

ATLAS OF CARDIOVASCULAR COMPUTED TOMOGRAPHY

CARDIOVASCULAR COMPUTED TOMOGRAPHY COMPUTED TOMOGRAPHY OF THE CARDIOVASCULAR SYSTEM ATLAS OF CARDIOVASCULAR COMPUTED TOMOGRAPHY ATLAS OF CARDIOVASCULAR COMPUTED TOMOGRAPHY PRINCIPLES OF CARDIAC AND VASCULAR COMPUTED TOMOGRAPHY CARDIAC CT MADE EASY HANDBOOK OF CARDIOVASCULAR CT CARDIAC COMPUTED TOMOGRAPHY -E-BOOK CARDIAC CT MADE EASY CT OF THE HEART CARDIAC CT IMAGING ADVANCES IN CARDIAC COMPUTED TOMOGRAPHY CARDIAC IMAGING INTEGRATION: PRACTICAL INSIGHTS CARDIOLOGY SECRETS - E-BOOK ATLAS OF CARDIOVASCULAR COMPUTED TOMOGRAPHY CARDIAC CT IMAGING THE ESSENTIALS OF COMPUTED TOMOGRAPHY AND ITS APPLICATION IN CARDIAC IMAGING ABSTRACTS OF THE 2018 WINTER MEETING OF THE SOCIETY OF CARDIOVASCULAR COMPUTED TOMOGRAPHY CARDIAC CT MADE EASY: AN INTRODUCTION TO CARDIOVASCULAR MULTIDETECTOR COMPUTED TOMOGRAPHY, SECOND EDITION CARDIAC SURGERY IN THE ADULT 5/E Ed NICOL THOMAS C. GERBER ALLEN J. TAYLOR MATTHEW J. BUDOFF STUART J. HUTCHISON PAUL SCHOENHAGEN MATTHEW J. BUDOFF RON BLANKSTEIN PAUL SCHOENHAGEN, MD, FAHA U. JOSEPH SCHOEPF MATTHEW J. BUDOFF MARIO J. GARCIA TAHA OTHMANE GLENN N. LEVINE MATTHEW J. BUDOFF MATTHEW J. BUDOFF CHRISTIAN BRUGGER MD. SCHOENHAGEN LAWRENCE H. COHN

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CARDIOVASCULAR COMPUTED TOMOGRAPHY CT HAS RAPIDLY BECOME AN IMPORTANT IMAGING TOOL IN CARDIOLOGY AND IS NOW A COMPULSORY COMPONENT OF THE CORE CURRICULUM FOR CARDIOLOGY IN UK AND EUROPE IT IS A COMPLEX IMAGING MODALITY HOWEVER WITH MANY ASPECTS TO MASTER CT THEORY IMAGE ACQUISITION AND ANALYSIS INTERPRETATION AND REPORTING THIS PRACTICAL HANDBOOK IS THEREFORE ESSENTIAL READING FOR BOTH TRAINING AND REFERENCE FOR ALL CARDIOVASCULAR CT USERS INCLUDING CARDIOLOGISTS RADIOLOGISTS AND RADIOGRAPHERS PROVIDING PRACTICAL GUIDANCE ON PERFORMING ANALYSING AND INTERPRETING CARDIOVASCULAR CT SCANS IN AN ACCESSIBLE FORMAT

COMPUTED TOMOGRAPHY OF THE HEART AND CARDIOVASCULAR SYSTEM CONTINUES TO SHOW AN IMPRESSIVE AND TREMENDOUSLY SUCCESSFUL DEVELOPMENT TECHNICAL IMPROVEMENTS TRANSLATE INTO NEW APPLICATIONS AND ENHANCED DIAGNOSTIC ACCURACY AND THE NEW DIAGNOSTIC OPPORTUNITIES MAY POTENTIALLY BE BENEFICIAL FOR MANY INDIVIDUALS WITH KNOWN OR SUSPECTED CARDIOVASCULAR DISEASE IN ORDER TO ASSURE THAT THE POTENTIAL OF CARDIOVASCULAR CT WILL OPTIMALLY BE USED FOR PATIENT CARE A CONTINUED STRONG JOINT EFFORT CONCERNING EDUCATION AND TRAINING FURTHER RESEARCH AND ADVOCACY WILL BE NECESSARY THE COMBINED KNOWLEDGE EXPERIENCE AND INPUT OF ALL CLINICIANS AND RESEARCHERS IN THE FIELD WILL BEST SERVE THAT PURPOSE CARDIOVASCULAR COMPUTED TOMOGRAPHY IS THE FIRST TEXTBOOK TO COVER THE HEART CARDIOVASCULAR AND PERIPHERAL VASCULAR SYSTEMS AND WILL PROVIDE THE READER WITH THE NECESSARY BACKGROUND INFORMATION TO PERFORM CARDIAC CT ON SYMPTOMATIC PATIENTS AND ASYMPTOMATIC INDIVIDUALS FOR THE ACCURATE ASSESSMENT OF UNDERLYING DISEASE

ATLAS OF CARDIAC CT BY ALLEN J TAYLOR MD IS A PRACTICAL CARDIAC IMAGING REFERENCE THAT PROVIDES COMPREHENSIVE COVERAGE OF ALL ASPECTS OF THIS MODALITY INSIDE YOU'LL FIND USER FRIENDLY CASE BASED STRUCTURED SECTIONS THAT OFFER A BRIEF CLINICAL INTRODUCTION MULTIPLE CT IMAGES HIGHLIGHTS OF STRENGTHS AND PITFALLS BRIEF COMMENTARY AND FURTHER SUGGESTED READINGS EQUIPPING YOU WITH EVERYTHING YOU NEED TO KNOW TO OBTAIN THE BEST IMAGING RESULTS EXPERT CONSULT FUNCTIONALITY FURTHER ENHANCES YOUR REFERENCE POWER WITH CONVENIENT ONLINE ACCESS TO THE COMPLETE CONTENTS OF THE BOOK FULLY SEARCHABLE ALONG WITH ADDITIONAL IMAGES AND VIDEOS FEATURES A CLINICALLY ORIENTED CASE BASED AND EVIDENCE BASED APPROACH FOR COVERAGE THAT YOU CAN READILY APPLY IN YOUR DAILY PRACTICE OFFERS THE GUIDANCE OF TODAY'S EXPERTS IN CARDIAC CT ALONG WITH INPUT OF THE EDITORIAL TEAM BEHIND BRAUNWALD'S HEART DISEASE TO ENSURE THAT YOU HAVE ONLY THE BEST KNOWLEDGE AT YOUR FINGERTIPS INCLUDES A FINAL CHAPTER WHICH MODALITY FOR WHICH DISEASE TO HELP YOU DETERMINE THE BEST IMAGING MODALITY TO USE FOR A SPECIFIC PROBLEM PRESENTS ABUNDANT HIGH QUALITY IMAGES THAT CLEARLY DEPICT THE USE OF CARDIAC CT AND VISUALLY REINFORCE THE TEXT PROVIDES COMPLETE GUIDANCE ON OBTAINING THE BEST IMAGE QUALITY POSSIBLE AND THE AVOIDANCE OF ARTIFACTS

USES A CONSISTENT CHAPTER FORMAT THAT MAKES IT EASY TO FIND THE INFORMATION YOU NEED OFFERS ACCESS TO THE COMPLETE CONTENTS ONLINE FULLY SEARCHABLE ALONG WITH ADDITIONAL IMAGES AND VIDEOS AT EXPERTCONSULT COM YOUR PURCHASE ENTITLES YOU TO ACCESS THE WEB SITE UNTIL THE NEXT EDITION IS PUBLISHED OR UNTIL THE CURRENT EDITION IS NO LONGER OFFERED FOR SALE BY ELSEVIER WHICHEVER OCCURS FIRST ELSEVIER RESERVES THE RIGHT TO OFFER A SUITABLE REPLACEMENT PRODUCT SUCH AS A DOWNLOADABLE OR CD ROM BASED ELECTRONIC VERSION SHOULD ACCESS TO THE WEB SITE BE DISCONTINUED

THIS ATLAS IS A COMPREHENSIVE VISUAL REFERENCE FOR THE USE OF CARDIOVASCULAR COMPUTED TOMOGRAPHY CT CONTAINING PHOTOMICROGRAPHS ANATOMIC ILLUSTRATIONS TABLES AND CHARTS PAIRED WITH EXTENSIVE LEGENDS AND EXPLANATIONS THAT ARE SUPPLEMENTED BY EXTENSIVE RESEARCH PEER REVIEWED ARTICLES AND TEXTBOOKS IN ADDITION TO PROVIDING HISTORICAL PERSPECTIVE AND CURRENT DIRECTION FOR CT THIS NEW EDITION OF ATLAS OF CARDIOVASCULAR COMPUTED TOMOGRAPHY 2E FOCUSES ON RESEARCH INVOLVING CORONARY ARTERY DISEASES AND ANOMALIES CONGESTIVE HEART FAILURE ATHEROSCLEROTIC PLAQUES AND ASYMPTOMATIC DISEASE AS WELL AS IMAGING TECHNIQUES INCLUDING PREPARATION ACQUISITION AND PROCESSING INVOLVING THE GREAT VESSELS AND CAROTIDS THE PERIPHERAL VASCULATURE AND CORONARY AND PULMONARY VEINS THE INCREASING ROLE OF CT IN THE EMERGENCY ROOM AND IN PRIVATE CARDIOLOGY PRACTICE IS ALSO REVIEWED THOROUGHLY MAKING THIS AN ESSENTIAL READ FOR ALL INVOLVED IN CARDIAC IMAGING CARDIOLOGY AND EMERGENCY MEDICINE

PRINCIPLES OF CARDIAC AND VASCULAR COMPUTED TOMOGRAPHY HAS EVERYTHING YOU NEED TO SUCCESSFULLY OBTAIN AND INTERPRET CT AND CTA IMAGES STUART J HUTCHISON A PREMIER CARDIAC IMAGING SPECIALIST EXPLAINS THE DOS AND DON TS OF CCT SO YOU GET THE BEST IMAGES AND AVOID ARTIFACTS GET ONLY THE COVERAGE FROM EVIDENCE BASED CTA TO NONCORONARY LESIONS YOU NEED WITH CLINICALLY ORIENTED PRACTICAL INFORMATION PRESENTED IN A CONSISTENT FORMAT THAT MAKES FINDING EVERYTHING QUICK AND EASY HIGH QUALITY IMAGES AND ACCESS TO THE TEXT AND MORE AT EXPERT CONSULT MAKES THIS THE ONE CARDIOVASCULAR COMPUTED TOMOGRAPHY RESOURCE THAT HAS IT ALL ACCESS VIDEOS OF CTA PROCEDURES AT EXPERT CONSULT GET ONLY THE COVERAGE THAT YOU NEED FROM EVIDENCE BASED CTA TO DETERMINATION OF CORONARY CALCIUM TO NONCORONARY LESIONS FROM FOCUSED CLINICALLY ORIENTED AND PRACTICAL INFORMATION OBTAIN THE BEST IMAGE QUALITY AND AVOID ARTIFACTS THROUGH INSTRUCTIONS ON HOW TO AND HOW NOT TO PERFORM CARDIOVASCULAR COMPUTED TOMOGRAPHY GAIN A CLEAR VISUAL UNDERSTANDING THROUGH HIGH QUALITY IMAGES MANY IN COLOR THAT REINFORCE THE QUALITY OF INFORMATION IN THE TEXT MASTER PROBE SETTINGS AND MEASUREMENTS USING NUMEROUS TABLES WITH USEFUL VALUES AND SETTINGS FIND INFORMATION EASILY THANKS TO A CONSISTENT FORMAT

CARDIOVASCULAR COMPUTED TOMOGRAPHY HAS A PROMINENT ROLE IN THE DIAGNOSIS AND MANAGEMENT ACROSS A WIDE SPECTRUM OF CLINICAL INDICATIONS THEREFORE KNOWLEDGE ABOUT

THIS EXCITING TECHNOLOGY IS CRITICAL FOR IMAGING SPECIALISTS AND CLINICIANS ALIKE COMPLEMENTARY TO MORE DETAILED TEXTBOOKS THIS BOOK IS GEARED TOWARDS READERS WHO ARE LEARNING ABOUT CARDIOVASCULAR CT REGARDLESS OF THEIR CLINICAL SPECIALTY IT IS INTENDED TO BE A SHORT PRACTICAL INTRODUCTION WITH A FOCUS ON VISUAL MATERIAL WITH THIS IN MIND THE THIRD EDITION HAS BEEN CAREFULLY REVISED AND UPDATED TO INCLUDE RECENT DEVELOPMENTS IN CT SCANNER TECHNOLOGY AND CLINICAL INDICATIONS THE CURRENT THIRD EDITION OF THE BOOK COVERS THE ENTIRE SPECTRUM OF CARDIOVASCULAR COMPUTED TOMOGRAPHY BUT THE TEXT AND NUMBER OF IMAGES HAVE BEEN REDUCED TO FOCUS ON THE ESSENTIAL MATERIAL CARDIAC CT MADE EASY PROVIDES A RAPID INTRODUCTION AND INITIAL UNDERSTANDING ABOUT CARDIOVASCULAR CT KEY FEATURES COVERS THE ENTIRE SPECTRUM OF CARDIOVASCULAR COMPUTED TOMOGRAPHY THIS THIRD EDITION PROVIDES A CONCISE AND PRACTICAL TEXT ADDRESSES THE NEEDS OF RADIOLOGISTS AND CARDIOLOGISTS WHO PRACTICE CARDIOVASCULAR IMAGING PROVIDING TECHNICAL AND PRACTICAL ASPECTS OF MDCT FOR CARDIOVASCULAR APPLICATIONS ESPECIALLY FROM THE PERSPECTIVE OF CLINICIANS CONTAINS NEW MATERIAL COVERING RECENT DEVELOPMENTS IN CT SCANNER TECHNOLOGY E G PHOTON COUNTING DETECTOR TECHNOLOGY AND CLINICAL INDICATIONS E G IMAGING IN THE CONTEXT OF STRUCTURAL AND VALVULAR INTERVENTIONAL PROCEDURES

HANDBOOK OF CARDIAC CT IS A PRIMER FOR THE PRACTICAL PERFORMANCE AND INTERPRETATION OF CARDIOVASCULAR COMPUTED TOMOGRAPHY THIS MANUAL SERVES AS A COMPANION TO THE TEXTBOOK CARDIAC CT IMAGING DIAGNOSIS OF CARDIOVASCULAR DISEASE AND PROVIDES ESSENTIAL CONCISE AND PRACTICAL TEXT SUMMARY OF EACH TOPIC WITH ADDITIONAL TABLES ALGORITHMS PROTOCOLS AND KEY IMAGES FOR ORIENTATION TO AND FAMILIARIZATION WITH IMPORTANT DISEASE PROCESSES THIS MANUAL TARGETS A READING AUDIENCE WHO ARE IN THE TRAINING PHASE OF PERFORMANCE AND INTERPRETATION OF CARDIOVASCULAR CT AND IS DESIGNED AS AN EASILY ACCESSIBLE POCKET REFERENCE

PART OF THE RENOWNED BRAUNWALD FAMILY OF REFERENCES CARDIAC COMPUTED TOMOGRAPHY A COMPANION TO BRAUNWALD S HEART DISEASE PROVIDES TODAY S CLINICIANS WITH CLEAR AUTHORITATIVE GUIDANCE ON EVERY ASPECT OF THIS RAPIDLY EVOLVING AREA OF HEART IMAGING COVERING CORONARY CT ANGIOGRAPHY CCTA CORONARY ARTERY CALCIUM CAC AND VARIOUS OTHER USES OF CARDIAC CT RANGING FROM VALVULAR TO STRUCTURAL HEART DISEASE EDITOR DR RON BLANKSTEIN AND A TEAM OF EXPERT CONTRIBUTING AUTHORS DISCUSS PRINCIPLES OF IMAGE ACQUISITION PATIENT INDICATIONS IMAGING APPROACHES DIAGNOSTIC CRITERIA EVALUATION APPROACHES AND THE LATEST ADVANCES IN THE TECHNOLOGY FROM COVER TO COVER THIS NEW VOLUME OFFERS RELIABLE AND CURRENT POINT OF CARE COVERAGE OF CARDIAC CT MAKING IT AN IDEAL RESOURCE FOR PRACTITIONERS AT ALL LEVELS OF EXPERIENCE OFFERS CONCISE COMPREHENSIVE COVERAGE OF BASIC PRINCIPLES PREVENTION CORONARY CT ANGIOGRAPHY CARDIAC CT AND PLAQUE ANALYSIS TECHNIQUES TO EVALUATE CAD AND VALVULAR

AND STRUCTURAL HEART DISEASE FEATURES MORE THAN 200 HIGH QUALITY FIGURES THROUGHOUT INCLUDING CT IMAGES USING THE LATEST PHOTON COUNTING CT TECHNOLOGIES AS WELL AS DECISION MAKING ALGORITHMS COVERS IMPLICATIONS FOR SPECIAL POPULATIONS INCLUDING PATIENTS WITH DIABETES CANCER AND SYSTEMIC INFLAMMATORY DISEASES REFLECTS THE LATEST ACC ESC AND AHA GUIDELINE RECOMMENDATIONS INCLUDING THE NEWEST ACC AHA CHEST PAIN GUIDELINE SHARES THE KNOWLEDGE AND EXPERTISE OF EXPERT INTERNATIONAL WRITERS WHO OFFER THE MOST CURRENT UNDERSTANDING AND BEST PRACTICE APPLICATIONS OF CARDIAC CT TECHNOLOGY ANY ADDITIONAL DIGITAL ANCILLARY CONTENT MAY PUBLISH UP TO 6 WEEKS FOLLOWING THE PUBLICATION DATE 200 FIGURES INCLUDING CT IMAGING SCANS AND DECISION MAKING ALGORITHMS CONCISE COMPREHENSIVE COVERAGE OF BASIC PRINCIPLES PREVENTION CORONARY CT ANGIOGRAPHY CORONARY CTA AND PLAQUE ANALYSIS TECHNIQUES TO EVALUATE CAD AND VALVULAR AND STRUCTURAL HEART DISEASE IMPLICATIONS FOR SPECIAL POPULATIONS INCLUDING PATIENTS WITH DIABETES CANCER AND SYSTEMIC INFLAMMATORY DISEASES LATEST ACC ESC AND AHA GUIDELINE RECOMMENDATIONS INCLUDING THE NEWEST ACC AHA CHEST PAIN GUIDELINES EXPERT INTERNATIONAL WRITERS REPRESENTING THE MOST CURRENT UNDERSTANDING AND BEST PRACTICE APPLICATIONS OF CARDIAC CT TECHNOLOGY

OBTAINING AND INTERPRETING IMAGES OF THE HEART IS CRITICAL TO THE SUCCESSFUL MANAGEMENT OF ANY CARDIAC DISORDERS SEVERAL IMAGING MODALITIES ARE USED TO HELP CARDIOLOGISTS CORRECTLY DIAGNOSE THESE DISORDERS AND INITIATE THE MOST APPROPRIATE FORM OF TREATMENT SINCE THE FIRST PUBLICATION OF THIS BOOK THE USE OF CARDIOVASCULAR CT IMAGING HAS INCREASED EXPONENTIALLY REVISED AND UPDATED CARDIAC CT MADE EASY AN INTRODUCTION TO CARDIOVASCULAR MULTIDETECTOR COMPUTED TOMOGRAPHY SECOND EDITION CAPTURES THESE ADVANCES IN CT SCANNER TECHNOLOGY AND CLINICAL EXPERIENCE FOR THE FIRST TIME THIS NEW EDITION INCLUDES ONLINE ACCESS TO IMAGING VIDEO CLIPS COMBINING THE EXPERTISE OF LEADING CARDIOVASCULAR IMAGING GROUPS IN NORTH AMERICA EUROPE AND ASIA THIS SECOND EDITION CONTINUES TO SERVE AS A COMPREHENSIVE INTRODUCTION TO THE FIELD IT FOCUSES ON THE PRINCIPLES OF MULTIDETECTOR COMPUTED TOMOGRAPHY MDCT FOR CARDIOVASCULAR APPLICATIONS PRACTICAL ASPECTS OF SCAN ACQUISITION AND INTERPRETATION CLINICAL INDICATIONS AND IMAGING PROTOCOLS AND CLINICAL FINDINGS OF COMMON CARDIOVASCULAR DISEASE CONDITIONS THE BOOK IS AN ESSENTIAL RESOURCE FOR THOSE NEW TO THE FIELD AND A TRUSTWORTHY REFERENCE FOR THOSE NEEDING ANSWERS TO SPECIFIC QUESTIONS OR LOOKING TO UPDATE THEIR KNOWLEDGE NOW INCLUDES AN IDENTICAL EBOOK VERSION FROM VITALSOURCE WITH ACCESS TO VIDEO MATERIAL

THIS BOOK IS A COMPREHENSIVE AND RICHLY ILLUSTRATED GUIDE TO CARDIAC CT ITS CURRENT STATE APPLICATIONS AND FUTURE DIRECTIONS WHILE THE FIRST EDITION OF THIS TEXT FOCUSED ON WHAT WAS THEN A NOVEL INSTRUMENT LOOKING FOR APPLICATION THIS EDITION COMES AT A TIME WHERE A WEALTH OF GUIDELINE DRIVEN ROBUST AND BENEFICIAL CLINICAL APPLICATIONS

HAVE EVOLVED THAT ARE ENABLED BY AN ENORMOUS AND EVER GROWING FIELD OF TECHNOLOGY ACCORDINGLY THE FOCUS OF THE TEXT HAS SHIFTED FROM A TECHNOLOGY CENTRIC TO A MORE PATIENT CENTRIC APPRAISAL WHILE THE SPECIFICATIONS AND CAPABILITIES OF THE CT SYSTEM ITSELF REMAIN FRONT AND CENTER AS THE BASIS FOR DIAGNOSTIC SUCCESS MUCH OF THE BENEFIT DERIVED FROM CARDIAC CT TODAY COMES FROM AVANT GARDE TECHNOLOGIES ENABLING ENHANCED VISUALIZATION QUANTITATIVE IMAGING AND FUNCTIONAL ASSESSMENT ALONG WITH EXCITING DEEP LEARNING AND ARTIFICIAL INTELLIGENCE APPLICATIONS CARDIAC CT IS NO LONGER A MERE TOOL FOR NON INVASIVE CORONARY ARTERY STENOSIS DETECTIONIN THE CHEST PAIN DIAGNOSTIC ALGORITHMS CARDIAC CT HAS PROVEN ITS VALUE FOR USES AS DIVERSE AS PERSONALIZED CARDIOVASCULAR RISK STRATIFICATION PREDICTION AND MANAGEMENT DIAGNOSING LESION SPECIFIC ISCHEMIA GUIDING MINIMALLY INVASIVE STRUCTURAL HEART DISEASE THERAPY AND PLANNING CARDIOVASCULAR SURGERY AMONG MANY OTHERS THIS SECOND EDITION IS AN AUTHORITATIVE GUIDE AND REFERENCE FOR BOTH NOVICES AND EXPERTS IN THE MEDICAL IMAGING SCIENCES WHO HAVE AN INTEREST IN CARDIAC CT

THIS BOOK COLLATES ALL THE CURRENT KNOWLEDGE OF CARDIAC CT AND PRESENTS IT IN A CLINICALLY RELEVANT AND PRACTICAL TEXTBOOK FORMAT APPROPRIATE FOR BOTH CARDIOLOGISTS AND RADIOLOGISTS THE IMAGES HAVE BEEN SUPPLIED BY AN EXPERIENCED SET OF CONTRIBUTING AUTHORS AND REPRESENT THE FULL SPECTRUM OF CARDIAC CT THE FIELD OF CARDIOVASCULAR CT HAS EXPERIENCED CONTINUED RAPID EVOLUTION DUE TO 1 ADVANCES IN TECHNOLOGY 2 EXPANDED SPECTRUM OF CARDIOVASCULAR APPLICATIONS AND 3 SIGNIFICANT GROWTH IN PUBLISHED DATA INCLUDING LARGE PROSPECTIVE MULTICENTER STUDIES AS INCREASING NUMBERS HAVE ACCESS TO CARDIAC CT SCANNERS THIS BOOK PROVIDES ALL THE RELEVANT INFORMATION ON THIS MODALITY THIS IS AN EXTENSIVE UPDATE OF THE PREVIOUS EDITION BRINGING THE READER UP TO DATE WITH THE IMMENSE AMOUNT OF UPDATED CONTENT IN THE DISCIPLINE

COMPUTED TOMOGRAPHY CT IS BECOMING INCREASINGLY MORE IMPORTANT IN THE DIAGNOSIS OF CARDIAC DISEASE AS MORE HOSPITALS PURCHASE SCANNERS FOR CARDIAC CT MORE CARDIOLOGISTS ARE LEARNING HOW TO INTERPRET THE SCANS THIS ISSUE IS GEARED TO HELPING CARDIOLOGISTS UNDERSTAND AND ADOPT THIS NEW MODALITY IT INCLUDES ARTICLES ON CT ANGIOGRAPHY EVALUATION OF THE CORONARY ATHEROSCLEROTIC PLAQUE EVALUATION OF HEART VALVES AND ELECTROPHYSIOLOGY APPLICATIONS OF CT AMONG OTHERS

CARDIAC IMAGING INTEGRATION PRACTICAL INSIGHTS CARDIAC IMAGING HAS EVOLVED RAPIDLY FROM ISOLATED MODALITY BASED ASSESSMENTS TO A COMPLEX INTERCONNECTED DIAGNOSTIC ECOSYSTEM IN CONTEMPORARY CARDIOVASCULAR CARE NO SINGLE IMAGING TECHNIQUE CAN ADEQUATELY ADDRESS THE ANATOMICAL FUNCTIONAL AND BIOLOGICAL COMPLEXITY OF HEART DISEASE CARDIAC IMAGING INTEGRATION PRACTICAL INSIGHTS PROVIDES A COMPREHENSIVE CLINICALLY FOCUSED GUIDE TO THE INTELLIGENT INTEGRATION OF MULTIMODAL CARDIAC IMAGING IN REAL WORLD PRACTICE THIS BOOK BRIDGES THE GAP BETWEEN IMAGING TECHNOLOGY AND BEDSIDE DECISION MAKING RATHER THAN PRESENTING IMAGING MODALITIES IN ISOLATION IT EMPHASIZES

HOW ECHOCARDIOGRAPHY CARDIAC CT CARDIAC MRI AND NUCLEAR CARDIOLOGY COMPLEMENT ONE ANOTHER ACROSS DIVERSE CLINICAL SCENARIOS THROUGH DISEASE SPECIFIC PATHWAYS STRUCTURED ALGORITHMS AND INTEGRATED CASE DISCUSSIONS READERS ARE GUIDED ON WHEN TO IMAGE WHAT MODALITY TO CHOOSE HOW TO INTERPRET FINDINGS COLLECTIVELY AND HOW IMAGING DIRECTLY INFORMS PATIENT MANAGEMENT COVERING CORONARY ARTERY DISEASE CARDIOMYOPATHIES VALVULAR HEART DISEASE HEART FAILURE CONGENITAL AND STRUCTURAL HEART DISEASE AND SPECIAL POPULATIONS THE TEXT HIGHLIGHTS PRACTICAL IMAGING STRATEGIES ALIGNED WITH CONTEMPORARY CLINICAL GUIDELINES ADVANCED TOPICS INCLUDING PARAMETRIC MAPPING HYBRID IMAGING IMAGING GUIDED INTERVENTIONS ARTIFICIAL INTELLIGENCE RADIOMICS AND INTEGRATION WITH ELECTROPHYSIOLOGY ARE PRESENTED IN A CLEAR CLINICALLY RELEVANT MANNER WITHOUT UNNECESSARY TECHNICAL ABSTRACTION THE BOOK IS RICHLY SUPPORTED BY REAL WORLD CLINICAL CASES ILLUSTRATING MULTIMODALITY DECISION MAKING FLOWCHARTS AND IMAGING ALGORITHMS FOR DIAGNOSTIC AND MANAGEMENT PATHWAYS TABLES SUMMARIZING STRENGTHS LIMITATIONS AND COMPARATIVE ROLES OF EACH MODALITY GUIDELINE BASED RECOMMENDATIONS AND CONSENSUS STATEMENTS TRANSLATED INTO DAILY PRACTICE OPERATIONAL AND ORGANIZATIONAL INSIGHTS ON BUILDING AND RUNNING INTEGRATED IMAGING SERVICES IMPORTANTLY CARDIAC IMAGING INTEGRATION PRACTICAL INSIGHTS GOES BEYOND INTERPRETATION TO ADDRESS WORKFLOW REPORTING STANDARDIZATION MULTIDISCIPLINARY COLLABORATION EDUCATION AND HEALTH SYSTEM CONSIDERATIONS IT SERVES NOT ONLY AS A REFERENCE BUT AS A PRACTICAL MANUAL FOR IMPLEMENTING INTEGRATED CARDIAC IMAGING IN MODERN CARDIOVASCULAR PRACTICE

FOR MORE THAN 30 YEARS THE HIGHLY REGARDED SECRETS SERIES HAS PROVIDED STUDENTS AND PRACTITIONERS IN ALL AREAS OF HEALTH CARE WITH CONCISE FOCUSED AND ENGAGING RESOURCES FOR QUICK REFERENCE AND EXAM REVIEW CARDIOLOGY SECRETS 6TH EDITION OFFERS PRACTICAL UP TO DATE COVERAGE OF THE FULL RANGE OF ESSENTIAL TOPICS IN THIS DYNAMIC FIELD THIS HIGHLY REGARDED RESOURCE FEATURES THE SECRETS POPULAR QUESTION AND ANSWER FORMAT THAT ALSO INCLUDES LISTS TABLES PEARLS MEMORY AIDS AND AN EASY TO READ STYLE MAKING INQUIRY REFERENCE AND REVIEW QUICK EASY AND ENJOYABLE THE PROVEN SECRETS SERIES FORMAT GIVES YOU THE MOST RETURN FOR YOUR TIME SUCCINCT EASY TO READ ENGAGING AND HIGHLY EFFECTIVE FULLY REVISED AND UPDATED INCLUDING NEW INFORMATION ON PERIPHERAL VASCULAR AND CEREBROVASCULAR DISEASE DIRECT ORAL ANTICOAGULANT AGENTS AND TRANSCATHETER AORTIC VALVE REPLACEMENT TAVR NEW CHAPTER ON COVID 19 AND THE CARDIOVASCULAR SYSTEM SEVERAL HUNDRED ILLUSTRATIONS FIGURES AND FLOW DIAGRAMS CLEARLY DEPICT KEY TOPICS TOP 100 SECRETS AND KEY POINTS BOXES PROVIDE A FAST OVERVIEW OF THE SECRETS YOU MUST KNOW FOR SUCCESS IN PRACTICE AND ON EXAMS BULLETED LISTS MNEMONICS PRACTICAL TIPS FROM GLOBAL LEADERS IN THE FIELD ALL PROVIDING A CONCISE OVERVIEW OF IMPORTANT BOARD RELEVANT CONTENT WRITTEN BY GLOBAL EXPERTS AND THOUGHT LEADERS IN CARDIOVASCULAR DISEASE

A COMPREHENSIVE ATLAS CONTAINING PHOTOMICROGRAPHS ANATOMIC ILLUSTRATIONS TABLES AND CHARTS PAIRED WITH LEGENDS AND EXPLANATIONS THAT ARE SUPPLEMENTED BY EXTENSIVE RESEARCH PEER REVIEWED ARTICLES AND TEXTBOOKS IN ADDITION TO PROVIDING HISTORICAL PERSPECTIVE AND CURRENT DIRECTION FOR COMPUTED TOMOGRAPHY THIS ATLAS FOCUSES ON RESEARCH INVOLVING CORONARY ARTERY DISEASES AND ANOMALIES CONGESTIVE HEART FAILURE ATHEROSCLEROTIC PLAQUES AND ASYMPTOMATIC DISEASE AS WELL AS IMAGING TECHNIQUES INCLUDING PREPARATION ACQUISITION AND PROCESSING INVOLVING THE GREAT VESSELS AND CAROTIDS THE PERIPHERAL VASCULATURE AND CORONARY AND PULMONARY VEINS ALSO A DISCUSSION OF THE ROLE OF COMPUTED TOMOGRAPHY IN THE EMERGENCY ROOM AND IN PRIVATE CARDIOLOGY PRACTICE

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SEMINAR PAPER FROM THE YEAR 2011 IN THE SUBJECT MEDICINE OTHER GRADE 1 3 UNIVERSITY OF APPLIED SCIENCES ULM INFORMATIK COURSE MEDIZINISCHE BILDVERARBEITUNG LANGUAGE ENGLISH ABSTRACT THIS PAPER INTRODUCES INTO THE ESSENTIALS OF COMPUTED TOMOGRAPHY AND GIVES A BRIEF LEAD IN TO CARDIAC CT WHICH IS THE CLINICAL APPLICATION OF COMPUTED TOMOGRAPHY IN CARDIAC IMAGING AT FIRST THE USAGE OF X RAYS IS EXPLAINED AND THE RESULTING MAIN TASK OF A CT SCANNER THE RECONSTRUCTION OF A THREE DIMENSIONAL IMAGE FROM THE X RAY SHADOWS THAT ARE CAPTURED BY THE DIGITAL RADIATION DETECTOR UNIT THIS RECONSTRUCTION PROBLEM IS KNOWN AS THE INVERSE PROBLEM IN MATHEMATICS WHICH WAS INITIALLY SOLVED BY JOHANN RADON TRANSFERRED TO THE FIELD OF COMPUTED TOMOGRAPHY THE INVERSE PROBLEM MEANS THE DEFINITION OF A VOLUME DATASET BY RECONSTRUCTION ALGORITHMS LIKE FOR INSTANCE THE FOURIER TRANSFORM WHICH IS SHORTLY INTRODUCED AS WELL AS THE FILTERED BACKPROJECTION THE MAIN ISSUE OF CARDIAC CT IS THE STEADY MOVEMENT OF THE HEART AND CHEST OF AN EXAMINED PATIENT TO ENSURE HIGH IMAGE QUALITY THE SCANNER IS TRIGGERED BY A CONCURRENTLY RECORDED ECG ECG TRIGGERING CAN ENSURE THAT THE SCANNER ONLY CAPTURES IMAGES DURING THE PHASES OF THE HEARTBEAT WHERE MOVEMENT IS MINIMAL ONE MAJOR APPLICATION OF CARDIAC CT IS NON INVASIVE CORONARY ANGIOGRAPHY WHICH POSSIBLY COULD SUBSTITUTE INVASIVE DIAGNOSTIC SURGERIES LIKE CARDIAC CATHETERIZATION OF NON EMERGENCY PATIENTS

OBTAINING AND INTERPRETING IMAGES OF THE HEART IS CRITICAL TO THE SUCCESSFUL MANAGEMENT OF ANY CARDIAC DISORDERS SEVERAL IMAGING MODALITIES ARE USED TO HELP CARDIOLOGISTS CORRECTLY DIAGNOSE THESE DISORDERS AND INITIATE THE MOST APPROPRIATE FORM OF TREATMENT SINCE THE FIRST PUBLICATION OF THIS BOOK THE USE OF CARDIOVASCULAR

CT IMAGING HAS INCREASED EXPONENTIALLY REVISED AND UPDATED CARDIAC CT MADE EASY AN INTRODUCTION TO CARDIOVASCULAR MULTIDETECTOR COMPUTED TOMOGRAPHY SECOND EDITION CAPTURES THESE ADVANCES IN CT SCANNER TECHNOLOGY AND CLINICAL EXPERIENCE FOR THE FIRST TIME THIS NEW EDITION INCLUDES ONLINE ACCESS TO IMAGING VIDEO CLIPS COMBINING THE EXPERTISE OF LEADING CARDIOVASCULAR IMAGING GROUPS IN NORTH AMERICA EUROPE AND ASIA THIS SECOND EDITION CONTINUES TO SERVE AS A COMPREHENSIVE INTRODUCTION TO THE FIELD IT FOCUSES ON THE PRINCIPLES OF MULTIDETECTOR COMPUTED TOMOGRAPHY MDCT FOR CARDIOVASCULAR APPLICATIONS PRACTICAL ASPECTS OF SCAN ACQUISITION AND INTERPRETATION CLINICAL INDICATIONS AND IMAGING PROTOCOLS AND CLINICAL FINDINGS OF COMMON CARDIOVASCULAR DISEASE CONDITIONS THE BOOK IS AN ESSENTIAL RESOURCE FOR THOSE NEW TO THE FIELD AND A TRUSTWORTHY REFERENCE FOR THOSE NEEDING ANSWERS TO SPECIFIC QUESTIONS OR LOOKING TO UPDATE THEIR KNOWLEDGE NOW INCLUDES AN IDENTICAL EBOOK VERSION FROM VITALSOURCE WITH ACCESS TO VIDEO MATERIAL

THE MOST COMPREHENSIVE AND CURRENT FULL COLOR CARDIAC SURGERY RESOURCE UPDATED BY LEADING SURGEONS A DOODY S CORE TITLE FOR 2024 2022 IN CARDIAC SURGERY IN THE ADULT FIFTH EDITION THE WORLD S FOREMOST CARDIOVASCULAR SURGEONS DELIVER THOROUGH UP TO DATE COVERAGE OF OPERATIVE STRATEGY DECISION MAKING TECHNIQUE AND PRE AND POST OPERATIVE MANAGEMENT FOR TREATING THE ADULT CARDIAC PATIENT UNMATCHED IN BOTH SCOPE AND CLINICAL RIGOR THIS CLASSIC TEXT CONTAINS 63 CHAPTERS THAT HIGHLIGHT EVERY IMPORTANT TOPIC IN CARDIOVASCULAR SURGERY PRESENTED IN FULL COLOR CARDIAC SURGERY IN THE ADULT TAKES READERS THROUGH THE OPTIMAL TREATMENT OF CONGENITAL ACQUIRED INFECTIOUS AND TRAUMATIC DISEASES OF THE HEART AND GREAT VESSELS THE BOOK OPENS WITH A HISTORY OF CARDIAC SURGERY AND BASIC CARDIAC SCIENCE THEN MOVES INTO ALL TYPES OF CARDIAC SURGERY PROVIDING BOTH PRACTICING SURGEONS AND RESIDENTS WITH INSIGHT INTO THE VERY LATEST SURGICAL PROTOCOLS CARDIAC SURGERY IN THE ADULT IS LOGICALLY DIVIDED INTO TEN SECTIONS BASICS INCLUDES HISTORY ANATOMY PHYSIOLOGY PHARMACOLOGY COMPUTED TOMOGRAPHY RISK ASSESSMENT SIMULATION AND THE FULLY INTEGRATED CARDIOVASCULAR CENTER PERIOPERATIVE INTRAOPERATIVE CARE ISCHEMIC HEART DISEASE AORTIC VALVE DISEASE MITRAL VALVE DISEASE SURGERY OF THE GREAT VESSELS RHYTHM SURGERY OTHER CARDIAC OPERATIONS INCLUDING CONGENITAL HEART DISEASE PERICARDIAL DISEASE AND CARDIAC NEOPLASMS TRANSPLANT AND MECHANICAL CIRCULATORY SUPPORT THE FIFTH EDITION HAS BEEN UPDATED THROUGHOUT AND INCLUDES THE LATEST ADVANCES IN MINIMALLY INVASIVE SURGERY AND SIMULATION

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