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The Best Practice A Couple's Journey to Becoming a Family Physical Fitness and Cardiovascular Health in Specific Populations Symphony and Song Strategies for improving hypertension management The Best is Yet to Come Sports cardiology The Party Advances in Surgical and Medical Specialties Hippocrates' Shadow Safe Filler Injection Techniques Prehypertension and Cardiometabolic Syndrome Optimal management of atrial fibrillation: Recent advances North Korea Handbook Angiotensin Vol. I Evidence–based approaches in aging and public health Physiology The Best Bad Dream Perceptions of East Asian and Asian North American Athletics Multiparameter Flow Cytometry in the Diagnosis of Hematologic Malignancies Engineering the System of Healthcare Delivery Utilization of Fish Waste Chalcogens: Advances in Research and Application: 2011 Edition Talking Book Topics Peptides in Energy Balance and Obesity The Best American Travel Writing 2015 A Matter of Face Molecular and Genetic Basis of Renal Disease Atrial Fibrillation: Selection of Management Strategy and Evaluation of Outcomes The Complete Idiot's Guide to Running Injury–Free Commemorative Biographical Record of the Counties of Harrison and Carroll, Ohio, Containing Biographical Sketches of Prominent and Representative Citizens, and of Many of the Early Settled Families Bioactive Compounds from Marine Foods Angiotensin Vol. I Best American Plays The Theory of Endobiogeny Amino Acids in Plants: Regulation and Functions in Development and Stress Defense Therapeutic Effects of Herbal Medicines: How Can We Best Investigate Bioactive Metabolites?

Assessment of Preclinical Organ Damage in Hypertension The Best Science Fiction of the Year Advances in Molecular Pathology 2019 Charles C. Kenney Jay E. Slonaker Gen-Min Lin Victor Kennedy Komal Marwaha Diana Palmer Fabrizio Ricci Robyn Harding Raj Bawa David H. Newman Won Lee Reuven Zimlichman Shaojie Chen Yonhap News Agency, Seoul Thomas Unger Brijesh Sathian Linda S. Costanzo Robert Ward Steve Bien-Aim□ Anna Porwit William B. Rouse Raul Perez Galvez G. □hbeck Andrew McCarthy Wally Weaver David B. Mount Rui Providencia Bob Schaller Blanca Hern□ndez-Ledesma E. M. Abdel-Rahman John Gassner Kamyar M. Hedayat Maurizio Trovato Shuai Ji Enrico Agabiti Rosei Neil Clarke Gregory J. Tsongalis

americans have always thought their healthcare system was the best in the world but starting in the late 1990s shocking reports emerged that showed this was far from the truth treatment related deaths or complications were found to be the fifth leading cause of death for americans and hundreds of thousands of patients were being harmed by botched medical procedures spurred by the quality crisis a group of visionary physicians led by donald berwick and paul batalden embarked on a study of industrial quality improvement techniques daring to apply them to the practice of medicine despite resistance from the medical community the best practice tells the story of this burgeoning movement and of how the medical landscape is being radically transformed for the better

jay e slonaker ii was born november 17 1976 in martinsburg west virginia and still resides in the dc metropolitan area jay remains an active member of his church in hagerstown maryland and is a co founder of a non profit organization created to assist local families in need he is the proud father of 3 beautiful children and shares his story of hope and parenthood with every opportunity that arises

symphony and song takes its title from coleridge s poem kubla khan and explores the relation between words and music from a variety of critical and practical perspectives the contributors to this volume apply recent theoretical approaches ranging from the mozart effect in cognitive psychology through stylistics and conceptual metaphor to transtextuality in the analysis of a range of songs song lyrics poetry ekphrastic prose and instrumental music topics explored here include opera and pop music from around the world australian aboriginal oral poetry political instrumentalization and censorship of song lyrics and teaching foreign language using songs

the second time around as a young secretary ivy mckenzie fell hopelessly in love with tycoon ryder calaway but the searing passion that sizzled between them and ryder s cool rejection sent innocent ivy running now five years later ivy discovered that ryder s magnetic virility was still as daunting and harder than ever to evade jet setter ryder had always gotten what he wanted except for ivy for years he d waited for her longed for her now she was free and ryder s patience was at an end this time he vowed to make her irrevocably his given this precious second chance could he convince sweet ivy that the best was yet to come

it was supposed to be a celebration how did it all go so wrong a tense and riveting story about one night gone horribly wrong and the fallout within a family and a group of friends megan miranda author of all the missing girls sweet sixteen it s a coming of age a milestone a rite of passage of course jeff and kim sanders will throw a party for their daughter hannah she s a good kid with good grades and nice friends and it isn t going to be a big indulgent affair just four girls coming over for pizza and cake movies and a sleepover what could possibly go wrong but things do go wrong horrifically wrong after a tragic accident jeff and kim s flawless life in a wealthy san francisco suburb begins to unravel the injured girl s mother lisa files a lawsuit that turns friends into enemies reveals dark secrets in the sanders marriage and exposes the

truth about their perfect daughter hannah lisa s determination to make the sanders pay stems from a fierce love for her only child and lisa s own dark and damaged past in the party christos tsiolkas s the slap meets liane moriarty s big little lies taking us behind the façade of the perfect family exploring the secrets betrayals and moral lapses the neighbors don t see the party uncovers the lies and duplicities that children and parents tell each other and tell themselves a compulsive page turner that mines the push pull between basic impulses and doing the right thing the party is a domestic drama that spins off the rails with hellish consequences erica ferencik author of the river at night cleverly constructed and brilliantly paced the party is a raw telling of a family coming apart at the seams robyn harding weaves a riveting tale that is impossible to put down bill clegg new york times bestselling author of did you ever have a family

the pace and sophistication of advances in medicine in the past two decades have been truly breathtaking this has necessitated a growing need for comprehensive references that highlight the current issues in specific sectors of medicine keeping this in mind each volume in the current issues in medicine series is a stand alone text that provides a broad survey of various critical topics in a focused area of medicine all accomplished in a user friendly yet interconnected format however unlike other series on medicine or medical texts this series focuses on current trends perspectives and issues in medicine that are central to healthcare delivery in the 21st century medical practitioners today continue to improve upon techniques and technologies to provide procedures for patients that are safer faster less invasive and more accurate a direct consequence of advances in technological breakthroughs from a variety of medical and engineering fields in order to render modern patient care it is imperative that surgeons and medical practitioners stay current with these latest advances in their respective specialties given this backdrop the specific topics covered in this volume and the expertise of the contributing authors accurately reflect the rapidly evolving areas within surgical and medical specialties while recognising

how expansive and multifaceted medicine is advances in surgical and medical specialties addresses crucial recent advances in surgical and medical specialties intergrating the knowledge and experience of experts from academia and practicing surgeons the multidisciplinary approach reflected here makes this volume a valuable reference resource for medical practitioners medical students nurses fellows residents undergraduate and graduate students educators venture capitalists policymakers and biomedical researchers a wide audience will benefit from having this volume on their bookshelf health care systems the pharmaceutical industry academia and government

aclear sighted heartfelt and humane story of the needless tests and treatments that cripple healthcare as a guide to good medicine it may help us get back to the essence of what good doctors do be with patients in healing samuel shem m d author of the house of god and the spirit of the place in hippocrates shadow dr david h newman upends our understanding of the doctor patient relationship and offers a new paradigm of honesty and communication he sees a disregard for the healing power of the bond that originated with hippocrates and ultimately a disconnect between doctors and their oath to do no harm exposing the patterns of secrecy and habit in modern medicine s carefully protected subculture dr newman argues that doctors and patients cling to tradition and yield to demands for pills or tests citing fascinating studies that show why antibiotics for sore throats are almost always unnecessary how cough syrup is rarely more effective than a sugar pill and why cpr is violent invasive and almost always futile this thought provoking book cuts to the heart of what really works and what doesn t in medicine

filler injection is one of the most common aesthetic procedure there are a lot of guidelines but there are no illustrated step by step instructions on safe filler injection procedures the book will offer guidance to clinicians who wish to expand their practice to minimally invasive cosmetic procedures injection techniques for hyaluronic acid filler is highlighted to help

practitioners perform the procedures more effectively and safely with evidence based approach the most safe procedure including vascular anatomical illustration and ultrasound findings rheological data is presented

this book sheds new light on the management of patients with borderline cardiovascular risk factors in order to prevent their progression to end organ damage the book stimulates discussion of this poorly understood condition and lays the groundwork for developing recommendations and guidelines while the diagnostic and therapeutic approach to full blown diabetes hypertension dyslipidemia and obesity is well defined there is still a lack of clear understanding and guidelines as far as patients with borderline conditions especially when multiple are concerned moreover end organ damage depends on several factors including genetic factors making it difficult to predict its extent as such the gradual transition from a healthy subject to one with functional hemodynamic changes and then one with structurally asymptomatic changes and lastly to overt disease needs further investigation in order to address these knowledge gaps the book covers a broad variety of topics making it a valuable tool for identifying which asymptomatic subjects could profit from being appropriately screened and at what stage furthermore it offers insights into better treating these patients to prevent their progression to overt disease the book appeals to cardiologists primary care physicians and all those healthcare professional looking to optimize the management of these complex and often undiagnosed cases

this is a timely and comprehensive guide to one of the most volatile misunderstood and potentially dangerous states in the world and one of great strategic importance to u s interests in asia featuring a detailed who s who section it covers politics the economy the military education and culture and provides numerous vital statistical data

nearly thirty years ago in 1974 the volume on angiotensin edited by irvine h page and f merlin bumpus expanded the

handbook of experimental pharmacology even after two decades the multiplicity of its actions appears not to have been fully discovered to call attention to its many functions is one of the purposes of this book this new edition of the volume on angiotensin attempts to provide an updated account of the knowledge and findings accumulated since the complexity of angiotensin was so accurately recognized

this collection of 60 cases covers the clinically relevant physiology topics that first and second year medical students need to know for a first year physiology course and for usmle step 1 organized by body system the book presents case studies with questions and problems followed by complete explanations and solutions including diagrams graphs and charts this edition includes four new cases and more illustrations and flowcharts a companion website will offer the fully searchable online text

a fed s debt to a sexy snitch leads to a darkly funny nightmare of double crosses and sinister motives ward is simply the best michael connelly all fbi agent jack harper wants is a heavenly vacation in baja sand surf and fishing then he gets a phone call from hell it s his for lack of a better word girlfriend michelle wu the hot con artist and irresistible chop shop queen needs jack s help in finding her kidnapped sister a nurse working a posh taos health spa for seniors michelle s got an idea who d gain from it a biker she wronged who s got a rotten sweet tooth for revenge but jack must be nuts to think the case would end with a homicidal gang called sons of satan it s just beginning and where it leads jack his partner oscar hidalgo and michelle is down a dark road with so many sharp turns and twists it could snap a neck so buckle up for the best bad dream by the pen west prize winning heir to the pulp fiction tradition bookreporter com and we dare you name another novel that starts out with new age satire and winds up with a bizarro oldster version of texas chainsaw massacre ward s no holds barred style and fevered imagination will hit the spot for a special kind of bent reader booklist



this book highlights inconsistencies within the field of sports scholarship and provides an opportunity to open up and extend conversations about the intersection of sports media and race particularly surrounding athletes of east asian descent despite the growing influence of east asian and asian american canadian athletes they are still underrepresented in western media and in scholarship this anthology adds much needed literature to sports popular culture east asian and asian american studies the prominence of sports in global popular culture makes the intersections explored in this collection a crucial addition to existing conversations about both sports and east asian asian american canadian studies

master implementation of the techniques of flow cytometry in diagnosing complex haematological diseases and malignancies in patients worldwide featuring world health organization recommendations on pre analytical steps instrument settings and panel construction this invaluable manual offers invaluable support for those researching practising and analyzing the cause of hematological malignancies authored by leading experts this book puts flow cytometry into everyday context with a focus on multicolour panels the manual provides readers an experienced understanding of effective implementation techniques practitioners of all levels are offered a background in a variety of diseases presented alongside the most current methodology wide ranging and comprehensive detailed images of healthy blood bone marrow and lymph nodes are illustrated throughout allowing for effective diagnosis through engaging with differential diagnoses the manual offers an understanding of similar symptoms and mimicking malignancies avoiding inaccurate results featuring in depth descriptions of chronic diseases users can reach accurate diagnosis first time

the us healthcare system has many excellent components strong scientific input extraordinary technology for diagnosis and treatment dedicated staff and top class facilities among them but the system has evolved haphazardly over time and although it has not failed entirely the authors argue that like any system where attention is paid to individual components

at the expense of the system as a whole it can never hope to succeed above all they point out that the us system does not provide high value healthcare it has the highest costs in the world and yet many other countries have lower infant mortality rates and better life expectancy

the shortage of marine resources calls for the implementation of new technological processes for providing a better utilization of waste and by products from fisheries and fish processing activities most of these by products are currently used as raw materials for animal feed it is estimated that their utilization in human foodstuffs nutraceuticals pharmacy or cosmetics would increase their value fivefold this book discusses the opportunities for upgrading these materials by means of basic technologies such as hydrolysis membrane ultrafiltration and better handling techniques

chalcogens advances in research and application 2011 edition is a scholarlyeditions ebook that delivers timely authoritative and comprehensive information about chalcogens the editors have built chalcogens advances in research and application 2011 edition on the vast information databases of scholarlynews you can expect the information about chalcogens in this ebook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of chalcogens advances in research and application 2011 edition has been produced by the world s leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at scholarlyeditions and available exclusively from us you now have a source you can cite with authority confidence and credibility more information is available at scholarlyeditions com

obesity is one of the relevant public health concerns and it is evident that body weight control is achieved through highly integrated physiological interactions like nutrient selection presenting an account of the roles of specific peptides in energy

balance this title provides an understanding of the patho physiology of energy balance

a collection of the year s best travel writing

alone in post world war ii china american spy tompkins must be cautious at all times for reasons even he himself does not understand tommy opts to buy a young korean woman yunhee kim quietly enters tommy s life living with him in hangkow china but when tommy s cover is blown yunhee reveals herself to be a korean intelligence agent together the two flee hangkow and accept an even more dangerous assignment that will take them into communist north korea

this companion to brenner and rector s the kidney offers a state of the art summary of the most recent advances in renal genetics molecular and genetic basis for renal disease provides the nephrologist with a comprehensive look at modern investigative tools in nephrology research today and reviews the molecular pathophysiology of the nephron as well as the most common genetic and acquired renal diseases a comprehensive clinical review of medelian renal disease is also be included detailed review of the molecular anatomy and pathophysiology of the nephron that provides relevant basic science to consider when diagnosing and managing patients with these disorders

atrial fibrillation af is an increasing arrhythmia disease its pathophysiology is the subject of many studies rate and rhythm control along with stroke prophylaxis are the cornerstones of af therapy with the recent evolution of techniques af ablation is becoming the first therapeutic option in many centres worldwide pulmonary vein isolation pvi for paroxysmal af is now well established additional methods are now rising with non pv trigger ablation such as drivers posterior wall isolation epicardial ablation recognition of physiopathological signature for af is the next challenge for all rythmologists this will be

achieved only by collecting different inputs such as imagery and mapping this research topic will focus on how to define a persistent af ablation strategy and evaluate its outcome what is the role of pre ablation imagery mri ultrasound ct in elaborating an af ablation strategy could post ablation imagery be a tool to evaluate the success of an ablation furthermore the different and complex mechanisms initiating and maintaining af are still under investigation leading to the absence of consensus for ablation treatment what are the roles played by the new mapping tools along with their algorithms regarding the outcome of ablation the recent development of new ablation technologies catheters such as pulse field ablation and radiofrequency balloon are bringing a lot of questions regarding long term results of pvi and non pv trigger ablation

no pain maximum gain more than half of all runners in the u are sidelined at least once a year because of an injury many others run through the pain that starts to surface as they age the result of years of bad posture joint and muscle stiffness and poor running mechanics this guide provides readers with a holistic approach to preventing injuries and getting rid of nagging pains in it readers learn how to increase flexibility calibrate muscle strength pick the right shoes break bad habits and more all while improving distance and efficiency

part of the ift press series this book reviews the myriad published information on bioactive components derived from marine foods enabling researchers and product developers to select appropriate functional ingredients for new products chapters cover foods and food ingredients from both animal and plant marine sources focusing on those which demonstrate biological properties and whose constituent compounds have been isolated and identified as potentially active this book further addresses the biological activities of pufas polyunsaturated fatty acids oils phospholipids proteins and peptides fibres carbohydrates chitosans vitamins and minerals fucoxantin polyphenols phytosterols taurine amongst others these components found in a variety of marine derived foods have been demonstrated to have preventative properties with

regard to hypertension oxidative stress inflammation cardiovascular diseases cancer and other human diseases extraction methods and analysis techniques are also addressed intended for food scientists food technologists and food engineers in academia industry and government this book reviews the substantial quantity of current research in this fast moving and commercially valuable sector of food and nutrition science

with contributions by numerous experts

the theory of endobiogeny volume 1 global systems thinking and biological modeling for clinical medicine offers researchers and clinicians a detailed introduction to the theory of endobiogeny the book presents a new approach to medicine that is at once scientific and humanistic quantitative and qualitative the philosophical and experimental basis of a global complex systems approach to physiology is presented along with a mathematical approach to modeling the dynamism of the terrain the importance of the history and physical examination are renewed as a source of big data readily available to clinicians for greater insight into the patient s state expansion of the therapeutic compendium is proposed based on a rational clinical approach correlated to mathematical indicators of the physiologic state what is proposed in this work is a fundamental shift in scientific thinking with a resulting expansion of the boundaries of clinical medicine for the 21st century and beyond extends systems biology from the cellular to the integrative physiologic level moves the functional medicine approach to a higher level of integration and true global systems thinking presents mathematical tools and proofs of formulas related to the biology of functions a biological modeling system based on the theory of endobiogeny the biology of functions has assisted clinicians in conceptualizing treating and objectively monitoring the longitudinal effects of treatment through the evolution of the patient s unique phenotypic expression of terrain

this book presents up to date information on how to assess early preclinical alterations in the heart the small and large arteries and the kidney using the most sensitive specific and cost effective techniques a wide variety of techniques are discussed with careful attention to the latest developments for each organ evidence is documented regarding the prevalence of organ damage in the general and the hypertensive population information is provided on the potential induction of regression of organ damage by treatment the criteria for establishing significant changes and the clinical prognostic significance of regression the manual will be invaluable for all practitioners responsible for the clinical management of hypertensive patients given that the assessment of early preclinical cardiovascular and renal damage permits more accurate risk stratification at baseline and facilitates evaluation of cardiovascular protection when regression of structural changes is achieved during treatment

from hugo award winning editor neil clarke the best science fiction stories of the year are collected in a single paperback volume keeping up to date with the most buzzworthy and cutting edge science fiction requires sifting through countless magazines e zines websites blogs original anthologies single author collections and more a task accomplishable by only the most determined and voracious readers for everyone else night shade books is proud to introduce the latest volume of the best science fiction of the year a yearly anthology compiled by hugo and world fantasy award winning editor neil clarke collecting the finest that the genre has to offer from the biggest names in the field to the most exciting new writers the best science fiction scrutinizes our culture and politics examines the limits of the human condition and zooms across galaxies at faster than light speeds moving from the very near future to the far flung worlds of tomorrow in the space of a single sentence clarke publisher and editor in chief of the acclaimed and award winning magazine clarkesworld has selected the short science fiction and only science fiction best representing the previous year s writing showcasing the talent variety

and awesome sensawunda that the genre has to offer

this issue of advances in molecular pathology will provide a comprehensive review of the most current practices trends and developments in the field of molecular pathology publishing on an annual basis the volume will be divided into 7 sections genetics hematopathology infectious disease pharmacogenomics informatics solid tumors and identity hla led by dr gregory tsongalis of dartmouth university a team of experienced pathologists from institutions across the country oversee annual topic and expert author selection

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# Unveiling the Secrets of Acquisition Time in MRI: Faster Scans, Better Outcomes

Magnetic Resonance Imaging (MRI) has revolutionized medical diagnostics, providing unparalleled anatomical detail. However, the length of MRI scans, often exceeding 30 minutes, poses significant challenges. Patient discomfort, motion artifacts, and reduced throughput in busy radiology departments are all consequences of lengthy acquisition times. This article delves into the intricacies of MRI acquisition time, exploring the factors that influence it, the techniques used to minimize it, and the implications for both patients and healthcare providers.

## Understanding the Basics of MRI Acquisition

MRI relies on the principles of nuclear magnetic resonance (NMR). Powerful magnets align the protons within the body's water molecules. Radiofrequency (RF) pulses then perturb these aligned protons, and their subsequent relaxation back to equilibrium is detected by the MRI scanner. This signal, containing rich spatial and tissue-specific information, is processed to generate the images we see. The acquisition time is directly related to how long it takes to collect sufficient signal from all the desired locations (voxels) within the body. Several parameters directly influence acquisition time: Spatial Resolution: Higher resolution (smaller voxels) requires more data points to be acquired, significantly increasing scan time. Think of it like taking a high-resolution photograph □ it takes longer to capture than a low-resolution one. Field of View (FOV): A

larger FOV encompassing a broader anatomical region necessitates the acquisition of more data, increasing scan duration. For example, imaging the entire spine takes longer than imaging just a single lumbar vertebra. Slice Thickness: Thinner slices provide better detail but require more slices to cover the same anatomical area, leading to a longer scan time. Number of Averages (NEX): Averaging multiple acquisitions reduces noise and improves signal-to-noise ratio (SNR), but it directly increases scan time. This is often a trade-off between image quality and scan speed. Sequence Type: Different MRI sequences (e.g., T1-weighted, T2-weighted, diffusion-weighted imaging) have inherent differences in acquisition efficiency. Some sequences are inherently faster than others. For instance, fast spin echo sequences are generally faster than standard spin echo sequences.

## Techniques for Reducing Acquisition Time

Significant advancements have been made to accelerate MRI acquisition. Key strategies include: Parallel Imaging: This technique utilizes multiple receiver coils to simultaneously acquire data from different parts of the body. This effectively reduces the number of phase-encoding steps required, significantly decreasing scan time. Techniques like SENSE (Sensitivity Encoding) and GRAPPA (Generalized Autocalibrating Partially Parallel Acquisitions) are commonly used examples. Imagine multiple cameras filming a scene simultaneously □ you can reconstruct the whole scene much faster. Compressed Sensing: This sophisticated approach leverages the inherent sparsity of MRI data. It acquires fewer data points than traditionally required, and then uses sophisticated algorithms to reconstruct a high-quality image. This can dramatically reduce scan time. k-Space Trajectories: Conventional MRI scans follow a Cartesian k-space trajectory. However, more efficient trajectories like radial, spiral, and elliptical sampling can reduce acquisition time. These non-Cartesian trajectories

offer the advantage of robustness to motion. Real-time Imaging: Advanced techniques allow for near real-time imaging, particularly useful in procedures requiring immediate feedback, such as interventional MRI-guided biopsies.

## Real-World Applications and Implications

Reduced acquisition time translates into tangible benefits: Improved Patient Comfort: Shorter scans minimize patient discomfort, claustrophobia, and the need for sedation, especially in children or anxious patients. Increased Patient Throughput: Faster scans allow radiologists to examine more patients, improving efficiency and reducing waiting times. Reduced Motion Artifacts: Faster scans are less susceptible to motion artifacts, leading to higher image quality, particularly crucial in neuroimaging and pediatric studies. Enhanced Workflow Efficiency: The ability to perform more scans in a given time frame improves the overall workflow in radiology departments, optimizing resource utilization. For instance, in emergency situations like stroke diagnosis, faster diffusion-weighted imaging (DWI) sequences are crucial for timely intervention. Similarly, in cardiac MRI, accelerated techniques allow for higher temporal resolution, enabling better visualization of the beating heart.

## Conclusion

Acquisition time is a critical parameter in MRI, impacting image quality, patient experience, and departmental efficiency. The continuous development and implementation of advanced techniques like parallel imaging, compressed sensing, and

optimized k-space trajectories are dramatically reducing scan times. These advancements are not only improving the patient experience but also transforming the landscape of diagnostic imaging, leading to more efficient and effective healthcare delivery.

## Frequently Asked Questions (FAQs):

1. Is a shorter scan time always better? Not always. While shorter scan times are generally desirable, they may sometimes compromise image quality if pushed to extreme levels. There's often a trade-off between speed and image quality that needs to be considered. 2. Are all MRI machines equally fast? No, MRI scanner technology varies considerably. Newer machines often incorporate more advanced acceleration techniques and higher field strengths, resulting in significantly faster scan times compared to older models. 3. Can I request a faster MRI scan? While you can discuss your concerns about scan time with your doctor or radiologist, the choice of acquisition parameters is primarily determined by the clinical needs and the desired image quality. The radiologist will select the optimal sequence and parameters for your specific examination. 4. Does a faster scan cost more? The cost of an MRI scan is usually determined by the type of examination, not solely by the acquisition time. However, advanced accelerated MRI techniques may require more sophisticated software and processing power, potentially influencing the overall cost. 5. Are there any risks associated with faster MRI techniques? Generally, the risks associated with faster MRI techniques are minimal. However, the specific acceleration technique used might impact image quality slightly in some cases. Your radiologist will ensure that the benefits outweigh any potential drawbacks.

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