

Precision Diagnostic Lab

Philip a Dauterman

Biomarkers, Diagnostics and Precision Medicine in the Drug Industry Abdel Halim, 2019-06-08

The high failure rate in the pharmaceutical industry has positioned biomarkers and personalized medicine in the frontline, as possible solutions. If executed right, biomarkers and companion diagnostics (CDx) can potentially help the drug industry enhance the probability of success, accelerate the time to market, and, more importantly, benefit patients by supporting accurate diagnosis and selection of the most effective and least toxic therapies. This book aims to examine the challenges and limitations in biomarkers and laboratory tests. It also offers advice on best practices to ensure proper application of biomarkers and bridges the gap between diagnostic business development claims and real-life deliverables. The book covers biomarkers for different purposes, provides examples from different technologies, which includes standard-of-care approved assays as well as for-investigational-use and for-research-use-only assays. It also includes new data for biomarkers in different therapeutic indications and offers case studies and practical examples. This book serves as a reference to drug developers, IVD providers, clinical labs, healthcare givers, academicians, and researchers for best practices to help increase the probability of success in drug development and improve patient management. Provides the unique insight of an expert with extensive experience in diagnostics and clinical laboratory on one side and drug discovery and

development on the other side Addresses the challenges of drug development and precision medicine and suggests how to eliminate or mitigate these challenges through better utilization of biomarkers and diagnostics in drug development and patient management Features case studies and real-life examples from different classes of biomarkers on different platforms for different therapeutic areas and includes more than 200 illustrations

Statistics Applied to Clinical Trials Ton J. Cleophas, A.H. Zwinderman, Toine F. Cleophas, Eugene P. Cleophas, 2008-12-16 In clinical medicine appropriate statistics has become indispensable to evaluate treatment effects. Randomized controlled trials are currently the only trials that truly provide evidence-based medicine. Evidence based medicine has become crucial to optimal treatment of patients. We can define randomized controlled trials by using Christopher J. Bulpitt's definition "a carefully and ethically designed experiment which includes the provision of adequate and appropriate controls by a process of randomization, so that precisely framed questions can be answered". The answers given by randomized controlled trials constitute at present the way how patients should be clinically managed. In the setup of such randomized trial one of the most important issues is the statistical basis. The randomized trial will never work when the statistical grounds and analyses have not been clearly defined beforehand. All endpoints should be clearly defined in order to perform appropriate power calculations. Based on these power calculations the exact number of available

patients can be calculated in order to have a sufficient quantity of individuals to have the predefined questions answered. Therefore, every clinical physician should be capable to understand the statistical basis of well performed clinical trials. It is therefore a great pleasure that Drs. T. J. Cleophas, A. H. Zwinderman, and T. F. Cleophas have published a book on statistical analysis of clinical trials. The book entitled "Statistics Applied to Clinical Trials" is clearly written and makes complex issues in statistical analysis transparent.

Improving Diagnosis in Health Care National Academies of Sciences, Engineering, and Medicine, Institute of Medicine, Board on Health Care Services, Committee on Diagnostic Error in Health Care, 2015-12-29 Getting the right diagnosis is a key aspect of health care - it provides an explanation of a patient's health problem and informs subsequent health care decisions. The diagnostic process is a complex, collaborative activity that involves clinical reasoning and information gathering to determine a patient's health problem. According to *Improving Diagnosis in Health Care*, diagnostic errors-inaccurate or delayed diagnoses-persist throughout all settings of care and continue to harm an unacceptable number of patients. It is likely that most people will experience at least one diagnostic error in their lifetime, sometimes with devastating consequences. Diagnostic errors may cause harm to patients by preventing or delaying appropriate treatment, providing unnecessary or harmful treatment, or resulting in psychological or

financial repercussions. The committee concluded that improving the diagnostic process is not only possible, but also represents a moral, professional, and public health imperative. Improving Diagnosis in Health Care, a continuation of the landmark Institute of Medicine reports To Err Is Human (2000) and Crossing the Quality Chasm (2001), finds that diagnosis—and, in particular, the occurrence of diagnostic errors—has been largely unappreciated in efforts to improve the quality and safety of health care. Without a dedicated focus on improving diagnosis, diagnostic errors will likely worsen as the delivery of health care and the diagnostic process continue to increase in complexity. Just as the diagnostic process is a collaborative activity, improving diagnosis will require collaboration and a widespread commitment to change among health care professionals, health care organizations, patients and their families, researchers, and policy makers. The recommendations of Improving Diagnosis in Health Care contribute to the growing momentum for change in this crucial area of health care quality and safety.

The Only Diagnostic Lab Book You'll Ever Need
Jonathan E. Thaler, Malcolm S. Thaler, 2024-02-28
Concise, conversational, and easy to use at any level of healthcare experience, The Only Diagnostic Lab Book You'll Ever Need clarifies the when, where, who, and how of diagnostic laboratory testing to help users make informed testing decisions and draw confident clinical conclusions. This approachable how-to guide focuses on the most commonly encountered profiles in everyday

healthcare practice, regardless of specialty, making it the ideal introduction for PAs, nurses, NPs and medical students embarking on their healthcare education, as well as residents, fellows, and practicing clinicians looking for a fast refresher. Straightforward, clinically oriented coverage walks users through selecting and employing the right diagnostic tests from the thousands available, accompanied by engaging case studies that strengthen clinical reasoning and streamline the effective application of lab results in the clinical decision-making process.

Pediatric Diagnostic Labs for Primary Care: An Evidence-based Approach Rita Marie John, 2022-04-27

This textbook helps nurses, physician assistants, medical students and residents to order appropriate tests and understand how to interpret them to improve their diagnostic reasoning. Children are not like adults, and interpreting of the results of their diagnostic laboratory tests requires knowledge of the biochemical and metabolic differences. Using a combination of information, questions and case studies, the book allows readers to gain an understanding of the key concepts of sensitivity, specificity, and positive and negative predictive values, as well as the indications for diagnostic lab tests. This textbook presents the state of art in testing across body systems and guidance on how to order and interpret diagnostic laboratory tests in pediatric patients. Each chapter includes learning objectives, tables and figures, as well as questions and references for further learning. This textbook provides an update for clinicians

and is a valuable learning tool for students and new clinicians. .

Genomic Applications in Pathology George Jabboure Netto, Karen L. Kaul, 2018-12-10 □The recent advances in genomics are continuing to reshape our approach to diagnostics, prognostics and therapeutics in oncologic and other disorders. A paradigm shift in pharmacogenomics and in the diagnosis of genetic inherited diseases and infectious diseases is unfolding as the result of implementation of next generation genomic technologies. With rapidly growing knowledge and applications driving this revolution, along with significant technologic and cost changes, genomic approaches are becoming the primary methods in many laboratories and for many diseases. As a result, a plethora of clinical genomic applications have been implemented in diagnostic pathology laboratories, and the applications and demands continue to evolve rapidly. This has created a tremendous need for a comprehensive resource on genomic applications in clinical and anatomic pathology. We believe that our current textbook provides such a resource to practicing molecular pathologists, hematopathologists and other subspecialized pathologists, general pathologists, pathology and other trainees, oncologists, geneticists and a growing spectrum of other clinicians. With periodic updates and a sufficiently rapid time from submission to publication, this textbook will be the resource of choice for many professionals and teaching programs. Its focus on genomics parallels the evolution of these technologies as primary methods

in the clinical lab. The rapid evolution of genomics and its applications in medicine necessitates the (frequent) updating of this publication. This text will provide a state-of-the-art review of the scientific principles underlying next generation genomic technologies and the required bioinformatics approaches to analyses of the daunting amount of data generated by current and emerging genomic technologies. Implementation roadmaps for various clinical assays such as single gene, gene panels, whole exome and whole genome assays will be discussed together with issues related to reporting and the pathologist's role in interpretation and clinical integration of genomic tests results. Genomic applications for site-specific solid tumors and hematologic neoplasms will be detailed. Genomic applications in pharmacogenomics, inherited genetic diseases and infectious diseases will also be discussed. The latest iteration of practice recommendations or guidelines in genomic testing put forth by stakeholder professional organizations such as the College of American Pathology and the Association for Molecular Pathology, will be discussed as well as regulatory issues and laboratory accreditation related to genomic testing. All chapters will be written by experts in their fields and will include the most up to date scientific and clinical information.

Mosby's Diagnostic and Laboratory Test Reference

- **E-Book** Kathleen Deska Pagana, Timothy J. Pagana, Theresa Noel Pagana, 2016-09-03 Gain quick access to today's most important diagnostic tests and procedures with Mosby's Diagnostic &

Laboratory Test Reference, 13th Edition! In this bestselling handbook, concise test entries are arranged alphabetically and reflect the latest in diagnostic testing and research. Each test includes vital information such as alternate or abbreviated test names, test explanation, normal and abnormal findings, possible critical values, and guidelines to patient care before, during, and after the test. To simplify lookup, related tests are cross-referenced. From the expert author team of Kathleen, Timothy, and Theresa Pagana, this reference offers convenient A-to-Z thumb tabs, a compact size, and a durable cover for everyday use on the job. UNIQUE! Each test entry begins on a new page, making tests easy to find.

Alphabetically organized tests offer quick reference with A-to-Z thumb tabs, so you'll never have to search for a test by having to first determine its correct category or body system.

User's Guide to Test Preparation and Performance provides an overview and guidelines for each type of laboratory test and diagnostic procedure, so you can minimize worry about having to repeat a test due to an error. Icon for patient teaching-related care indicates information that should be shared with patients and their families. Normal findings for adult, elderly, and pediatric patients are included where applicable. Abnormal findings are highlighted with directional arrows to show increased or decreased test results.

Possible critical values are highlighted to alert you to situations requiring immediate intervention. Convenient appendix lists tests by body system and test type, making it easy to

quickly locate related studies. Drug interference with test results is indicated by a mortar and pestle icon. Cross-referencing of related tests makes them easy to find. Abbreviations for tests are listed in the front and the back of the book, and symbols and units of measurement are listed in an appendix. A durable cover with rounded edges helps prevent the book from being damaged and makes it easier to handle. NEW test entries include the latest diagnostic tests and laboratory procedures. NEW! Updated coverage reflects the latest research on the diagnostic values of results, accuracy of testing, and patient care and education for each test.

Diagnostic Skills in Clinical Laboratory Science

Connie R. Mahon, 2004

Radiology in Global Health Daniel J.

Mollura, Matthew P. Lungren, 2014-07-02 The World Health Organization stated that approximately two-thirds of the world's population lacks adequate access to medical imaging. The scarcity of imaging services in developing regions contributes to a widening disparity of health care and limits global public health programs that require imaging. Radiology is an important component of many global health programs, including those that address tuberculosis, AIDS-related disease, trauma, occupational and environmental exposures, breast cancer screening, and maternal-infant health care. There is a growing need for medical imaging in global health efforts and humanitarian outreach, particularly as an increasing number of academic, government, and non-governmental organizations expand delivery of health care to

disadvantaged people worldwide. To systematically deploy clinical imaging services to low-resource settings requires contributions from a variety of disciplines such as clinical radiology, epidemiology, public health, finance, radiation physics, information technology, engineering, and others. This book will review critical concepts for those interested in managing, establishing, or participating in a medical imaging program for resource-limited environments and diverse cross-cultural contexts undergoing imaging technology adaptation.

How To Be A Lab Director 2020 Edition Philip a Dauterman, 2019-10-29 How to be the Lab Director of a general hospital lab. Includes tutorials on: how to make a corrective action, requirements for proficiency testing, how to remediate proficiency testing failures, how to make a Plan of Correction (PoC), how to respond to CMS form 2567, how to put a new analyzer into service, how to do validation and verification, how to do quality control, quality assurance and root cause analysis, how to write a policy and/or procedure and how to respond to complaints and incident reports involving lab. Includes easy to understand explanations of accuracy, precision, sensitivity, specificity, proficiency testing, correlation, reference range (also called normal values), critical values (also called panic values), Limit of Detection (LoD), Limit of Quantitation (LoQ), ruggedness, robustness, linearity, Analytic Measurement Range (AMR), controls, calibration, false positive, and false negative as applied to the clinical lab and diagnostic lab testing. This book includes

information on how to start a new lab, how to verify a Laboratory Developed Test (LDT) or off label test, qualitative analyzer verification, how to make an Individualized Quality Control Plan (IQCP), how to perform voluntary closure of a laboratory. information on how to helm a hospital lab through a major disaster, and information on Lab Director liability (malpractice) insurance, recommendations on how to validate microbiology organism identification and antibiotic sensitivity testing. This book has been updated and is current for 2020.

Advances in Medical Imaging, Detection, and Diagnosis Raj Bawa, Gerald F. Audette, S. R.

Bawa, Bela Patel, Bruce D. Johnson, Rajeev

Khanna, 2023-10-31 Medical care is the most critical issue of our time and will be so for the foreseeable future. In this regard, 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 reference resources that highlight 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 important topics in a focused area of medicine—all accomplished in a user-friendly yet interconnected format. This volume addresses advances in medical imaging, detection, and diagnostic technologies. Technological innovations in these sectors of medicine continue to provide for safer, more accurate, and faster diagnosis for patients. This translates into superior prognosis and better

patient compliance, while reducing morbidity and mortality. Hence, it is imperative that practitioners stay current with these latest advances to provide the best care for nursing and clinical practices. While recognizing how expansive and multifaceted these areas of medicine are, *Advances in Medical Imaging, Detection, and Diagnosis* addresses crucial recent progress, integrating the knowledge and experience of experts from academia and the clinic. The multidisciplinary approach reflected 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.

Mass Spectrometry for the Clinical Laboratory
Hari Nair, William Clarke, 2016-11-02
Mass Spectrometry for the Clinical Laboratory is an accessible guide to mass spectrometry and the development, validation, and implementation of the most common assays seen in clinical labs. It provides readers with practical examples for assay development, and experimental design for validation to meet CLIA requirements, appropriate interference testing, measuring, validation of ion suppression/matrix effects, and quality control. These tools offer guidance on what type of instrumentation is optimal for each assay, what options are available, and the pros and cons of each. Readers will find a full set of tools that

are either directly related to the assay they want to adopt or for an analogous assay they could use as an example. Written by expert users of the most common assays found in a clinical laboratory (clinical chemists, toxicologists, and clinical pathologists practicing mass spectrometry), the book lays out how experts in the field have chosen their mass spectrometers, purchased, installed, validated, and brought them on line for routine testing. The early chapters of the book covers what the practitioners have learned from years of experience, the challenges they have faced, and their recommendations on how to build and validate assays to avoid problems. These chapters also include recommendations for maintaining continuity of quality in testing. The later parts of the book focuses on specific types of assays (therapeutic drugs, Vitamin D, hormones, etc.). Each chapter in this section has been written by an expert practitioner of an assay that is currently running in his or her clinical lab. Provides readers with the keys to choosing, installing, and validating a mass spectrometry platform Offers tools to evaluate, validate, and troubleshoot the most common assays seen in clinical pathology labs Explains validation, ion suppression, interference testing, and quality control design to the detail that is required for implementation in the lab

Spring Viremia of Carp W. Ahne, 1977

Laboratory Tests and Diagnostic Procedures

Cynthia C. Chernecky, Barbara J. Berger, 2013 Look no further for quick, complete answers to questions such as which laboratory tests to order or what the results might mean. Laboratory Tests

And Diagnostic Procedures, 5th Edition covers more tests than any other reference of its kind, with over 900 lab tests and diagnostic procedures in all. In Part I, you'll find a unique, alphabetical list of hundreds of diseases, conditions, and symptoms, including the tests and procedures most commonly used to confirm or rule out a suspected diagnosis. Part II presents key information on virtually every laboratory and diagnostic test available. All test entries are up-to-date, concise, complete, and consistently presented, making this resource the perfect choice for students or practitioners who need fast, accurate information on diagnostic tests.--Publisher's website.

Personalizing Precision Medicine Kristin Ciriello Pothier, 2017-08-30 The author uses decades of experience and interviews with experts in precision medicine to explain past, present, and future of precision medicine. She reviews the full continuum of personalizing precision medicine, including diagnostics, therapeutics, big data, supportive care, regulation, and reimbursement and innovation in precision medicine worldwide. • Combines a unique cross section of history, current technologies, and future directions for how precision medicine has and will affect people worldwide • Reviews precision medicine around the world, including the US, China, Japan, the Middle East, India, Europe, and Latin America • Discusses a number of diseases areas – cancer, cardiovascular, neurodegenerative, infectious disease, pain, immunology, rare diseases • Includes information and quotes from

over 100 interviews with key industry experts in biotech, pharma, informatics, diagnostics, health providers, advocacy groups, and more. • Includes stories illustrating current issues and future promises in precision medicine for a human touch

D&B Healthcare Reference Book, 1999

Interpretation of Equine Laboratory Diagnostics

Nicola Pusterla, Jill Higgins, 2017-10-05

Interpretation of Equine Laboratory Diagnostics offers a comprehensive approach to equine laboratory diagnostics, including hematology, clinical chemistry, serology, body fluid analysis, microbiology, clinical parasitology, endocrinology, immunology, and molecular diagnostics. Offers a practical resource for the accurate interpretation of laboratory results, with examples showing real-world applications. Covers hematology, clinical chemistry, serology, body fluid analysis, microbiology, clinical parasitology, endocrinology, immunology, and molecular diagnostics. Introduces the underlying principles of laboratory diagnostics. Provides clinically oriented guidance on performing and interpreting laboratory tests. Presents a complete reference to establish and new diagnostic procedures. Offers a practical resource for the accurate interpretation of laboratory results, with examples showing real-world applications. Covers hematology, clinical chemistry, serology, body fluid analysis, microbiology, clinical parasitology, endocrinology, immunology, and molecular diagnostics. Introduces the underlying principles of laboratory diagnostics. Provides clinically oriented guidance on performing and

interpreting laboratory tests Presents a complete reference to established and new diagnostic procedures

Artificial Intelligence Applications In Human Pathology Ralf Huss, Michael Grunkin, 2022-03-04

Artificial Intelligence Applications in Human Pathology deals with the latest topics in biomedical research and clinical cancer diagnostics. With chapters provided by true international experts in the field, this book gives real examples of the implementation of AI and machine learning in human pathology. Advances in machine learning and AI in general have propelled computational and general pathology research. Today, computer systems approach the diagnostic levels achieved by humans for certain well-defined tasks in pathology. At the same time, pathologists are faced with an increased workload both quantitatively (numbers of cases) and qualitatively (the amount of work per case, with increasing treatment options and the type of data delivered by pathologists also expected to become more fine-grained). AI will support and leverage mathematical tools and implement data-driven methods as a center for data interpretation in modern tissue diagnosis and pathology. Digital or computational pathology will also foster the training of future computational pathologists, those with both pathology and non-pathology backgrounds, who will eventually decide that AI-based pathology will serve as an indispensable hub for data-related research in a global health care system. Some of the specific topics explored within include an introduction to DL as applied to

Pathology, Standardized Tissue Sampling for Automated Analysis, integrating Computational Pathology into Histopathology workflows. Readers will also find examples of specific techniques applied to specific diseases that will aid their research and treatments including but not limited to; Tissue Cartography for Colorectal Cancer, Ki-67 Measurements in Breast Cancer, and Light-Sheet Microscopy as applied to Virtual Histology. The key role for pathologists in tissue diagnostics will prevail and even expand through interdisciplinary work and the intuitive use of an advanced and interoperating (AI-supported) pathology workflow delivering novel and complex features that will serve the understanding of individual diseases and of course the patient.

Clinical Laboratory Medicine Kenneth D. McClatchey, 2002 This thoroughly updated Second Edition of Clinical Laboratory Medicine provides the most complete, current, and clinically oriented information in the field. The text features over 70 chapters--seven new to this edition, including medical laboratory ethics, point-of-care testing, bone marrow transplantation, and specimen testing--providing comprehensive coverage of contemporary laboratory medicine. Sections on molecular diagnostics, cytogenetics, and laboratory management plus the emphasis on interpretation and clinical significance of laboratory tests (why a test or series of tests is being done and what the results mean for the patient) make this a valuable resource for practicing pathologists, residents, fellows, and laboratorians. Includes over 800

illustrations, 353 in full color and 270 new to this edition. Includes a Self-Assessment and Review book.

Mosby's Diagnostic and Laboratory Test Reference

Kathleen Deska Pagana, Timothy James Pagana, Theresa Noel Pagana, 2019 Get the latest research and easy access to today's most important diagnostic and lab tests! Known for its accuracy, currency, and clear, easy-to-use format, Mosby's Diagnostic & Laboratory Test Reference 14th Edition features concise test entries that are arranged alphabetically and reflect the latest in diagnostic and lab testing and research. This new edition adds 15 tests with vital information such as alternate or abbreviated test names, test explanation, normal and abnormal findings, possible critical values, and guidelines to patient care before, during, and after the test. Plus, all related tests are cross-referenced throughout the book to simplify lookup. A compact size, durable cover, and A-to-Z thumb tabs make this market-leading book ideal for everyday use in the classroom and on the job! Alphabetically organized tests offer quick reference with A-to-Z thumb tabs, so you will never have to search for a test by having to first determine its correct category or body system. Normal findings for adult, elderly, and pediatric patients are included where applicable. Abnormal findings are highlighted with directional arrows to show increased or decreased test results. Convenient appendix lists tests by body system and test type, making it easy to quickly locate related studies. A durable cover with rounded edges helps prevent

the book from being damaged and makes it easier to handle. Each test entry begins on a new page, making tests easy to find. Possible critical values are highlighted to show situations requiring immediate intervention. Icon for patient teaching-related care indicates information that should be shared with patients and their families. User's Guide to Test Preparation and Performance provides an overview and guidelines for each type of laboratory test and diagnostic procedure, so you can minimize worry about having to repeat a test due to an error. Abbreviations for tests are listed in the back of the book, and symbols and units of measurement are listed in an appendix. Cross-referencing of related tests makes them easy to find. NEW! Test entries include the latest diagnostic tests and laboratory procedures, featuring 10 new monographs and 15 additional tests. NEW! Content reflects the latest research on the diagnostic values of results, accuracy of testing, and patient care and education for each test. NEW! Common Reference Ranges section added to the Inside Front Cover material.

Immerse yourself in heartwarming tales of love and emotion with Explore Love with is touching creation, Tender Moments: **Precision Diagnostic Lab**. This emotionally charged ebook, available for download in a PDF format (PDF Size: *), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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gmaj7 xxx gm7
amaj7 am7 37
xxx bmaj7 brn7
xxx cm xxx
cmaj7 cm7 xxx
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dm7 em emaj7
em7 ukulele
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bmaj7 bbmaj7
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most of the
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songs adapted
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are found on
the right side
of the circle
in the keys of
c g and d we ll
show you how to
play the chords
found in those
key signatures
but first let s
talk a little
bit about how
to build chords
and how keys
work in music
building chords
with music
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represent the
most widely
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these chords
but there are
other options
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that can be
used for each
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concert and
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go here and for
left handed
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midi file so
you can hear
the chord as
well as see it
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selecting the
root of the
chord from the
top menu then
select the
chord extension
from the side
menu
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of 21 of the
most common
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