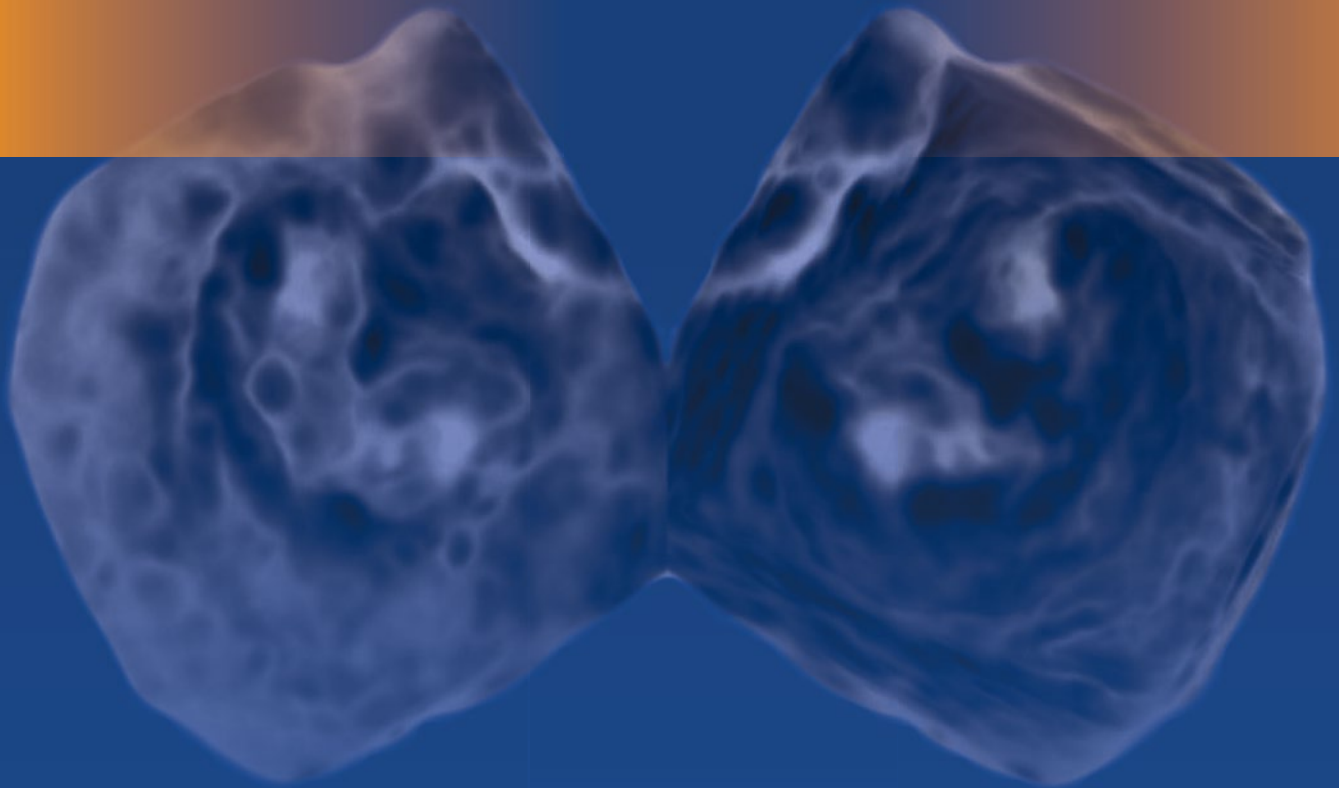


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Editors

An Atlas of Mitral Valve Imaging



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 Springer

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I would like to acknowledge my wife, Rajul, and my kids, Ria and Rohan, for their tremendous support in life.

MD

To my husband and son, Dan and Hamish Waters, for their unwavering love and support. Their ongoing encouragement, understanding, and sacrifice allow me to pursue my academic dreams.

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TY

Preface

Imaging and assessment of the mitral valve provides ongoing challenges due to its complicated structure and physiology. For decades, echocardiologists have been seeking new methods to evaluate the mitral valve and quantitate valve dysfunction. From the era of M-mode through development of two-dimensional Doppler and now three-dimensional techniques, echocardiography has remained the imaging modality of choice. The fact that there are still so many measures employed to assess the mitral valve illustrates that it remains a complicated process, which is not well performed with any single parameter.

The purpose of this Atlas is to provide readers with a case-based overview of mitral valve structure and echocardiographic evaluation. The clinical scenarios illustrate how the various echocardiographic parameters provide incremental value in the accurate assessment of mitral valve dysfunction. Detailed, noninvasive assessment of the mitral valve remains integral for planning and performance of mitral valve surgery. Increasingly, echocardiographic assessment and real-time guidance are also required to facilitate percutaneous treatment options. We highlight important imaging aspects of these cases, along with salient teaching points and further recommended reading.

We have aimed to make this contemporary style of Atlas interactive and useful for individual learning as well as group teaching purposes, with the inclusion of numerous video files. Real-world examples of both common and rarer conditions are included to illustrate the breadth of mitral valve pathology and the challenges faced in acquiring optimal images. We hope that readers will enjoy exploring the mitral valve with us in this format.

Cleveland, OH, USA

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