRODUCTS, (2020 V/S 2027) (%)

FIGURE 86 ROW CARDIAC ASSIST DEVICES MARKET SHARE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (%)

FIGURE 87 ROW CARDIAC ASSIST DEVICES MARKET REVENUE, BY PUMP TYPE AND CONTINUOUS FLOW PUMP TYPE (2020) (\$MN)

FIGURE 88 ROW CARDIAC ASSIST DEVICES MARKET SHARE, BY PATIENT TYPE (2020 V/S 2027) (%)

FIGURE 89 ROW CARDIAC ASSIST DEVICES MARKET SHARE, BY APPLICATION (2020 V/S 2027) (%)

FIGURE 90 ROW CARDIAC ASSIST DEVICES MARKET SHARE, BY COUNTRY, (2020 V/S 2027) (%)

FIGURE 91 BRAZIL CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES MARKET REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 92 BRAZIL CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 93 BRAZIL CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION (2020 V/S 2027) (\$MN)

FIGURE 94 REST OF LATIN AMERICA CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES MARKET REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 95 REST OF LATIN AMERICA CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 96 REST OF LATIN AMERICA CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION (2020 V/S 2027) (\$MN)

FIGURE 97 MIDDLE EAST AND OTHERS CARDIAC ASSIST DEVICES (CAD) AND VENTRICULAR ASSIST DEVICES MARKET REVENUE, BY PRODUCTS (2020 V/S 2027) (\$MN)

FIGURE 98 MIDDLE EAST AND OTHERS CARDIAC ASSIST DEVICES MARKET REVENUE, BY IMPLANT TYPE/PUMP TYPE/PATIENT TYPE (2020 V/S 2027) (\$MN)

FIGURE 99 MIDDLE EAST AND OTHERS CARDIAC ASSIST DEVICES MARKET REVENUE, BY APPLICATION (2020 V/S 2027) (\$MN)

FIGURE 100 KEY GROWTH STRATEGIES, (2020-2021)

FIGURE 101 SWOT: ABBOTT LABORATORIES

FIGURE 102 SWOT: ABIOMED, INC.

FIGURE 103 SWOT: BERLIN HEART GMBH

FIGURE 104 SWOT: FRESENIUS MEDICAL CARE AG & CO. KGAA CARE (XENIOS AG)

FIGURE 105 SWOT: GETINGE GROUP (MAQUET)

FIGURE 106 SWOT: LIVANOVA, PLC

FIGURE 107 SWOT: MEDTRONIC, PLC

FIGURE 108 SWOT: SYNCARDIA SYSTEMS, LLC

FIGURE 109 SWOT: TELEFLEX INCORPORATED

FIGURE 110 SWOT: ZEON CORPORATION

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