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German Heart Center Berlin, Germany

REVIEWED BY

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Kroszka Christoph,
German Heart Center Berlin, Germany
Matthew Caporizzo,
University of Vermont, United States

*CORRESPONDENCE

Fotios G. Pitoulis
✉ fp314@ic.ac.uk

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Cardiac mechanics and reverse remodelling under mechanical support from left ventricular assist devices

Blanca Pamias-Lopez¹, Michael E. Ibrahim² and Fotios G. Pitoulis^{1,2*}

¹Department of Myocardial Function, Imperial College London, National Heart and Lung Institute, London, United Kingdom, ²Division of Cardiovascular Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA, United States

In recent years, development of mechanical circulatory support devices has proved to be a new treatment modality, in addition to standard pharmacological therapy, for patients with heart failure or acutely depressed cardiac function. These include left ventricular assist devices, which mechanically unload the heart when implanted. As a result, they profoundly affect the acute cardiac mechanics, which in turn, carry long-term consequences on myocardial function and structural function. Multiple studies have shown that, when implanted, mechanical circulatory assist devices lead to reverse remodeling, a process whereby the diseased myocardium reverts to a healthier-like state. Here, we start by first providing the reader with an overview of cardiac mechanics and important hemodynamic parameters. We then introduce left ventricular assist devices and describe their mode of operation as well as their impact on the hemodynamics. Changes in cardiac mechanics caused by device implantation are then extrapolated in time, and the long-term consequences on myocardial phenotype, as well as the physiological basis for these, is investigated.

KEYWORDS

cardiac remodeling, left ventricular assist device (LVAD), impella, pressure volume (PV) curve, reverse remodeling, hemodynamics

Introduction

Chronic pathological hemodynamic stress following an index event (e.g., pressure-, or volume-overload) alters myocardial molecular, cellular, and interstitial factors, manifesting clinically as changes in size, shape, and function of the heart. Each stressor can affect the operation and mechanics of the heart distinctly across time and with often different underlying mechanisms (1, 2). However, when left uncorrected prolonged hemodynamic overload ubiquitously leads to heart failure (HF), characterized by dilation of heart size and deterioration of contractile function. The development of mechanical support devices has provided a new way to both halt the vicious cycle of haemodynamic overload before progression to HF, but also to support the failing heart, allowing reversal of overload-induced structural and functional pathology, in a process termed reverse remodeling.

Mechanical support devices can provide univentricular or biventricular support, can be implanted percutaneously or surgically, provide varying amounts of cardiac output (CO) support and for different durations (3). An important distinction is that although all mechanical support devices provide some degree of circulatory support, not all circulatory support devices mechanically unload the myocardium, and some may even overload it. For example, veno-arterial extracorporeal membrane oxygenation (VA-ECMO) is

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