

Preface

The objective of this 2nd edition is to serve as a free, practical educational resource for clinical magnetic resonance imaging. The bulk of the text is organized along anatomic lines and discusses disease entities commonly encountered in clinical practice. The focus is illustrating and describing the MR appearances of the most commonly imaged disease entities, considering briefly in each area important points relative to imaging techniques then discussing in depth the clinical MR interpretation. The breadth of clinical MRI is covered.

For each subtopic within an anatomic region, clinical cases serve as the backbone for discussion with the most common pathologies affecting each anatomic region being illustrated. The final sections discuss specifically contrast media and contrast-enhanced MRA, two topics worthy of further description due to their present clinical importance. When relevant to diagnosis or essential for understanding, MR physics is discussed; however, the reader is referred separately to Runge et al, *The Physics of Clinical MR Taught Through Images* for further elaboration. It is the goal that upon completing this text, the reader will have an appreciation for the complexity, utility, and versatility of MR in clinical imaging and will possess the knowledge essential for interpretation of basic clinical MR examinations.

Val M. Runge, MD

Note about the figures

The white lines between figure parts (for example, between Figures 1.1A,B and 1.1C,D) reflect the fact that images are taken from different patients (and may be different pathologies). If two figures are otherwise contiguous, they are from the same patient.