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Use of echo-enhancement in the evaluation of peripheral circulation is discussed in chapters on carotid and peripheral arterial flow imaging and others that describe renal and hepatic vascular imaging. The newer applications of echo-enhancement

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outside the Imaging

cardiovascular system
are described in three
chapters devoted to

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The final chapters
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chapters on carotid and peripheral arterial flow imaging and others that describe renal and hepatic vascular imaging. The newer applications of echo-enhancement outside the cardiovascular system are described in three chapters devoted to the visualization of tumour vasculature.

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The opacification of
the left ventricle by

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echo cardiographic contrast agents (echo ventriculography) represents an alternative to cineventriculography, as determinations of left ventricular volume and ejection fraction are accurate and highly reproducible, when methods like color superposition and statist- ical

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imaging techniques
are used in order to
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endocardial border.

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function remain

important predictors
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Mitral Valve.

Challenges still

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valve is perhaps the

most... Quantification

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The opacification of
the left ventricle by
echo cardiographic
contrast agents (echo

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ventriculography)

represents an alternative to cineventriculography, as determinations of left ventricular volume and ejection fraction are accurate and highly reproducible, when methods like color superposition and statistical imaging techniques are used in order to

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improve the outlining of the cavity and endocardial border.

Detection of perfusion defects is possible

[40]. The

enhancement of

myocardial contrast

during the perfusion

phase after injection

into the left ventricle

or the aorta further

improves the endo

cardial border

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delineation. For

practical purposes,
the direct injection of
echocardiographic

contrast is inferior to
the indirect

opacification after per
ipheral venous

injection which can be
achieved with

sonicated albumin,
Albunex®, SH U 508

A, HOE 155. These
drugs are presently

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under clinical imaging

investigation. In up to

90% of the patients,

left heart opacification

is possible, yielding

30% intensity of the

right ventricle. When

these drugs are

available,

sophisticated

computed

methodologies have

to be included in the

echocardiographic

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In Echocardiography

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machines in order to improve the determination of the left ventricular volume and ejection fraction [44]. In the future, cineventriculography will be rarely performed as echoventriculograms already show left ventricular contraction. This will possibly result in

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reduced side effects
and costs.

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Contrast studies in
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Radiology 1969; 939.

2. Kronik G, Hutterer
B, Mossbacher H.

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mit Hilfe der Imaging

zweidimensionalen Kontrastechokardiographie. Z Kardiol

1981;70:138-45.

The first edition of this definitive text ran to 24 chapters. The second edition, reflecting the explosive growth of interest in echo-enhancement,

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contains 44. The first section deals with some of the most important emerging issues and technologies and covers harmonic imaging, the use of echo-enhancers to provide quantitative information, and the application of enhanced power Doppler to tissue

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imaging. The second,

on contrast

echocardiography,

explores the use of

echo-enhancement

during

transesophageal

imaging. One chapter

describes the use of

contrast-

enhancement

transesophageal

imaging to determine

coronary flow reserve

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and another gives a

detailed account of
the application of the
technique to the

evaluation of left
ventricular function.

Other authors

describe the

intraoperative use of
contrast

echocardiography and

discuss the potential

of myocardial contrast

echocardiography to

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replace thallium imaging

scintigraphy. Another chapter covers the emerging technique of transient response imaging and its role in the assessment of myocardial perfusion, and two chapters are devoted to three-dimensional contrast echocardiographic assessment of myocardial perfusion.

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Use of echo-imaging

enhancement in the
evaluation of

peripheral circulation

is discussed in

chapters on carotid

and peripheral arterial

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others that describe

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cardiovascular system are described in three chapters devoted to the visualization of tumour vasculature.

The final chapters look to the future and cover the imaging of intramyocardial vasculature, the development of site-specific agents and the emergence of the new acoustically

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active agents. **In Echo Imaging**

Using Contrast

Enhancement

This book will familiarize the reader with recent advances in echo imaging technology with special emphasis on echo enhancing agents. Several important strides have been made in this field during the past few years, especially

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in the contrast

enhancement of
conventional and
color Doppler images.

The book begins with
chapters on the
history of contrast
echocardiography, the
principles of contrast
echo and descriptions
of new contrast
agents capable of
transpulmonary
passage following

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intravenous injection.

Safety issues in
contrast

echocardiography are

also discussed. The

second section of the

book deals with

clinical uses of echo

contrast agents. Their

usefulness in the

identification of

cardiac structures and

assessment of

pathological lesions

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Using both Imaging

transthoracic and

transesophageal

echocardiography are

fully discussed.

Technical and

practical

considerations in the

use of various

contrast agents are

also described. The

use of contrast echo

in the identification of

cardiac sources of

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embolism as well as possible mechanisms and clinical significance of spontaneous contrast echoes are also covered. Six chapters fully discuss the basics of contrast enhancement of conventional and color Doppler images and its clinical utility in the noninvasive

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Assessment of

pulmonary artery
pressure, regurgitant
and stenotic lesions

and in the delineation
of coronary arteries.

Another chapter
describes the non-
cardiac applications of
the echo contrast
enhancement

technique. The final
section of the book
investigates the role

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of echo contrast
enhancement in
quantitative
cardiovascular
analysis.

This book provides a
comprehensive
overview of the
practical aspects of
contrast
echocardiography. It

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also covers all the

material in the
guidelines published
by the American

Society of

Echocardiography

(ASE) in 2018 and the

recommendations set

out by the European

Association of

Cardiovascular

Imaging (EACVI) in

2017. Contrast

echocardiography at

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present is only used in 5-10% of cases, but this is expected to grow rapidly following the recommendations of the ASE and EACVI. The chapters cover the approved indications and provide practical advice on how to administer the contrast agents and how to optimize the

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recordings as well as

how to deal with the
pitfalls. The reader

will find all the

information on how to

use contrast agents

for assessment of

shunts, LV volumes

and function as well

as myocardial

diseases and masses.

Detailed protocols are

included for stress

echocardiography and

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myocardial perfusion

imaging. Other topics

covered include the

use of contrast agents

for coronary

sonography and

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echocardiography.

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Compendium for

Clinical Practice

comprehensively

covers all aspects of

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the clinical use of

contrast

echocardiography and

has been written by

two cardiologists who

share their experience

from their high volume

echo laboratories.

One of the authors

has been a member

of both the ASE

guidelines and EACVI

recommendation

writing groups. It is

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therefore, a critical text for echocardiographers and sonographers who perform echocardiography.

Editor Hersh

Chandarana, MD and authors review

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Imaging in Clinical

Practice. Articles will

include: Current

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Current Status of

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Imaging; Non-

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decades, there have been numerous exciting developments in the surgical field of articular cartilage repair. Magnetic resonance imaging plays a critical role in pre-operative surgical planning, through its ability to identify the extent and severity of cartilage lesions. It also plays an

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important role in post-operative management, by allowing surgeons to noninvasively monitor the morphological status of repaired cartilage tissue. This book covers recent advances in ultra high field MRI and biochemical MRI techniques such as T2 mapping, delayed

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gadolinium enhanced MRI of cartilage (dGEMRIC), gagCEST and sodium MRI. It is written by a multidisciplinary team including basic scientists, radiologists, orthopaedic surgeons and biomedical engineers. The volume is an ideal reference guide for

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research scientists,

orthopedic surgeons

and biomedical

engineers etc.

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and Garry E Gold)T2

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will serve as a

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and articular cartilage
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and T2

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um MRI

In recent years,
echocardiography has
evolved from a
qualitative diagnostic

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tool into a complex and sophisticated technique that is able to provide accurate, quantitative information driving the management of most cardiac diseases.

Despite the availability, affordability and scientific value of advanced echocardiography

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techniques such as

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Speckle Tracking,

there has been a lack
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their use in real-life
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sonographers or other

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