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Contemporary Practice in Clinical Chemistry - Christopher P. Price - 1999

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Henrietta's family did not learn of her "immortality" until more than twenty years after her death, when scientists investigating HeLa began using her husband and children as subjects for experimentation. These experiments were not approved by an institutional review board, and the family was not informed of the research. The book covers in-depth knowledge of disease biomarkers that can be exploited for designing and developing biomarkers and methodology for their detection, plus transferring the developed system to clinical application by miniaturization and required integration with microfluidic systems. Covers design and development of advanced platforms for rapid diagnosis of cancerous biomarkers. Takes a multidisciplinary approach to sensitive transducers development, nano-enabled advanced imaging, miniaturized analytical systems, and device packaging for point-of-care applications. Offers an insight into how to develop cost-effective diagnostics for early detection of cancer.

Biosensor Based Advanced Cancer Diagnostics - Biju Khan - 2021-08-25

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A Practical Guide to Global Point-of-Care Testing - Mark Shepard OAM - 2016-11-01

Point-of-care testing (POCT) refers to pathology testing performed in a clinical setting at the time of patient consultation, generating a rapid test result that enables informed and timely clinical action to be taken on patient care. It offers patients greater convenience and access to health services and helps to improve clinical outcomes. POCT also provides innovative solutions for the detection and management of chronic, acute and infectious diseases, in settings including family practices, Indigenous medical services, community health facilities, rural and remote areas and in developing countries, where health-care services are often geographically isolated from the nearest pathology laboratory. A Practical Guide to Global Point-of-Care Testing shows health professionals how to set up and manage POCT services under a quality-assured, sustainable, clinically and culturally effective framework, as well as understand the wide global scope and clinical applications of POCT. The book is divided into three major themes: the management of POCT services, a global perspective on the clinical use of POCT, and POCT for specific settings.

Chapters within each theme are written by experts and explore wide-ranging topics such as selecting and evaluating devices, POCT for diabetes, coagulation disorders, HIV, malaria and Ebola, and the use of POCT for disaster management and in extreme environments. Figures are included throughout to illustrate the concepts, principles and practices of point-of-care testing and health service management.


This book describes recent advances in biomarkers, instrumentation and analysis methodology for identifying drug misuse. It is aimed at healthcare professionals, academics and postgraduates. This book describes recent advances in biomarkers, instrumentation and analysis methodology for identifying drug misuse. It is aimed at healthcare professionals, academics and postgraduates.

Point-of-Care Technologies Enabling Next-Generation Healthcare Monitoring and Management - Sandeep Kumar Vashist - 2019-02-20

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SARS-CoV-2. Shortly after being inaugurated as the 46th President of the United States, Joe Biden and his administration released this 200-page guide detailing
President Biden’s administration with regards to the coronavirus pandemic: 1. Restore trust with the American people. 2. Mount a safe, effective, and
and comprehensive vaccination campaign. To mitigate spread through expanding masking, testing, diatsu, treatments, health care workforce, and clear health
directions. 3. Mitigate stress through expanding masking, testing, and contact tracing. 4. Protect those most at risk and advance equity, including across racial, ethnic and rural/urban lines. 5. Restore U.S. leadership globally and build better preparedness for future threats. 6. Restore American values by promoting transparency, accountability, and concrete steps to achieve each goal. Also included is the full text of the many Executive Orders that will be issued by President Biden to achieve each of these goals.

National Strategy for the COVID-19 Response and Pandemic Preparedness: The National Strategy for the COVID-19 Response and Pandemic Preparedness breaks down seven crucial goals of President Joe Biden’s administration with regards to the coronavirus pandemic. 1. Restore trust with the American people. 2. Mount a safe, effective, and comprehensive vaccination campaign. 3. Mitigate spread through expanding masking, testing, diatsu, treatments, health care workforce, and clear health direction. 4. Protect those most at risk and advance equity, including across racial, ethnic and rural/urban lines. 5. Restore U.S. leadership globally and build better preparedness for future threats. 6. Restore American values by promoting transparency, accountability, and concrete steps to achieve each goal. Also included is the full text of the many Executive Orders that will be issued by President Biden to achieve each of these goals.

Advances in Point-of-care Biomedical Sensors Technologies for Cancer Diagnosis - Prajakta Chandra - 2017-12-03

This book presents recent research on cancer detection methods based on nanobiomarkers which offer ultrasonic point-of-care diagnosis. Several methods for diagnosing cancer have been developed, and the emphasis of this book is on currently developing diagnostic tests. The book provides an up-to-date summary of the detection methods that can be adapted to bring cancer detection and diagnostics to more remote settings around the globe. The book provides students, researchers, and clinicians alike a comprehensive overview of interdisciplinary approaches to cancer diagnosis.

Building Virtual Pentesting Labs for Advanced Penetration Testing - Kevin Cardwell - 2014-04-20

This book helps you create virtual environments for advanced penetration testing, enabling you to build a multi-layered architecture to include firewalls, DIDS/IP, web application firewalls, and endpoint protection, which is essential in the penetration testing world. If you are a penetration tester, you'll find it helpful to integrate different testing skills by building virtual pentesting labs in varying industry scenarios, as this is the book for you. This book is ideal if you wish to build and enhance your existing pentesting methods and skills. Basic knowledge of network security features is expected along with web application testing experience.

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Key Findings: Micro and Nano Technologies for Point-of-Care Testing - Beata Langlands - 2012-09-20

Micro and Nanotechnologies are set to transform point-of-care diagnostics. The choice of testing methods, advances in lab-on-a-chip microfluidic methodologies, improvements in detection technologies and novel biosensors are leading the way.


This volume is the first comprehensive clinical practice guidelines in the rapidly growing field of point-of-care testing. Written by the experts and innovators in point-of-care technology, this book presents practical guidelines in planning and implementing the most reliable, clinically useful, and cost-effective point-of-care testing protocols based on biomedical sensors, microfluidics, and integrated systems engineering. It also discusses recent developments and diagnostics tests that can be used to develop high-throughput screening tests that can be deployed in the field. The book provides students, researchers, and clinicians alike a comprehensive overview of interdisciplinary approaches to cancer diagnosis.

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