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*Advances in Computing and Intelligent Systems* - This book gathers selected papers presented at  
Harish Sharma 2020-01-03 the International Conference on Advancements

in Computing and Management (ICACM 2019). Discussing current research in the field of artificial intelligence and machine learning, cloud computing, recent trends in security, natural language processing and machine translation, parallel and distributed algorithms, as well as pattern recognition and analysis, it is a valuable resource for academics, practitioners in industry and decision-makers.

*Technological Advancements in Library Service Innovation* - Lamba, Manika 2022-02-04

Innovations in library services are rapidly developing within numerous areas including building design, program and event planning, patron experience and engagement, literacy program development, and administration and management. To ensure these changes are implemented and considered successfully, a closer look at the challenges, trends, and practices of these innovations is crucial. *Technological Advancements in Library Service Innovation* examines the recent activities of

successful and groundbreaking research and practices around the world surrounding library service innovation and presents various forward-thinking initiatives. It also provides an overview of libraries' successful experiences, identifies emerging global themes and trends, and offers guidance to library practitioners on how to pursue the recent trends in their own library environment. Covering topics such as technology adoption and organizational structures, this book is ideal for library professionals, researchers, academicians, instructors, and students.

**Proceedings of Integrated Intelligence Enable Networks and Computing** - Krishan Kant Singh Mer 2021-04-23

This book presents best selected research papers presented at the First International Conference on Integrated Intelligence Enable Networks and Computing (IIENC 2020), held from May 25 to May 27, 2020, at the Institute of Technology, Gopeshwar, India (Government

Institute of Uttarakhand Government and affiliated to Uttarakhand Technical University). The book includes papers in the field of intelligent computing. The book covers the areas of machine learning and robotics, signal processing and Internet of things, big data and renewable energy sources.

**Endophytes for a Growing World** - Trevor R. Hodkinson 2019-03-21

Discusses the role of endophytes in food security, forestry and health. It outlines their general biology, spanning theory to practice.

**Textbook of Clinical Neuropsychiatry, Second Edition** - David Moore 2008-04-25

Textbook of Clinical Neuropsychiatry provides a comprehensive, encyclopedic and up to date coverage of the complete range of neuropsychiatric disorders. The text is clearly written and well organized, utilizing a consistent and easy to read format throughout. Part I describes the diagnostic assessment of patients and details the interview, mental s

**Computer Vision and Robotics** - Jagdish Chand Bansal 2022-03-14

This book consists of a collection of the high-quality research articles in the field of computer vision and robotics which are presented in the International Conference on Computer Vision and Robotics (CVR 2021), organized by BBD University Lucknow, India, during 7-8 August 2021. The book discusses applications of computer vision and robotics in the fields like medical science, defence, and smart city planning. The book presents recent works from researchers, academicians, industry, and policy makers.

Disease Control Priorities, Third Edition (Volume 4) - Vikram Patel 2016-03-10

Mental, neurological, and substance use disorders are common, highly disabling, and associated with significant premature mortality. The impact of these disorders on the social and economic well-being of individuals, families, and societies is large, growing, and underestimated.

Despite this burden, these disorders have been systematically neglected, particularly in low- and middle-income countries, with pitifully small contributions to scaling up cost-effective prevention and treatment strategies.

Systematically compiling the substantial existing knowledge to address this inequity is the central goal of this volume. This evidence-base can help policy makers in resource-constrained settings as they prioritize programs and interventions to address these disorders.

**Plant Abiotic Stress Tolerance** - Mirza Hasanuzzaman 2019-04-04

Plants have to manage a series of environmental stresses throughout their entire lifespan. Among these, abiotic stress is the most detrimental; one that is responsible for nearly 50% of crop yield reduction and appears to be a potential threat to global food security in coming decades. Plant growth and development reduces drastically due to adverse effects of abiotic stresses. It has been estimated that crop can exhibit only 30% of their

genetic potentiality under abiotic stress condition. So, this is a fundamental need to understand the stress responses to facilitate breeders to develop stress resistant and stress tolerant cultivars along with good management practices to withstand abiotic stresses. Also, a holistic approach to understanding the molecular and biochemical interactions of plants is important to implement the knowledge of resistance mechanisms under abiotic stresses. Agronomic practices like selecting cultivars that is tolerant to wide range of climatic condition, planting date, irrigation scheduling, fertilizer management could be some of the effective short-term adaptive tools to fight against abiotic stresses. In addition, “system biology” and “omics approaches” in recent studies offer a long-term opportunity at the molecular level in dealing with abiotic stresses. The genetic approach, for example, selection and identification of major conditioning genes by linkage mapping and quantitative trait loci

(QTL), production of mutant genes and transgenic introduction of novel genes, has imparted some tolerant characteristics in crop varieties from their wild ancestors. Recently research has revealed the interactions between micro-RNAs (miRNAs) and plant stress responses exposed to salinity, freezing stress and dehydration. Accordingly transgenic approaches to generate stress-tolerant plant are one of the most interesting researches to date. This book presents the recent development of agronomic and molecular approaches in conferring plant abiotic stress tolerance in an organized way. The present volume will be of great interest among research students and teaching community, and can also be used as reference material by professional researchers.

### **Sentiment Analysis and Opinion Mining -**

Bing Liu 2012

Sentiment analysis and opinion mining is the field of study that analyzes people's opinions, sentiments, evaluations, attitudes, and emotions

from written language. It is one of the most active research areas in natural language processing and is also widely studied in data mining, Web mining, and text mining. In fact, this research has spread outside of computer science to the management sciences and social sciences due to its importance to business and society as a whole. The growing importance of sentiment analysis coincides with the growth of social media such as reviews, forum discussions, blogs, micro-blogs, Twitter, and social networks. For the first time in human history, we now have a huge volume of opinionated data recorded in digital form for analysis. Sentiment analysis systems are being applied in almost every business and social domain because opinions are central to almost all human activities and are key influencers of our behaviors. Our beliefs and perceptions of reality, and the choices we make, are largely conditioned on how others see and evaluate the world. For this reason, when we need to make a decision we often seek out the

opinions of others. This is true not only for individuals but also for organizations. This book is a comprehensive introductory and survey text. It covers all important topics and the latest developments in the field with over 400 references. It is suitable for students, researchers and practitioners who are interested in social media analysis in general and sentiment analysis in particular. Lecturers can readily use it in class for courses on natural language processing, social media analysis, text mining, and data mining. Lecture slides are also available online. Table of Contents: Preface / Sentiment Analysis: A Fascinating Problem / The Problem of Sentiment Analysis / Document Sentiment Classification / Sentence Subjectivity and Sentiment Classification / Aspect-Based Sentiment Analysis / Sentiment Lexicon Generation / Opinion Summarization / Analysis of Comparative Opinions / Opinion Search and Retrieval / Opinion Spam Detection / Quality of Reviews / Concluding Remarks / Bibliography /

Author Biography

*MGMT 9 -*

Veterinary Herbal Medicine - Susan G. Wynn  
2006-11-29

This full-color reference offers practical, evidence-based guidance on using more than 120 medicinal plants, including how to formulate herbal remedies to treat common disease conditions. A body-systems based review explores herbal medicine in context, offering information on toxicology, drug interactions, quality control, and other key topics. More than 120 herbal monographs provide quick access to information on the historical use of the herb in humans and animals, supporting studies, and dosing information. Includes special dosing, pharmacokinetics, and regulatory considerations when using herbs for horses and farm animals. Expanded pharmacology and toxicology chapters provide thorough information on the chemical basis of herbal medicine. Explores the

evolutionary relationship between plants and mammals, which is the basis for understanding the unique physiologic effects of herbs. Includes a body systems review of herbal remedies for common disease conditions in both large and small animals. Discusses special considerations for the scientific research of herbs, including complex and individualized interventions that may require special design and nontraditional outcome goals.

*Polymeric Materials* - Marta Fernández-García  
2019-05-28

This book collects the articles published in the Special Issue "Polymeric Materials: Surfaces, Interfaces and Bioapplications". It shows the advances in polymeric materials, which have tremendous applications in agricultural films, food packaging, dental restoration, antimicrobial systems, and tissue engineering. These polymeric materials are presented as films, coatings, particles, fibers, hydrogels, or networks. The potential to modify and modulate

their surfaces or their content by different techniques, such as click chemistry, ozonation, breath figures, wrinkle formation, or electrospray, are also explained, taking into account the relationship between the structure and properties in the final application. Moreover, new trends in the development of such materials are presented, using more environmental friendly and safe methods, which, at the same time, have a high impact on our society.

**General and Industrial Management** - Henri Fayol 2016-10-13

"Management plays a very important part in the government of undertakings: of all undertakings, large or small, industrial, commercial, political, religious or any other. I intend to set forth my ideas here on the way in which that part should be played." Part I. Necessity and Possibility of Teaching Management Chapter I. Definition of Management Chapter II. Relative Importance of the Various Abilities Which Constitute the Value

of Personnel of Concerns Chapter III. Need for and Possibility of Management Teaching Part II. Principles and Elements of Management Chapter IV. General Principles of Management Chapter V. Elements of Management

*Postharvest Management Approaches for Maintaining Quality of Fresh Produce* -

Mohammed Wasim Siddiqui 2016-02-24

The volume presents existing and novel management approaches that are in use or have a great potential to be used to maintain the postharvest quality of fresh produce in terms of microbiological safety, nutrition, and sensory quality. In comparison to traditional synthetic chemicals, these eco-friendly molecules are equally effective with respect to slowing the physiological and biochemical changes in harvested produce. Application of terpenic compounds, phenolic compounds, salicylic acid, methyl jasmonates, hydrogen peroxide, ethanol, sulphur compounds, polyamines, plant growth regulators, active carbohydrates, ozone, hexanal

and nitric oxide have been proven effective in minimizing storage disorders like chilling injury, scald, fungal diseases like stem-end rot, blue mould rot, green mould rot, anthracnose, regulation of ripening and senescence, etc. This book will be a standard reference work for the management of shelf life in the fresh produce industry.

**A Compendium of Essays on Alternative Therapy** - Arup Bhattacharya 2012-01-20

A Compendium of Essays on Alternative Therapy is aimed at both conventional and alternate therapy practitioners, besides serving as an educational tool for students and lay persons on the progress made in the field. While this resource is not all-inclusive, it does reflect the current theories from different international experts in the field. This will hopefully stimulate more research initiatives, funding, and critical insight in the already increasing demand for alternate therapies that has been evidenced worldwide.

Handbook of Solid Phase Microextraction -  
Janusz Pawliszyn 2011-11-29

The relatively new technique of solid phase microextraction (SPME) is an important tool to prepare samples both in the lab and on-site. SPME is a "green" technology because it eliminates organic solvents from analytical laboratory and can be used in environmental, food and fragrance, and forensic and drug analysis. This handbook offers a thorough background of the theory and practical implementation of SPME. SPME protocols are presented outlining each stage of the method and providing useful tips and potential pitfalls. In addition, devices and fiber coatings, automated SPME systems, SPME method development, and In Vivo applications are discussed. This handbook is essential for its discussion of the latest SPME developments as well as its in depth information on the history, theory, and practical application of the method. Practical application of Solid Phase

Microextraction methods including detailed steps Provides history of extraction methods to better understand the process Suitable for all levels, from beginning student to experienced practitioner

Bioinformatics and Drug Discovery - Richard S. Larson 2016-08-23

Recent advances in drug discovery have been rapid. The second edition of Bioinformatics and Drug Discovery has been completely updated to include topics that range from new technologies in target identification, genomic analysis, cheminformatics, protein analysis, and network or pathway analysis. Each chapter provides an extended introduction that describes the theory and application of the technology. In the second part of each chapter, detailed procedures related to the use of these technologies and software have been incorporated. Written in the highly successful Methods in Molecular Biology™ series format, the chapters include the kind of detailed description and

implementation advice that is crucial for getting optimal results in the laboratory. Thorough and intuitive, Bioinformatics and Drug Discovery, Second Edition seeks to aid scientists in the further study of the rapidly expanding field of drug discovery.

Principles of Management - Prakash Chandra Tripathi 2012

**Computing, Communication and Signal Processing** - Brijesh Iyer 2018-09-14

This book highlights cutting-edge research on various aspects of human-computer interaction (HCI). It includes selected research papers presented at the Third International Conference on Computing, Communication and Signal Processing (ICCASP 2018), organized by Dr. Babasaheb Ambedkar Technological University in Lonere-Raigad, India on January 26-27, 2018. It covers pioneering topics in the field of computer, electrical, and electronics engineering, e.g. signal and image processing,

RF and microwave engineering, and emerging technologies such as IoT, cloud computing, HCI, and green computing. As such, the book offers a valuable guide for all scientists, engineers and research students in the areas of engineering and technology.

**Agricultural Finance and Management** - S. Subba Reddy 1996

**Forensic Pathology, 2Ed** - Bernard Knight 1996-08-02

An updated and revised edition of the major reference work in forensic pathology, this will be an important purchase for all in the field. 'Forensic Pathology' offers a thorough, detailed guide to the performance and interpretation of post-mortem examinations conducted for the police and other legal authorities.

Florida Ethnobotany - Daniel F. Austin 2004-11-29

Winner of the 2005 Klinger Book Award  
Presented by The Society for Economic Botany.

Florida Ethnobotany provides a cross-cultural examination of how the states native plants have been used by its various peoples. This compilation includes common names of plants in their historical sequence, weaving together what was formerly esoteri

Glaucoma - John C. Morrison 2011-01-01

Rapid advances in identifying the epidemiology, physiology, and genetics of glaucoma have led to dramatic developments in diagnostic and therapeutic techniques. This new text offers you concise coverage of every major clinical breakthrough, as well as the basic science needed to thoroughly understand all manifestations of the disease. It is written by a who's who of international experts, who share their tips and techniques in every information-filled chapter. The book begins with important new details on etiology, genetics, and epidemiology, and then covers intraocular pressure, the optic nerve, different types of glaucoma, and various treatment strategies.

More than 270 color illustrations augment the text and clarify all concepts. Benefit from these special features: Key discussions of the pathophysiology of the disease, as well as the pharmacologic mechanisms of different drugs and their efficacy Valuable diagnostic decision diagrams that lead to quick and accurate decisions Helpful pearls, pitfalls, and special considerations that offer guidance in specific situations and show how to avoid problems and complications Nearly 300 superb, full-color illustrations that depict the distinguishing features of each entity Inclusion of such cutting-edge material as neuroprotection, and several other new topics Whether you are an experienced practitioner needing a quick review or a resident learning a topic for the first time, Glaucoma: Science and Practice is packed with essential clinical and scientific information. Here is the timely, current, and practical resource you need to understand the complexities of glaucoma and provide optimal patient care.

Nanopesticides - Leonardo F. Fraceto  
2020-07-06

This book explores the development of nanopesticides and tests of their biological activity against target organisms. It also covers the effects of nanopesticides in the aquatic and terrestrial environments, along with related subjects including fate, behaviour, mechanisms of action and toxicity. Moreover, the book discusses the potential risks of nanopesticides for non-target organisms, as well as regulatory issues and future perspectives.

**Controlled Substance Management in Chronic Pain** - Peter S. Staats 2016-05-28

This comprehensive guide covers prescribing controlled substances for patients with acute or chronic pain and provides a balanced discussion on appropriate treatment, addiction, safety and complications. Chapters feature evidence-based strategies and clinical modalities that address diagnostic challenges, treatment guidance, alternatives to opioid management and the

significant legal risks within the current regulatory environment. Authored by leaders in pain medicine, physicians and appropriate health care professionals will find *Controlled Substance Management in Chronic Pain* to be an indispensable resource.

**MGMT** - Alan McWilliams 2014

A new approach to learning the principles of management, *MGMT 2* is the second Asia Pacific edition of a proven, innovative solution to enhance the learning experience. Concise yet complete coverage supported by a suite of online learning aids equips students with the tools required to successfully undertake an introductory management course. Paving a new way to both teach and learn, *MGMT 2* is designed to truly connect with today's busy, tech-savvy student. Students have access to online interactive quizzing, videos, podcasts, flashcards, case studies, games and more. An accessible, easy-to-read text along with tear out review cards completes a package which helps

students to learn important concepts faster. MGMT 2 delivers a fresh approach to give students what they need and want in a text.

**Nontraditional Careers for Chemists** - Lisa M. Balbes 2007

"Contrary to what some people think, an education and background in chemistry prepares you for much more than just a laboratory career. The broad science education, logical and analytical thinking, research methods, and other professional skills are of value to a wide variety of employers, and are essential for a plethora of positions. In addition, those who are interested in chemistry tend to have some similar personality characteristics, which lead to success in certain types of positions. Realizing these two things opens up a world of possibilities for the professional chemist, and allows the selection of a career path that truly is the best fit for your own personal skills, abilities, and interests." Each chapter in this book provides background information on a nontraditional field

and a variety of positions within that field, including typical tasks, education or training requirements, and personal characteristics that contribute to a successful career. Each chapter also contains detailed profiles of several chemists who have achieved success and personal satisfaction in various types of positions in that field. These interesting and varied career histories explain how these chemists got where they are, details what motivates them, and gives advice for others considering the same path, in both the short and long term." "Specific career fields profiled include communication, chemical information, patents, sales and marketing, business development, regulatory affairs, public policy, safety, human resources, and computers, among others. Along the way you will learn how to seek out and evaluate new career options, so even if none of the careers profiled is right for you, you can continue the exploration on your own until you find the one that is." --Back cover. *Principles of Forensic Medicine & Toxicology* -

Rajesh Bardale 2011-10  
Comprehensive guide to forensic medicine and toxicology, with almost 1000 images and illustrations.

*Cumulated Index Medicus* - 1980

**Principles of Addiction Medicine** - Richard K. Ries 2009

This respected text from the American Society of Addiction Medicine is valuable for all physicians and mental-health personnel who specialize in addiction medicine and who treat patients with addiction disorders. The chapters blend scientific principles underlying addiction with the practical essentials of clinical addiction medicine. Many of the contributors are affiliated with leading government agencies that study addiction and its science, such as the National Institute on Alcohol Abuse and Alcoholism and the National Institute on Drug Abuse. The book will appeal to a wide and interdisciplinary range of professionals, especially those with interest or

duties relating to addiction-related disorders, and in particular physicians seeking certification status via either the American Board of Addiction Medicine or the American Board of Psychiatry and Neurology. A companion Website will offer the fully searchable text.

**Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies** - Vinod Kumar

2020-12-05

Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies has been designed to bind novel knowledge of wastewater pollution-induced impacts on various aspects of our environment. The book also contains novel methods and tools for the monitoring and treatment of produced wastewater.

**Sustainable Horticultural Systems** - Dilip Nandwani 2014-10-14

Sustainable horticulture is gaining increasing attention in the field of agriculture as demand

for the food production rises to the world community. Sustainable horticultural systems are based on ecological principles to farm, optimizes pest and disease management approaches through environmentally friendly and renewable strategies in production agriculture. It is a discipline that addresses current issues such as food security, water pollution, soil health, pest control, and biodiversity depletion. Novel, environmentally-friendly solutions are proposed based on integrated knowledge from sciences as diverse as agronomy, soil science, entomology, ecology, chemistry and food sciences. Sustainable horticulture interprets methods and processes in the farming system to the global level. For that, horticulturists use the system approach that involves studying components and interactions of a whole system to address scientific, economic and social issues. In that respect, sustainable horticulture is not a classical, narrow science. Instead of solving problems using the classical

painkiller approach that treats only negative impacts, sustainable horticulture treats problem sources.

**Handbook of Vegetables and Vegetable Processing** - Muhammad Siddiq 2018-02-23  
Handbook of Vegetables and Vegetable Processing, Second Edition is the most comprehensive guide on vegetable technology for processors, producers, and users of vegetables in food manufacturing. This complete handbook contains 42 chapters across two volumes, contributed by field experts from across the world. It provides contemporary information that brings together current knowledge and practices in the value-chain of vegetables from production through consumption. The book is unique in the sense that it includes coverage of production and postharvest technologies, innovative processing technologies, packaging, and quality management. Handbook of Vegetables and Vegetable Processing, Second Edition covers

recent developments in the areas of vegetable breeding and production, postharvest physiology and storage, packaging and shelf life extension, and traditional and novel processing technologies (high-pressure processing, pulse-electric field, membrane separation, and ohmic heating). It also offers in-depth coverage of processing, packaging, and the nutritional quality of vegetables as well as information on a broader spectrum of vegetable production and processing science and technology. Coverage includes biology and classification, physiology, biochemistry, flavor and sensory properties, microbial safety and HACCP principles, nutrient and bioactive properties In-depth descriptions of key processes including, minimal processing, freezing, pasteurization and aseptic processing, fermentation, drying, packaging, and application of new technologies Entire chapters devoted to important aspects of over 20 major commercial vegetables including avocado, table olives, and textured vegetable proteins This important book

will appeal to anyone studying or involved in food technology, food science, food packaging, applied nutrition, biosystems and agricultural engineering, biotechnology, horticulture, food biochemistry, plant biology, and postharvest physiology.

### **Endocrine Disrupting Chemicals-induced Metabolic Disorders and Treatment**

**Strategies** - Muhammad Sajid Hamid Akash  
2020-08-04

This volume offers a detailed and comprehensive analysis of Endocrine Disrupting Chemicals (EDCs), covering their occurrence, exposure to humans and the mechanisms that lead to the parthogenesis of EDCs-induced metabolic disorders. The book is divided into three parts. Part I describes the physiology of the human endocrine system, with special emphasis on various types of metabolic disorders along with risk factors that are responsible for the development of these disorders. Part II addresses all aspects of EDCs, including their

role in the induction of various risk factors that are responsible for the development of metabolic disorders. Part III covers up-to-date environmental regulatory considerations and treatment strategies that have been adopted to cure and prevent EDCs-induced metabolic disorders. This section will primarily appeal to clinicians investigating the causes and treatment of metabolic disorders. The text will also be of interest to students and researchers in the fields of Environmental Pharmacology and Toxicology, Environmental Pollution, Pharmaceutical Biochemistry, Biotechnology, and Drug Metabolism/Pharmacokinetics.

### **Novel Biomarkers in Alzheimer's Disease -**

Chiara Villa 2021-02-05

Alzheimer's disease (AD) represents the most common form of dementia in the elderly population worldwide. AD is characterized by progressive neurodegeneration that leads to a gradual deterioration of memory and other cognitive functions. Given the global prevalence

and impact of AD, there is a critical need to establish biomarkers that can be used to detect AD in individuals before the onset of clinical signs and provide mitigating therapeutics. The aim of this Special Issue is to discuss the current knowledge as well as future perspectives on the role of biomarkers in the screening, diagnosis, treatment and follow-up of AD.

### **The Principles of Scientific Management -**

Frederick Winslow Taylor 1913

*Webs of Influence* - Nathalie Nahai 2012-12-14

As legions of businesses scramble to set up virtual-shop, we face an unprecedented level of competition to win over and keep new customers online. At the forefront of this battleground is your ability to connect with your customers, nurture your relationships and understand the psychology behind what makes them click. In this book *The Web Psychologist*, Nathalie Nahai, expertly draws from the worlds of psychology, neuroscience and behavioural economics to

bring you the latest developments, cutting edge techniques and fascinating insights that will lead to online success. Webs of Influence delivers the tools you need to develop a compelling, influential and profitable online strategy which will catapult your business to the next level - with dazzling results.

**Proceedings of the International Conference on Paradigms of Computing, Communication and Data Sciences** - Mayank Dave 2021-02-19

This book presents best selected papers presented at the International Conference on Paradigms of Computing, Communication and Data Sciences (PCCDS 2020), organized by National Institute of Technology, Kurukshetra, India, during 1-3 May 2020. It discusses high-quality and cutting-edge research in the areas of advanced computing, communications and data science techniques. The book is a collection of latest research articles in computation algorithm, communication and data sciences,

intertwined with each other for efficiency.

**Futuristic Communication and Network Technologies** - A. Sivasubramanian 2021-10-11

This book presents select proceedings of the International Conference on Futuristic Communication and Network Technologies (CFCNT 2020) conducted at Vellore Institute of Technology, Chennai. It covers various domains in communication engineering and networking technologies. This volume comprises of recent research in areas like optical communication, optical networks, optics and optical computing, emerging trends in photonics, MEMS and sensors, active and passive RF components and devices, antenna systems and applications, RF devices and antennas for microwave emerging technologies, wireless communication for future networks, signal and image processing, machine learning/AI for networks, internet of intelligent things, network security and blockchain technologies. This book will be useful for researchers, professionals, and engineers

working in the core areas of electronics and communication.

### **Pressure Ulcer Risk Assessment and Prevention: Comparative Effectiveness** - U.

S. Department of Health and Human Services  
2013-06-29

Pressure ulcers are defined by the National Pressure Ulcer Advisory Panel (NPUAP) as “localized injury to the skin and/or underlying tissue usually over a bony prominence, as a result of pressure, or pressure in combination with shear and/or friction.” A number of risk factors are associated with increased risk of pressure ulcer development, including older age, black race, lower body weight, physical or cognitive impairment, poor nutritional status, incontinence, and specific medical comorbidities that affect circulation such as diabetes or peripheral vascular disease. Pressure ulcers are often associated with pain and can contribute to decreased function or lead to complications such as infection. In some cases, pressure ulcers may

be difficult to successfully treat despite surgical and other invasive treatments. In the inpatient setting, pressure ulcers are associated with increased length of hospitalization and delayed return to function. In addition, the presence of pressure ulcers is associated with poorer general prognosis and may contribute to mortality risk. Recommended prevention strategies for pressure ulcers generally involve use of risk assessment tools to identify people at higher risk for developing ulcers in conjunction with interventions for preventing ulcers. A variety of diverse interventions are available for the prevention of pressure ulcers. Categories of preventive interventions include support surfaces (including mattresses, integrated bed systems, overlays, and cushions), repositioning, skin care (including lotions, dressings, and management of incontinence), and nutritional support. Each of these broad categories encompasses a variety of interventions. The purpose of this report is to review the

comparative clinical utility and diagnostic accuracy of risk-assessment instruments for evaluating risk of pressure ulcers and to evaluate the benefits and harms of preventive interventions for pressure ulcers in different settings and patient populations. The following Key Questions are the focus of this report: KQ1. For adults in various settings, is the use of any risk-assessment tool effective in reducing the incidence or severity of pressure ulcers compared with other risk-assessment tools, clinical judgment alone, and/or usual care? KQ1a. Do the effectiveness and comparative effectiveness of risk-assessment tools differ according to setting? KQ1b. Do the effectiveness and comparative effectiveness of risk-assessment tools differ according to patient characteristics and other known risk factors for pressure ulcers, such as nutritional status or incontinence? KQ2. How do various risk-assessment tools compare with one another in their ability to predict the incidence of pressure

ulcers? KQ2a. Does the predictive validity of various risk-assessment tools differ according to setting? KQ2b. Does the predictive validity of various risk-assessment tools differ according to patient characteristics? KQ3. In patients at increased risk of developing pressure ulcers, what are the effectiveness and comparative effectiveness of preventive interventions in reducing the incidence or severity of pressure ulcers? KQ3a. Do the effectiveness and comparative effectiveness of preventive interventions differ according to risk level as determined by different risk-assessment methods and/or by particular risk factors? KQ3b. Do the effectiveness and comparative effectiveness of preventive interventions differ according to setting? KQ3c. Do the effectiveness and comparative effectiveness of preventive interventions differ according to patient characteristics? KQ4. What are the harms of interventions for the prevention of pressure ulcers? KQ4a. Do the harms of preventive

interventions differ according to the type of intervention? KQ4b. Do the harms of preventive

interventions differ according to setting? KQ4c. Do the harms of preventive interventions differ according to patient characteristics?