

# Manual Muscle Testing Grades

Grades	Description
--------	-------------

0	No visible or palpable contraction.
---	-------------------------------------

1	Visible or palpable contraction without motion
---	--

2	Full range of motion, gravity eliminated
---	--

3	Full range of motion against gravity
---	--------------------------------------

4	Full range of motion against gravity, moderate resistance
---	---

5	Full range of motion against gravity, maximal resistance
---	--

# Manual Muscle Testing

**Dale Avers, Marybeth Brown**



## **Manual Musle Testing:**

The book delves into Manual Musle Testing. Manual Musle Testing is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Manual Musle Testing, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Manual Musle Testing
  - Chapter 2: Essential Elements of Manual Musle Testing
  - Chapter 3: Manual Musle Testing in Everyday Life
  - Chapter 4: Manual Musle Testing in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Manual Musle Testing. This chapter will explore what Manual Musle Testing is, why Manual Musle Testing is vital, and how to effectively learn about Manual Musle Testing.
3. In chapter 2, the author will delve into the foundational concepts of Manual Musle Testing. The second chapter will elucidate the essential principles that need to be understood to grasp Manual Musle Testing in its entirety.
4. In chapter 3, the author will examine the practical applications of Manual Musle Testing in daily life. The third chapter will showcase real-world examples of how Manual Musle Testing can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Manual Musle Testing in specific contexts. The fourth chapter will explore how Manual Musle Testing is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Manual Musle Testing. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Manual Musle Testing.

<https://staging.conocer.cide.edu/public/Resources/Documents/gunparade%20march%20manga%20vol%201%20mr.pdf>

## **Table of Contents Manual Musle Testing**

1. Understanding the eBook Manual Musle Testing

- The Rise of Digital Reading Manual Musle Testing
- Advantages of eBooks Over Traditional Books
- 2. Identifying Manual Musle Testing
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Manual Musle Testing
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Manual Musle Testing
  - Personalized Recommendations
  - Manual Musle Testing User Reviews and Ratings
  - Manual Musle Testing and Bestseller Lists
- 5. Accessing Manual Musle Testing Free and Paid eBooks
  - Manual Musle Testing Public Domain eBooks
  - Manual Musle Testing eBook Subscription Services
  - Manual Musle Testing Budget-Friendly Options
- 6. Navigating Manual Musle Testing eBook Formats
  - ePub, PDF, MOBI, and More
  - Manual Musle Testing Compatibility with Devices
  - Manual Musle Testing Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Manual Musle Testing
  - Highlighting and Note-Taking Manual Musle Testing
  - Interactive Elements Manual Musle Testing
- 8. Staying Engaged with Manual Musle Testing
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Manual Musle Testing

9. Balancing eBooks and Physical Books Manual Musle Testing
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Manual Musle Testing
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Manual Musle Testing
  - Setting Reading Goals Manual Musle Testing
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Manual Musle Testing
  - Fact-Checking eBook Content of Manual Musle Testing
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

### Manual Musle Testing Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In todays fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free Manual Musle Testing PDF books and manuals is the internets largest free library. Hosted online,

this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Manual Musle Testing PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Manual Musle Testing free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

### **FAQs About Manual Musle Testing Books**

1. Where can I buy Manual Musle Testing books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
3. How do I choose a Manual Musle Testing book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
4. How do I take care of Manual Musle Testing books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
7. What are Manual Musle Testing audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores. Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
10. Can I read Manual Musle Testing books for free? Public Domain Books: Many classic books are available for free as theyre in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.



**Find Manual Musle Testing :**

*gunparade march manga vol 1 mr*

**gun dog chronicles reflections on upland bird dogs and waterfowl retrievers**

guide to the history of pennsylvania reference guides to state history and research

guide to the principles and practices of astrology

gunhildes christmase.

**guidelines for successful living**

**guide to the central sector of hadrians wall**

guide to the study of religion

**gun in cheek a study of alternative crime fiction**

*guide to state residency requirements policy practice at us public colleges and universities*

guitar stories

**guitar facts**

*gun digest 2005 the worlds greatest gun*

**guide to using enzymatic therapy formulas a**

guns of the old west

**Manual Musle Testing :**

take the day off study guide receiving god s gift of rest - May 06 2022

web select the department you want to search in

take the day off receiving god s gift of rest paperback - Mar 04 2022

web during these 49 days the main focus will be on the first week 7 th day third week 21 st day fifth week 35 th day and the 49 th day additionally it is customary for family

*catholic daily mass daily tv mass november 7 2023 - Oct 31 2021*

web nov 18 2023 readings usccb org bible readings archbishop s appeal text to give 210 750 6712 keyword appeal give online at

take the day off receiving god s gift of rest goodreads - Sep 22 2023

web oct 29 2019 robert morris 4 43 291 ratings42 reviews rest your mind body and spirit and focus on god s principles for keeping the sabbath with this helpful guide from

**take the day off receiving god s gift of rest paperback** - Jun 07 2022

web in take the day off pastor morris explains why rest is central to your wellbeing how to do it and how helpful it can be now in this companion study guide you will be inspired to

**take the day off receiving god s gift of rest worldcat org** - Aug 09 2022

web take the day off receiving god s gift of rest paperback 12 nov 2020 by robert morris author 4 8 387 ratings see all formats and editions kindle edition 8 99 read

**take the day off receiving god s gift of rest google books** - Jun 19 2023

web 8 rows oct 29 2019 in take the day off pastor morris explains why rest is central to your wellbeing how to do

**a good night s sleep national institute on aging** - Aug 29 2021

*post funerals services singapore singapore funeral group* - Feb 03 2022

web 49 days ritual according to the teachings of earth store bodhisattva to create merits charitable deeds will be done and dedicated to the deceased in the next 49 days to

**take the day off receiving god s gift of rest** - Oct 23 2023

web oct 29 2019 view kindle edition rest your mind body and spirit and focus on god s principles for keeping the sabbath with this helpful guide from bestselling author robert morris a constant stream of busyness can slowly wear away at us over time physically

*take the day off receiving god s gift of rest kindle edition* - Apr 17 2023

web weary souls aren t fully available to others at home or at work and failing to relax can impact wise decision making let pastor morris help you establish a new rhythm in your

*take the day off receiving god s gift of rest* - Mar 16 2023

web rest your mind body and spirit and focus on god s principles for keeping the sabbath with this helpful guide from bestselling author robert morris take the day off receiving

*funeral rites and ritual in singapore funeral solutions* - Jan 02 2022

web 13 hours ago welcome to our covenant hour of prayer this is the official facebook of winners chapel intl visit our website

take the day off receiving god s gift of rest publishers weekly - Sep 10 2022

web take the day off receiving god s gift of rest author robert morris author summary a constant stream of busyness can slowly wear away at us over time physically

**saturday vigil mass 33rd sunday in ordinary time november 18** - Sep 29 2021

web insomnia is the most common sleep problem in adults age 60 and older people with this condition have trouble falling asleep and staying asleep insomnia can last for days

covenant hour of prayer 24 november 2023 - Dec 01 2021

web nov 7 2023 starting at 8 a m et on ewtn holy mass on tuesday november 7 2023 today s celebrant is father matthew mary readings rom 12 5 16b lk 14 15 24

*take the day off receiving god s gift of rest hardcover* - Oct 11 2022

web robert morris faithwords 22 240p isbn 978 1 5460 1016 6 pastor morris the blessed life explores the sabbath as an antidote for the weariness that comes from

**take the day off receiving god s gift of rest cbn com** - Feb 15 2023

web he serves as chancellor of the king s university and is the bestselling author of numerous books including the blessed life frequency beyond blessed and take the day off

**take the day off receiving god s gift of rest** - Jul 20 2023

web it s vital you must take the day off in take the day off pastor morris explains why rest is central to your wellbeing how to do it and how helpful it can be you will be inspired to

**take the day off receiving god s gift of rest paperback** - Jul 08 2022

web take the day off receiving god s gift of rest morris robert amazon sg books

*take the day off receiving god s gift of rest paperback* - Nov 12 2022

web take the day off receiving god s gift of rest by morris robert isbn 10 1546010165 isbn 13 9781546010166 faithwords 2019 hardcover

*take the day off receiving god s gift of rest amazon com* - Dec 13 2022

web oct 27 2020 it s vital you must take the day off in take the day off pastor morris explains

*take the day off receiving god s gift of rest cbn* - Aug 21 2023

web it s vital you must take the day off in take the day off pastor morris explains why rest is central to your wellbeing how to do it and how helpful it can be you will be

take the day off receiving god s gift of rest hardcover - Apr 05 2022

web take the day off receiving god s gift of rest morris robert amazon com au books

**take the day off receiving god s gift of rest google books** - May 18 2023

web oct 29 2019 take the day off receiving god s gift of rest kindle edition by morris robert lucado max download it once and read it on your kindle device pc phones or

**take the day off receiving god s gift of rest logos bible** - Jan 14 2023

web oct 29 2019 it s vital you must take the day off in take the day off pastor morris explains why rest is central to your wellbeing how to do it and how helpful it can be

**primary 6 reading comprehension pgms** - Apr 17 2022

web primary 6 english exercise primary 6 reading comprehension answer the questions in short answers air pollution steve was hit by a strange smell when he stepped out of the

**primary 6 english 89 plays quizizz** - Nov 24 2022

web p6 english practice primary 6 english practice materials and drills designed exclusively for the demanding elite curriculum to inspire students both in local

tsang mui millennium school 2019 2020 english worksheet - Mar 29 2023

web jul 3 2022 primary 6 english derick ndeh tambe member for 2 years 7 months age 10 11 level 6 language english en id 1921546 07 03 2022 country code th

**psle p6 english test papers the learning space sg** - Sep 03 2023

web grammar exercises for primary 6 students practice for mid term grammar exam 1 present simple tense affirmative flashcards for present

**primary 6 english exam test papers sg exam free test papers** - Oct 04 2023

web 2022 p6 english prelim acsj pdf 2022 p6 english prelim catholic high pdf 2022 p6 english prelim henry park pdf 2022 p6 english prelim mgs pdf 2022 p6 english

**class 6 english grammar notes comprehension and cloze** - Nov 12 2021

**primary six booklist for year 2023 ministry of education** - Jan 27 2023

web list of topics composition structure phrasal verbs separable transitive vocabulary cloze synthesis past participle verb active and passive voice grammar cloze

*primary 6 english resources thinking factory* - Apr 29 2023

web english language 1 p6 acsj el workbook available when sch reopen on 2023 in house nfy 2 9789812284457 stellar readers primary 6 child edu 2 40 3

**primary 6 english interactive worksheet live worksheets** - Dec 26 2022

web conversation exam practice grammar exam practice listening exams reading comprehension exams national word list for primary 6 practice for grammar exams

**primary 6 english exercises carousell** - Jan 15 2022

**primary 6 english practice materials and drills elite kids hk** - Jul 21 2022

web community english grammar for primary 6 examples from our community 10000 results for english grammar for primary 6 p65 unit 05 grammar 2

**primary 6 free online tests and games for learning english** - Sep 22 2022

web worksheets do you like learning about new things in english we have lots of activity sheets about many different topics download and print the worksheets to do puzzles

**tsang mui millennium school english worksheet stage 4** - Jun 19 2022

web exercise 1 grade 6 this is an exercise for students at beginning level id 2622570 english school subject english language grade level 6 age 9 11 main content

**worksheets learnenglish kids** - May 19 2022

web primary 6 english exercises s 5 s 2 00 within 2 working day s condition well used notes on condition books 1 revised primary english primary 6 6 5 10 general

**primary english exercises revision grammar and** - Aug 02 2023

web you will find on this page the list of all our articles to help primary 6 students in singapore with their english language we hope that you will enjoy our free english composition

*ixl learn 6th grade language arts* - Jul 01 2023

web 6 through the looking glass and what alice found a is the first book of the alice series b was written after carroll s death c was the most popular book in england in

primary 6 english practice singapore homework questions - Feb 25 2023

web primary 6 english shio moe 89 plays 20 questions copy edit show answers see preview multiple choice 5 seconds 1 pt she told him to stopping

**primary 6 english exercise orientation sutd edu** - Dec 14 2021

**english exercise book primary 6 ages** - Aug 22 2022

web once upon a time there was a young man called billy one day his mother asked him to find a job on the first day he worked for a shoemaker the shoemaker paid billy some

**exercise 1 grade 6 interactive worksheet** - Feb 13 2022

**english grammar for primary 6 teaching resources wordwall** - Mar 17 2022

web attempt these class 6 english answers available at esoma ke we offer concise educational resources for both students

and teachers our platform strives to do more

**primary 6 english syllabus primary p6 english topics** - Oct 24 2022

web 6 put the following sentences into a correct order 1 miss leung joined oxfam 2 miss leung met some volunteers from oxfam 3 miss leung started doing different fund

*grammar exercises for primary 6 students the english room* - May 31 2023

web these are problems that other students can't solve your future exam questions are probably inside so use these to practice 1 snap homework photo 2 upload and wait 3

practical perioperative transoesophageal echocardiography - Sep 05 2022

web oct 4 2018 practical perioperative transoesophageal echocardiography third edition is the definitive guide dedicated to helping clinicians use this essential imaging technique to manage perioperative

practice guidelines for perioperative transesophageal - May 13 2023

web methodology definition of perioperative transesophageal echocardiography for these guidelines perioperative transesophageal echocardiography tee refers to tee performed on surgical patients before during or immediately after surgery including the critical care setting

physical principles practical perioperative transoesophageal - Nov 07 2022

web sep 1 2018 the subject of this chapter is the physical principles underpinning the use of ultrasound in clinical echocardiography section 1 addresses the physics and design involved in forming ultrasound images section 2 covers the principles of doppler ultrasound section 3 covers the effect of ultrasound on tissue

*transesophageal echocardiography for perioperative* - Oct 06 2022

web feb 1 2021 abstract purpose of review perioperative transesophageal echocardiography tee is most often employed during cardiac surgery this review will summarize some of the recent findings relevant to tee

**practical perioperative transesophageal echocardiography** - Dec 28 2021

web a practical approach to transesophageal echocardiography third edition offers a concise and intensely illustrated guide to the current practice of perioperative tee anesthesiology and

**standard views practical perioperative transoesophageal** - Jan 09 2023

web sep 1 2018 abstract in chapter 4 the 28 standard 2d toe views as recommended by the american society of echocardiography ase and the society of cardiovascular anesthesiologists sca are described for each view a line drawing is provided indicating relevant cardiac structures

practice guidelines for perioperative transesophageal - Jun 14 2023

web practice guidelines for perioperative transesophageal echocardiography an updated report by the american society of

anesthesiologists and the society of cardiovascular anesthesiologists task force on transesophageal echocardiography author and

*practical perioperative transoesophageal echocardiography oxford* - Mar 11 2023

web nov 27 2018 practical perioperative transoesophageal echocardiography third edition is the definitive guide dedicated to helping clinicians use this essential imaging technique to manage perioperative cardiac patients

**index practical perioperative transoesophageal** - Feb 10 2023

web practical perioperative transoesophageal echocardiography 3 edn oxford clinical imaging guides oxford 2018 online edn oxford academic 1 sept 2018 doi org accessed 12 feb 2023

**an approach to standard perioperative transthoracic** - Aug 04 2022

web feb 1 2022 abstract the use of intraoperative transesophageal echocardiography tee has become the standard of care for most cardiac surgical procedures there are guidelines established for training practice and quality improvement in perioperative tee by the joint efforts of the american society of echocardiography and society of cardiovascular

**practical perioperative transoesophageal echocardiography** - Mar 31 2022

web oct 1 2003 practical perioperative transoesophageal echocardiography bennett m j 2003 10 01 00 00 00 d sidebotham a merry and m legget eds butterworth heinemann 2003 this autumn sees the first examination of the united kingdom accreditation in transoesophageal echocardiography toe this has been established

**practice guidelines for perioperative transesophageal** - Jul 03 2022

web practice guidelines for perioperative transesophageal echocardiography a report by the american society of anesthesiologists and the society of cardiovascular anesthesiologists task force on transesophageal echocardiography

*practice guidelines for perioperative transesophageal* - Apr 12 2023

web practice guidelines for perioperative transesophageal echocardiography an updated report by the american society of anesthesiologists and the society of cardiovascular anesthesiologists task force on transesophageal echocardiography

**perioperative transoesophageal echocardiography current status** - Dec 08 2022

web transoesophageal echocardiography toe is used in the perioperative arena to monitor patients during life threatening emergencies cardiac and high risk non cardiac surgeries it provides qualitative and quantitative information on valvular and ventricular functions and dynamic cardiac anatomy can be displayed with a physiological perspective this

*basic perioperative transesophageal echocardiography* - May 01 2022

web pte perioperative transesophageal pteexam perioperative tee examination pv pulmonic valve rca right coronary artery rv right ventricular rvot right ventricular outflow tract sca society of cardiovascular anesthesiologists tee transesophageal echocardiography tg transgastric tv tricuspid valve vae

**a practical approach to transesophageal echocardiography** - Feb 27 2022

web jan 22 2004 pdf on jan 22 2004 j swanevelder published a practical approach to transesophageal echocardiography find read and cite all the research you need on researchgate article pdf available

*perioperative transesophageal echocardiography for non cardiac* - Jun 02 2022

web conclusions perioperative tee is emerging as a preferred tool to manage hemodynamics in high risk procedures and in high risk patients undergoing non cardiac surgery a rescue tee examination protocol is a helpful approach for early identification of the etiology of hemodynamic instability

**practical perioperative transoesophageal echocardiography** - Aug 16 2023

web sep 1 2018 practical perioperative transoesophageal echocardiography 3 rd edition is a concise guide to the use of transoesophageal echocardiography toe for patients undergoing cardiac surgical and interventional cardiological procedures the text is aimed at anaesthetists and cardiologists particularly those in training and those preparing for

**download pdf practical perioperative transoesophageal echocardi** - Jan 29 2022

web a practical full color guide with videos practical perioperative transesophageal echocardiography 2nd edition by drs david sidebotham alan f merry malcolm e leggett and mark l edwards will help improve your diagnosis and monitoring of perioperative cardiac patients

**practical perioperative transoesophageal echocardiography** - Jul 15 2023

web cardiology evitalshop point of care ultrasound for emergency medicine and practical perioperative transoesophageal echocardiography practical perioperative transoesophageal echocardiography pdf practical perioperative transoesophageal libri ecocardiografia novità e ultime uscite transoesophageal echocardiography in