
Atlas of Human Body Ultrasound Scanning

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Editor

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Methods and Diagnostic
Applications

 Springer

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Preface

The rapid improvements in modern acoustics, electronics, and computer image processing techniques raise the possibility of improving and upgrading ultrasound instruments and provide vast prospects for their application. Ultrasound is now widely applied in various clinical medicine fields and, with its increasingly incomparable and irreplaceable advantages of low cost, convenience, rapidity, ease of use, and accuracy, etc., ultrasound has become an important medical imaging diagnostic method. Many medical colleges and universities have departments of medical imaging and encourage graduates to treat the ultrasonography profession as their priority in their future hospital careers. Nowadays, there are thousands of sonographers in various primary hospitals, and there are thousands of professionals with doctorates and master's degrees in ultrasonography who need to expand their knowledge of ultrasound diagnosis in many organs. This atlas has been compiled for the purpose of satisfying the needs of the increasing numbers of those professionals and the demand for knowledge on the part of clinicians to improve their diagnostic abilities. The atlas is edited by high-profile sonographers from various prime hospitals, aiming to provide basic, practical, and standardized knowledge on ultrasound diagnosis.

This atlas has been adopted as an international standard, combining different local ultrasound diagnostic practices. It offers strong guidance in a way that is simple, clear, comprehensive, and experiential. As far as possible, high-resolution ultrasound and anatomical images are included to cover standard sections of every visceral organ. The atlas also clearly describes the detection methods, structures of cross-sections, and measurement methods, and provides more overall value; moreover, it provides a brief description of the clinical application value of each illustration for readers to understand every standard ultrasound section, as well as its function. For every character, an English–Chinese conversion table is provided for readers to check, mark, and remember.

We sincerely invite any experts, professionals, and readers to give us good advice regarding any omissions. Although the atlas has been edited by high-profile sonographers, it may not cover everything, considering how widely ultrasound is now applied.

I am very appreciative for all of the contributors' input to enable this atlas to be completed. I thank Ms. W.Z. Chen, Ms. Z.L. Lu, Prof. Y.Q. Qian, and Prof. W.H. Jian. Furthermore, I thank Mr. Lei Yao, who participated in the

review process, and I also thank Ms. Jun Niu, who drew the schematic diagrams; their comments play an important role in showing the scientific value and authoritativeness of the illustrations. I am also deeply indebted to my family for all of their help.



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