

Parameters before HTx	Mean $\pm$ SD			Range
	Bilateral (n = 23)	Bicaval (n = 101)	Total	Total
Donor age at HTx (y)	37 $\pm$ 14	45 $\pm$ 16	43 $\pm$ 16	14–72
Recipient age at HTx (y)	37 $\pm$ 19	49 $\pm$ 15	47 $\pm$ 17	17–69
Invasive PVR (Wood units), recipient	2.7 $\pm$ 1.2	3.0 $\pm$ 1.6	2.9 $\pm$ 1.5	0.3–10.8
Invasive PASP (mm Hg), recipient	46 $\pm$ 15	44 $\pm$ 14	44 $\pm$ 14	16–86
Index donor – recipient height (%)	98	102	101	NA
Index donor – recipient weight (%)	88	100	99	NA
Ischemic time (min)	172 $\pm$ 77	202 $\pm$ 48	201 $\pm$ 50	85–316
Parameters at examination				
Time since transplantation (y)	17 $\pm$ 5	4.1 $\pm$ 3.6	7 $\pm$ 6	1–25
Treatment-requiring (grade > 3A) rejection	8	31	39	0–4
Mean time between last rejection and inclusion (y)	17.1	6.7	9.6	1–25
Recipient BSA (m <sup>2</sup> )	1.9 $\pm$ 0.2	1.9 $\pm$ 0.3	1.9 $\pm$ 0.2	1.4–2.7
Recipient age (y)	55 $\pm$ 19	53 $\pm$ 15	54 $\pm$ 15	18–76
SBP (mm Hg)	136 $\pm$ 18	136 $\pm$ 17	136 $\pm$ 17	95–182
DBP (mm Hg)	76 $\pm$ 20	81 $\pm$ 9	80 $\pm$ 12	42–110
Heart rate (beats/min)	80 $\pm$ 12	85 $\pm$ 11	84 $\pm$ 11	60–120
QRS duration (msec)	133 $\pm$ 30	119 $\pm$ 26	122 $\pm$ 27	64–180
Invasive PVR (Wood units) (n = 39)	NA	1.4 $\pm$ 0.7	1.4 $\pm$ 0.7	0.4–2.9
Invasive PASP (mm Hg) (n = 39)	NA	27.5 $\pm$ 11.2	27.5 $\pm$ 11.2	7–64
Invasive MPAP (mm Hg) (n = 39)	NA	18 $\pm$ 7.7	18 $\pm$ 7.7	8–43
Comorbidities				
Diabetes	5	36	41	NA
Hypertension	13	37	50	NA

DBP, Diastolic blood pressure; MPAP, mean pulmonary artery pressure; NA, not applicable; PVR, pulmonary vascular resistance; SBP, systolic blood pressure.

The total number of subjects was 124.

# Normal Reference Ranges For Echocardiography

**Clifford Lane**



## **Normal Reference Ranges For Echocardiography:**

**ASE's Comprehensive Echocardiography E-Book** American Society of Echocardiography, 2021-02-18 Edited by a team of leading echocardiography experts and endorsed by the American Society of Echocardiography ASE's Comprehensive Echocardiography 3rd Edition covers the full spectrum of sonography of the heart in one succinct authoritative resource This highly regarded text provides must know information on everything from basic foundations and principles to clinical application written and edited by ASE members with expertise in each specific area Case studies numerous tables high quality images and videos highlight the latest uses of echocardiography including the most recent 2D and 3D advances Discusses all the latest methods to assess cardiac chamber size and function valvular stenosis regurgitation cardiomyopathies coronary artery disease complications of myocardial infarction and other cardiac pathologies Covers recent advances in critical care echocardiography cardio oncology structural heart disease interventional intraoperative echocardiography strain imaging of left and right heart chambers multimodality imaging in systemic diseases and novel 3D techniques Contains more than 1 200 updated images echocardiograms including 2D 3D and Doppler diagrams anatomic drawings algorithmic drawings and more Provides access to nearly 600 full motion echocardiography video clips Keeps you up to date with the latest echocardiography practice guidelines and advanced technologies Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

**Textbook of Three-Dimensional Echocardiography** Luigi P. Badano, Roberto M. Lang, Denisa Muraru, 2019-08-14 This thoroughly revised textbook provides a practically applicable guide to three dimensional echocardiography 3DE Background is provided on the evolution of the technology and physics that support the implementation of both transthoracic and transesophageal approaches to 3DE The incremental value of 3DE to assess cardiac chambers is also described Moreover a range of cardiac valvular diseases including the mitral aortic and tricuspid valve have been portrayed and illustrated in depth These include congenital abnormalities regurgitation and stenosis Emphasis is also placed on technical aspects of the technique and where it can provide added value including post surgery assessments and evaluation of cardiac masses Textbook of Three Dimensional Echocardiography enables readers to develop a deep understanding of how to use this imaging modality It provides a valuable resource for the echocardiography trainee looking to develop their knowledge and for the experienced practitioner seeking a comprehensive up to date reference

**Textbook of Echocardiography** V Amuthan, Satish K Parashar, 2022-02-27 An echocardiogram uses sound waves to produce images of the heart This common test allows a doctor to see the heart beating and pumping blood and subsequently identify heart disease This book is a complete guide to performing and interpreting an echocardiogram 56 chapters describe both basic and advanced techniques for diagnosing different heart disorders The second edition has been fully revised to provide clinicians with the latest developments and techniques in the field Seven new chapters have been added to this

edition covering echocardiography and artificial intelligence hypertension arrhythmogenic right ventricular dysplasia Kawasaki disease cardio oncology diabetes mellitus and foetal echo Dedicated chapters emphasise the role of echo in surgical procedures and explore its use with electrophysiology in patients with pacemakers and those undergoing cardiac resynchronisation therapy The book is highly illustrated with many 2D and 3D echo images helping explain the descriptive text for each topic The previous edition 9789352700929 published in 2017

**Textbook of Clinical Echocardiography E-Book** Catherine M. Otto, 2023-08-26 Today's echocardiography continues to be a widely available minimal risk procedure with the potential to yield a vast amount of detailed precise anatomic and physiologic information Dr Catherine Otto's Textbook of Clinical Echocardiography 7th Edition clearly outlines how to master the core principles of echocardiographic imaging in order to make an initial diagnosis and integrate this data in clinical decision making for patients with a wide range of cardiovascular diseases Ideal for cardiology fellows medicine residents and cardiac sonography students this bestselling text teaches all the essential elements of ultrasound physics tomographic and 3D anatomy image acquisition advanced imaging modalities and application in specific disease categories all with a practical problem based approach Concentrates on the foundational concepts you need to know to perform and interpret echocardiographic studies and to pass your board exams Incorporates new clinical knowledge new guidelines and recent innovations in echocardiographic imaging including advances in handheld devices specialized echo applications and technical aspects of image collection Covers all advanced echo techniques including contrast echo 3D echo and myocardial mechanics as well as intraoperative and intra procedural transesophageal echocardiography TEE Provides an updated understanding of the clinical applications of specific echocardiographic findings and discusses what alternative diagnostic approaches to initiate when echocardiography does not provide a definitive answer Offers a thorough must know explanation of the physics behind echocardiography and its applications in the clinical setting Echo Math boxes in each chapter for quick review and greater comprehension updated evidence tables validating echo parameters and an Echo Exam summary at the end of each chapter Matches full color anatomic drawings of heart structures with the 2D and 3D echocardiographic views and includes dozens of new illustrations throughout the text Pairs state of the art echo images with more than 360 videos that illustrate the full range of cardiac disease diagnosed with this powerful imaging approach

*Practice of Clinical Echocardiography E-Book* Catherine M. Otto, 2016-11-09 The new edition of Practice of Clinical Echocardiography provides expert guidance on interpreting echocardiographic images and Doppler flow data Designed for those already equipped with a mastery of basic principles this definitive reference shows you how to apply these findings to your daily clinical decision making Each chapter focuses on a specific disease process with technical details of qualitative and quantitative interpretation of echocardiographic images and Doppler flow data Disease oriented chapters emphasize the role of echocardiography in clinical decision making and prediction of clinical outcomes New chapters cover emerging technologies including transcatheter procedures for structural

heart disease Numerous images illustrate findings while diagrams explain pathophysiology and flow charts guide clinical practice Each chapter includes a summary box with a practical approach to echo data acquisition measurement and interpretation *Small Animal Diagnostic Ultrasound E-Book* John S. Mattoon,Rance K. Sellon,Clifford Rudd Berry,2020-08-28 Every clinician that has an interest in veterinary diagnostic imaging should have this reference Small Animal Diagnostic Ultrasound 4th Edition provides in depth coverage of the latest techniques applications and developments in veterinary ultrasonography It shows how ultrasonography can be an indispensable part of your diagnostic workup for everything from cardiac and hepatic disease to detached retinas and intestinal masses All new content on internal medicine is integrated throughout the text addressing disease processes and pathologies their evaluation and treatment Written by expert educators John S Mattoon Rance K Sellon and Clifford R Berry this reference includes access to an Expert Consult website with more than 100 video clips and a fully searchable version of the entire text Logical organization makes reference quick and easy with chapters organized by body system and arranged in a head to tail order Coverage of Doppler imaging principles and applications includes non cardiac organs and abdominal vasculature Photographs of gross anatomic and pathological specimens accompany ultrasound images showing the tissues under study and facilitating a complete interpretation of ultrasound images More than 100 video clips demonstrate normal and abnormal conditions as they appear in ultrasound scans including conditions ranging from esophageal abscess to splenic hyperplasia More than 2 000 full color images include the most current ultrasound technology NEW Updated content on diagnostic ultrasound ensures that you are informed about the latest developments and prepared to meet the challenges of the clinical environment NEW Coverage of internal medicine includes basic knowledge about a disease process the value of various blood tests in evaluating the disease as well as treatment strategies NEW editors Rance K Sellon and Clifford R Berry bring a fresh focus and perspective to this classic text NEW Expert Consult website includes a fully searchable eBook version of the text along with video clips demonstrating normal and abnormal conditions as they appear in ultrasound scans NEW New and updated figures throughout the book demonstrate current high quality images from state of the art equipment NEW contributing authors add new chapters ensuring that this book contains current authoritative information on the latest ultrasound techniques

*Pediatric and Congenital Cardiac Care* Paul R. Barach,Jeffery P. Jacobs,Steven E. Lipshultz,Peter C. Laussen,2014-12-04 There are growing questions regarding the safety quality risk management and costs of PCC teams their training and preparedness and their implications on the welfare of patients and families This innovative book authored by an international authorship will highlight the best practices in improving survival while paving a roadmap for the expected changes in the next 10 years as healthcare undergoes major transformation and reform An invited group of experts in the field will participate in this project to provide the timeliest and informative approaches to how to deal with this global health challenge The book will be indispensable to all who treat pediatric cardiac disease and will provide important information about

managing the risk of patients with pediatric and congenital cardiac disease in the three domains of the analysis of outcomes the improvement of quality and the safety of patients

**Practical Echocardiography for Cardiac Sonographers** Daniel M. Shindler, 2020-07-03 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product A practical visual authoritative quick reference guide to mastering echocardiography The most efficient and thorough way to learn echocardiography is visually By seeing and comparing different variations of important echo findings you shorten the learning process and build retention at the same time Covering the essential techniques standards and cardiac disorders you need to know Practical Echocardiography for Cardiac Sonographers is an innovative guide that takes you step by step through the scanning process in different disorders helps you accurately interpret and clinically apply echocardiographic information describes the physics of ultrasound in easy to understand language and covers common and rare relevant cardiac conditions Formatted in a way that makes finding the right answers quick and easy Echocardiography for Cardiac Sonographers delivers comprehensive fully rounded interactive education that will get you up to speed on this critically important discipline in no time This comprehensive guide covers Heart Failure Coronary Artery Disease Aortic Valve Disease Mitral valve Disease Prosthetic Valves Hypertrophic Cardiomyopathy Pericardial Disease Endocarditis Cardiac Tumors and Masses Pulmonary Disorders Tricuspid and Pulmonic Valves Aorta and Congenital Heart Disorders Stroke

**Journal of the American Veterinary Medical Association** American Veterinary Medical Association, 2017

**Journal of the American Society of Echocardiography**, 1993-07

**Textbook of Clinical Echocardiography** Catherine M. Otto, Alan S. Pearlman, 1995 In the 2nd edition all chapters have been revised to reflect advances in the field This textbook is organised by disease category emphasising a clinical approach to echocardiographic diagnosis

*Clinical Manual and Review of Transesophageal Echocardiography, Second Edition* Joseph Mathew, Madhav Swaminathan, Chakib Ayoub, 2010-03-02 A complete full color clinical manual and review of TEE Clinical Manual and Review of Transesophageal Echocardiography offers concise yet comprehensive coverage of the key principles concepts and developing practice of TEE Each chapter provides a summary of the physiology pathophysiology tomographic views and the required two dimensional M Mode and Doppler echocardiography data for a number of common disease states Important clinical information is integrated with the principles of cardiovascular physiology Features Addresses all the important clinical and technical issues and major exam topics Enhanced anatomic representation of ultrasound imaging planes Increased number of chapter ending review questions An effective blend of narrative text and bulleted text charts and graphs speeds access to key clinical information Important new chapters on 3D TEE epicardial and epiaortic ultrasonography TEE in the emergency room training and certification in perioperative TEE and the TEE board exam Valuable appendices detailing normal chamber dimensions and volumes diastolic function quantification of stenotic and regurgitant valves hemodynamic calculations and more Contributions from leading anesthesiologists

cardiologists and cardiothoracic surgeons Perfect for review Condensed Table of Contents Basic Transesophageal Echocardiography Advanced Transesophageal Echocardiography Clinical Perioperative Echocardiography TEE in Nonoperative Settings Special Topics Appendices **Clinical Cardiovascular Imaging** Martin St. John Sutton, John D. Rutherford, 2004 This new text provides a problem oriented approach to the use of diagnostic imaging for the clinical cardiologist Written and edited by the experts in the field it concentrates on the utilization of modalities in the investigation of cardiovascular disease with an emphasis on optimal selection of imaging techniques for accurate and expedient diagnosis CLINICAL CARDIOVASCULAR IMAGING is the easy to use everyday guide with algorithms diagrams and charts to help in the decision making process *American Journal of Veterinary Research* ,2016 Volumes for 1956 include selected papers from the proceedings of the American Veterinary Medical Association **Clinical Manual and Review of**

**Transesophageal Echocardiography, 3/e** Joseph Mathew, Madhav Swaminathan, Chakib Ayoub, 2019-01-09 The acclaimed full color clinical manual and review of TEE completely updated to reflect the field's latest breakthroughs and developments Doody's Core Titles for 2021 Clinical Manual and Review of Transesophageal Echocardiography Third Edition is written to be the field's go to resource and the standard reference textbook on the topic It offers concise yet comprehensive coverage of the key principles concepts and developing practice of transesophageal echocardiography Completely updated reorganized and expanded this Third Edition features a sectional format each containing chapters that were reviewed and revised to provide a comprehensive discussion of physiology pathophysiology and echocardiographic approach for normal and common disease states Where possible important clinical information has been aligned with the principles of cardiovascular physiology and echocardiographic techniques Narrative text charts videos and graphs have been effectively integrated to provide rapid access to key clinical information for the purpose of improving clinical management Features Addresses all the important clinical and technical issues and major exam topics Valuable appendices detailing normal chamber dimensions and volumes wall motion and coronary perfusion diastolic function native valve areas velocities and gradients and measurements and calculations Contributions from leading anesthesiologists cardiologists and cardiothoracic surgeons A complete practice exam and chapter ending multiple choice questions make this the perfect review for board examinations in both basic and advanced perioperative echocardiography **Standards of Care** ,2005 *The Canadian Journal of Cardiology* ,2005

**Harrison's Principles of Internal Medicine 19/E (Vol.1 & Vol.2) (ebook)** Dennis L. Kasper, Anthony S. Fauci, Stephen L. Hauser, Dan L. Longo, J. Larry Jameson, Joseph Loscalzo, 2015-04-17 The landmark guide to internal medicine updated and streamlined for today's students and clinicians The only place you can get ALL the great content found in the two print volumes AND the acclaimed DVD in one convenient resource Through six decades no resource has matched the authority esteemed scholarship and scientific rigor of Harrison's Principles of Internal Medicine Capturing the countless advances and developments across the full span of medicine the new 19th edition of Harrison's provides a complete update

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The Practice of Clinical Echocardiography Catherine M. Otto,1997 This review of the impact of echocardiographic data on patient management and clinical outcome emphasizes data acquisition analysis potential technical limitations and the results of studies It looks at the role of the echocardiographer as a clinician not just as imaging specialist

Medicina interna en pequeños animales R. Nelson,C.G. Couto,2010-04-25 Cuarta edici n ampliada y a todo color de este

texto de enfoque práctico que aborda el estudio de todas las patologías del perro y el gato que requieren tratamiento médico. La obra se organiza por alteraciones de órganos y sistemas corporales y proporciona información de gran interés sobre etiología, sintomatología, diagnóstico y tratamiento de las enfermedades abordadas. Se trata de una obra imprescindible para los veterinarios dedicados a la práctica clínica ya que su consulta permite al clínico una rápida comprensión de las principales enfermedades y establecer protocolos de actuación de fácil aplicación en su práctica diaria. Asimismo resulta de gran interés para los estudiantes de los últimos cursos, en especial para la preparación y resolución de casos clínicos planteados en las asignaturas clínicas. Utiliza el método del aprendizaje que comienza con la discusión de los síntomas, recomendaciones diagnósticas y técnicas y concluye con consideraciones terapéuticas. Los autores son especialistas de reconocido prestigio en sus respectivas áreas. Se utilizan referencias cruzadas para impedir la redundancia y hacer que la información sea más accesible. Además incluye recuadros de tratamiento que proporcionan recomendaciones sobre las dosis e indicaciones y numerosos algoritmos. Cuarta edición ampliada y a todo color de este texto de enfoque práctico que aborda el estudio de todas las patologías del perro y el gato que requieren tratamiento médico. Se trata de una obra imprescindible para los veterinarios dedicados a la práctica clínica y resulta de gran interés para los estudiantes de los últimos cursos, en especial para la preparación y resolución de casos clínicos planteados en las asignaturas clínicas. Utiliza el método del aprendizaje que comienza con la discusión de los síntomas, recomendaciones diagnósticas y técnicas y concluye con consideraciones terapéuticas.

This book delves into Normal Reference Ranges For Echocardiography. Normal Reference Ranges For Echocardiography is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Normal Reference Ranges For Echocardiography, encompassing both the fundamentals and more intricate discussions.

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