LATEST NEWS from the American Academy of Pain Medicine

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PubMed Pain Abstracts
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Plan to Attend AAPM's 28th Annual Meeting
February 23–26, 2012, Palm Springs, CA

Preconference sessions begin February 22, 2012:

- AAPM's Cadaver Workshop
- Essential Tools for Treating the Patient in Pain™

Student Volunteers Needed for AAPM's Cadaver Course
The Academy is recruiting medical student and resident volunteers to assist with its Cadaver Workshop on Thursday, February 23. The course has a registration fee of $1,575-$2,395 for the entire day, but volunteers will receive complimentary entrance. Your primary responsibility will be to serve AAPM in your role of volunteer, however, you will also have the opportunity to observe various interventional procedures as they are taught.
addressed postcard or on the Internet at www.ama-assn.org/go/ballot. Be sure to designate AAPM. It is very important that we have sufficient AAPM members identified for compliance. Thank you.

AAPM's Safe Opioid Prescribing Course (February 25-26)
AAPM's newest educational offering is specifically created to be a practical, didactic course for primary care and mid-level prescribers from the experts in pain. The course will provide the opportunity to learn the facts about better pain care, while it scientifically dispels common myths and reveals lesser-known facts about safe opioid prescribing. This is much deeper than a 'how to prescribe' educational offering. For more information...

AAPM Announces 2012 Annual Meeting Plenary Speakers

- **Linda R. Watkins, PhD.** will discuss breaking scientific news on the immune and glial factors within the peripheral and central nervous systems that relate to chronic pain states.
- **Daniel J. Clauw, MD.** will take us to the forefront of central mechanisms in pain syndromes.

Cutting-Edge Conference Workshops Include:

- Hottest Topics in Pain Today
- In Demand Workshops
- Contemporary, Sometimes Controversial, Newsmaker Sessions
- The Mind of Pain
- Public Health, the IOM, REMS, and Health Reform
- Evidence-Based Pain Medicine
- Military Sessions

NEW! Annual Meeting Speaker Search
Click here to search for a specific speaker and begin planning your schedule for the 2012 Annual Meeting.

Educational Commendation

AAPM Education Garners ACCME Accreditation with Commendation

This past year AAPM underwent a formal reaccreditation process before the Accreditation Council for Continuing Medical Education (ACCME). The process commenced in 2010, reached an important milestone in March 2011 with the submission of the AAPM Self-Study Report, and culminated with an interview of staff and several members of the AAPM CME Committee in August 2011.

AAPM is pleased to announce that the Academy has received "Accreditation with Commendation," the highest level of reaccreditation available from ACCME. While, "Accreditation" is the norm, providing for a four-year term, "Accreditation with Commendation" provides the Academy with a six-year term before its next reaccreditation.

This is an important achievement as it positions AAPM as a leader in medical
Need to add a Pain Physician to your practice?
Post your ad with AAPM's Career Center and reach more than the 2,400 members of AAPM. The network reaches beyond 30,000 professionals in healthcare.

Help Wanted:

Primary Care Pain Management & Integrative Modalities Coordinator
Madigan Healthcare System
Tacoma, WA
We are recruiting two primary care physicians for an innovative interdisciplinary pain management center.

More jobs...

Practice Management & Coding Updates

Update on 2012 Medicare Physician Fee Schedule
Emily Hill, PA
The 2012 negative update to the Physician Fee Schedule has been averted until March 1, 2012, as part of the passage of the Temporary Payroll Tax Cut Continuation Act. The Act calls for a zero percent update for the period of January 1, 2012, to February 29, 2012. The new conversion factor (CF) is now $34.0376. Further Congressional action will be necessary to prevent the 27.4 percent decrease on March 1, resulting from the Sustainable Growth Rate (SGR) formula. Full story...

The Obama Administration and Expanded Efforts to Fight Fraud
December 13, 2011 [Source: CMS.gov]
As part of health care reform law, the Centers for Medicare & Medicaid Services (CMS) is "taking steps to strengthen controls to identify and prevent prescription drug fraud and abuse in the Medicare Part D program," which includes new tools and resources to help fight fraud. Over $5.6 billion in fraudulent payments were recovered in the 2011 fiscal year. Full story...

CMS Gives Industry More Time on Sunshine Rule
December 15, 2011 [Source: MedPage Today]
According to the Centers for Medicare & Medicaid published draft regulations, drug and devices makers will be required to report at least a partial list of financial ties to physicians on March 31, 2013. Comments on the proposed rule will be accepted until February 17, 2012. Full story...

Comments...

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New in Print

AAPM Textbook of Pain Medicine by Timothy R. Deer, MD
View summary of state laws related to prescribing controlled substances.

AAPM Releases Pain Position Paper

Plenary Proceedings of the 24th Annual Meeting
Plenary Proceedings of the 24th Annual Meeting contains exciting, forward thinking perspectives currently driving the emerging field of pain medicine.

Order your copy TODAY
Price: $79

Patient Education

Pain in Older Adults Discussed on Aches and Gains™ Radio Program
AAPM President, Perry G. Fine, MD will join AAPM Member, Paul J. Christo, MD on the radio talk show, Aches and Gains™, this Saturday, January 7, 2012 at 8:00 PM (EST). The program will focus on pain in older adults and will feature a story of success from an active 76 year old who has overcome severe spine pain. For more information...

Pain Research in the News

December 19, 2011 [Source: Azur Pharma, Inc.] The 2011 Polyanalgesic Consensus Conference (PACC), an expert panel of leading pain management physicians, issued guidelines for management of nociceptive and neuropathic chronic pain by intrathecal drug delivery. The guidelines were presented at the recent North American Neuromodulation Society Annual Meeting. Full story...
View guidelines in Pain Physician Journal...

Guidelines for Dealing with Back Pain Need to Be More Consistent to Cut Sick Days
December 13, 2011 [Source: Royal Holloway, University of London] Researchers at Royal Holloway, University of London, found that the advice clinicians give to back pain patients on returning to work can vary greatly and often does not follow the National Institute for Health and Clinical Excellence (NICE) guidelines encouraging patients to stay active and return to work. Full story...
View original Pubmed.gov abstract...

Pain Treatments/Trials in the News

Powerful New Painkillers Have Addiction Experts Worried
December 26, 2011 [Source: Time] Four companies are testing pure hydrocodone products to help avoid liver problems linked to acetaminophen, but there is concern over its abuse potential. Full story...
View related article in Harm Reduction Journal...

Pfizer Inc. (PFE) Reports Results From Three Phase 4 Studies Demonstrating EMBEDA® (morphine sulfate and naltrexone...
The American Board of Pain Medicine (ABPM) is committed to the certification of qualified physicians in the field of pain medicine. Visit abpm.org to view ABPM's mission, vision, and objectives.

**Pain Medicine: December, 2011**

**Highlights:**

**ETHICS SECTION**
The Medical–Industrial Complex, Professional Medical Associations, and Continuing Medical Education

**PRIMARY CARE & HEALTH SERVICES SECTION**
A Whole-Person Model of Care for Persistent Pain: From Conceptual Framework to Practical Application

**PALLIATIVE CARE SECTION**
Patient-Controlled Intrathecal Analgesia for the Management of Breakthrough Cancer Pain

**TRANSLATIONAL RESEARCH SECTION**
Effects of Epidural Capsaicin on Nociceptive Threshold and Neurological Functions in Rabbits

**NEUROPATHIC PAIN SECTION**
Electroacupuncture Is Not Effective in Chronic Painful Neuropathies

**Need Facts on Pain?**
Updated: Visit AAPM's "Facts on Pain" section in the Patient Center of the AAPM website, which now includes detailed references to each fact. These are helpful to have on hand for media calls. Read more...

**Affiliate Membership**
Are the members of your pain team AAPM members? Affiliate membership information...

**The AAPM Power Point Presentation on the Federal Regulations for Prescribing has been updated effective 11/01/2010.**
View this new presentation.

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**View all topics** slated for the December issue of Pain Medicine Journal or go to the Library section of the AAPM website for more information.

**MEMBERSHIP**

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**Endo Announces FDA Approval of a New Formulation of Opana® ER Designed To Be Crush-Resistant**
December 12, 2011 [Source: Endo Pharmaceuticals]
This new crush-resistant formulation of Opana® ER will continue to be called the same and be available in the same dosage strengths, color and packaging and similar tablet size and shape. The FDA approval also "signifies that there is no significant difference in the rate and extent of absorption of the therapeutic ingredient between the new and original formulation." Full story...

**Silk Microneedles Deliver Controlled-Release Drugs Painless**
December 21, 2011 [Source: Tufts University]
A new silk-based microneedle system developed by bioengineers at Tufts University School of Engineering is able to deliver precise amounts of drugs over time without need for refrigeration. Full story...

View related article at NIH Public Access in **Biomaterials**...

**Phase 3 Study of Methylaltrexone for Opioid-Induced Constipation**
December 20, 2011 [Source: Orexo]
A Phase 3 study of Salix and Progenics’ oral methylaltrexone for the treatment of opioid-induced constipation in chronic, non-cancer pain patients evaluated three once-daily oral dosing regimen (150 mg, 300 mg, and 450 mg) and demonstrated statistically significant results for the primary endpoint in two of the three treatment arms when compared to the placebo arm. Full story...

**Positive Study Results for OX27**
December 20, 2011 [Source: Orexo]
A pharmacokinetic study of OX27, a sublingual tablet developed to improve the treatment of breakthrough pain in cancer patients, showed that the active pharmaceutical ingredient has a rapid absorption into, and elimination from, plasma. Full story...

**Pacira Pharmaceuticals, Inc. Announces Results from EXPAREL™ Pivotal Trial Published in Diseases of the Colon & Rectum**
December 19, 2011 [Source: Pacira Pharmaceuticals, Inc.]
A Phase 3 trial of EXPAREL™ (bupivacaine liposome injectable suspension, approved by the FDA for administration into surgical site to produce postsurgical analgesia) demonstrated a statistically significant reduction in pain compared to placebo at all time points, including a 30 percent reduction in the cumulative pain score at 72 hours (P<0.0001). Full story...

View related article in **Journal of Drug Delivery**...

**NKTR-181 Exhibits Sustained and Dose-Dependent Analgesic Effect, Reduced Rate of Entry into the CNS and Wide Therapeutic Window**
December 13, 2011 [Source: Nektar Therapeutics]
Results from a Phase 1 clinical study of Nektar Therapeutics’ NKTR-181 exhibited a sustained analgesic response, supporting its development as a twice-daily oral tablet for the treatment of chronic pain conditions. Full results and data will be presented at AAPM’s Annual Meeting next month. Full story...

**Pfizer announced results from three Phase 4 studies of EMBEDA® to assess the effect of the drug when crushed and taken either orally or intranasally. Two of the studies found that it was associated with significantly (p<0.01) lower scores on the primary endpoints of "drug liking" and "high," as well as the secondary endpoints including "good effects," "overall drug liking" and "take drug again" as compared with extended-release morphine sulfate. Full story...**

**View related article in **Pain Physician Journal**...**
AAPM Membership Renewals

Membership renewals are currently being sent out. Don’t miss the opportunity to continue being a part of the primary organization for physicians practicing in the specialty of pain medicine. As a member you will continue to receive the AAPM E-News, *Pain Medicine*, the official journal of AAPM, as well as representation and advocacy in Washington DC, up-to-date coding information, discounts on AAPM's Annual Meeting, and a host of other member benefits.

Pay dues online or for phone assistance, please call customer service at 847/375-4731.

Bring in a new, paid, active AAPM member and receive the Plenary Proceedings of the 24th Annual Meeting, which contains exciting, forward thinking perspectives currently driving the emerging field of pain medicine. A $79 value. Contact phenderson@connect2amc.com to receive your thank you for referring a new AAPM.

**Federal Prescription Legislation**

**Legislation to Require Valid Prescription for Non-CS Prescription Drugs Ordered Online Introduced to US Senate**

December 21, 2011 [Source: National Association of the Boards of Pharmacy]

The Online Pharmacy Safety Act (S 2002) would amend the Federal Food, Drug, and Cosmetic Act to help strengthen the law to prevent online vendors from selling prescription drugs without valid prescriptions and ensure access to safe and legitimate Internet pharmacies. Full story...

View full text of S 2002 at [govtrack.us](http://govtrack.us).

**Pain Education**

**Pain Education In Medical Schools Needs Improvement**

December 22, 2011 [Source: American Pain Society]

AAPM Chair of the Medical School Curriculum Sub-Committee, Beth B. Murinson MD PhD, co-authored a study published in *The Journal of Pain* that examined the curricula in 117 medical schools in the U.S. and Canada and found "that a majority of medical schools are teaching one or more core topics in pain, but many schools are not reporting any pain teaching, and most others devote less than five hours to pain education." Full story...

View original abstract in *The Journal of Pain*.

**Substance Abuse & Addiction Research**

**Drug Overdoses Kill More Americans Than Car Accidents: CDC**

December 20, 2011 [Source: Healthfinder.gov]

A new CDC report indicates that by 2008, nine out of every 10 poisoning deaths were due to drugs, with some 77 percent of the deaths unintentional, 13 percent suicides and 9 percent undetermined intent. Forty percent of poisoning deaths were due to opioid painkillers. Full story...

**New Poll Finds High Levels of Prescription Painkiller Use and Abuse: 2011 KHIP Report Released**

December 2011 [Source: Foundation for a Healthy Kentucky]

A recent Kentucky Health Issues Poll, Misuse of Prescription Pain Relievers in Kentucky, found that 55 percent of Kentucky adults report that they have been prescribed a pain reliever in the past five years, and that 32 percent report having friends or family members that experienced problems as a result of abusing prescription pain relievers. Full story...

To view full report...

**Commentary Calls for Greater Awareness of Internet Pharmacies’ Role in Prescription Drug Abuse**

December 19, 2011 [Source: Massachusetts General Hospital]

A recent commentary in the *Annals of Internal Medicine* describes the probable contribution of Internet pharmacies to the growing prescription drug abuse, outlining potential strategies to address this issue. Full story...

**Illicit Drug-Related Emergency Department Visits in Metropolitan Areas of the United States: 2009**

December 15, 2011 [Source: SAMHSA]

According to a new Drug Abuse Warning Network (DAWN) report, rates of emergency department (ED) visits involving illicit drugs were higher in Boston (571 per 100,000 pop.), New York City (555 per 100,000 pop.), Chicago (507
per 100,000 pop.), and Detroit (462 per 100,000 pop.) than in the nation as a whole (317 per 100,000 pop.). View report...

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Reviews in Pain Treatments

**Opioid Adjuvants for Multimodal Pain Management**
December 2011 [Source: Pain Medicine News]

An Integrated Risk Evaluation and Mitigation Strategy for Fentanyl Buccal Tablet (FENTORA®) and Oral Transmucosal Fentanyl Citrate (ACTIQ®)
December 2011 [Source: Pain Medicine News]

Neuropathic Pain of Postherpetic Neuralgia
December 2011 [Source: Pain Medicine News]

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International Pain News

AAPM Leaders Serve on International Pain Summit Steering Committee
AAPM continues to be looked to by the international pain community for its leadership, involving two AAPM leaders, **Rollin M. Gallagher, MD, MPH**, and **Philipp M. Lippe, MD**, in the development of two new international documents recently released by the International Association for Study of Pain: Declaration of Montréal, Declaration that Access to Pain Management Is a Fundamental Human Right
To view...
Desirable Characteristics of National Pain Strategies: Recommendations by the International Association for the Study of Pain
To view...

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AAPM Members in the News

Do Americans Need a Powerful New Painkiller?
December 27, 2011 [Source: ABC News]
AAPM members **Elliot J. Krane, MD, Joshua P. Prager, MD, MS, Lloyd Saberski, MD**, and **Joel Saper, MD**, discuss their concerns about a new formulation that would allow doctors for the first time ever to prescribe pure hydrocodone to their patients. Full story...

Dr. Sridhar Vasudevan Receives Distinguished Member Award from National PM&R Organization
December 9, 2011 [Source: Medical College of Wisconsin]
AAPM Member, **Sridhar V Vasudevan, MD** received the Distinguished Member Award from the American Academy of Physical Medicine and Rehabilitation (AAPMR), honoring academy members who have provided invaluable service to the specialty through participation in PM&R-related organizations. Full story...
AAPM Business

2012 AAPM Election Results

The Academy is pleased to announce the 2012 Election Results for the AAPM Board of Directors and the Nominating Committee. Congratulations to all!

President-Elect (1 year term)
Lynn R. Webster, MD

Secretary (3 year term)
Zahid Bajwa, MD

Directors-at-Large (3 year term)
Leonardo Kapural, MD, PhD
Tim Lamer, MD
Steven P. Stanos, DO

Nominating Committee (2 year term)
Daniel B. Carr, MD
Robin Hamill-Ruth, MD

AAPM Member Honors and Distinctions

Presidential Commendations and Awards
The American Academy of Pain Medicine is pleased to announce the recipients of this year’s Presidential Commendations and Awards. The following individuals will be recognized for their exceptional service to the field of Pain Medicine at this year’s Annual Meeting at the AAPM Business Meeting, Saturday, February 25, from 1:00-1:45 p.m.

Awards

The Philipp M. Lippe, MD, Award is given to a physician for outstanding contributions to the social and political aspect of Pain Medicine. Social and political accomplishments could be those that benefit the science, the practice or the recognition of the specialty. The 2012 Philipp M. Lippe, MD, Award recipient is: Philip A. Pizzo, MD

The Founders Award is given to an individual for outstanding contributions to
the science or practice of Pain Medicine. This award is given for continued contributions for the basic or clinical science of Pain Medicine or for demonstration of clinical excellence or innovation in the practice of Pain Medicine. The 2012 Founders Award recipient is: **Howard M. Fields, MD**

The **Distinguished Service Award** is given to an individual for commitment and contributions to the American Academy of Pain Medicine. This award is given to an individual for specific outstanding contributions. The 2012 Distinguished Service Award recipient is: **B. Todd Sitzman, MD**

The **Patient Advocacy Award** recognizes activity of an individual in advocating for appropriate evaluation and treatment of patients suffering from pain. This award was created to honor those healthcare professionals whose deeds reflect their recognition of the importance and impact of the specialty of Pain Medicine. The 2012 Patient Advocacy Award recipient is: **Robert J. Saner II, JD**

The **AAPM Presidential Excellence Award for Education** was inaugurated this year to honor an individual who has made major contributions to the education of others about pain medicine. The 2012 AAPM Presidential Excellence Award for Education recipient is: **Lynn R. Webster, MD**

**Presidential Commendations**

**Kenneth A. Follett, MD PhD, Professor and Chief of Neurosurgery, University of Nebraska Medical Center**
For service on the Institute of Medicine Pain Committee

**R. Gil Kerlikowske, Director, Office of National Drug Control Policy**
For leadership in developing the Office of National Drug Control Policy's "Epidemic: Responding to America’s Prescription Drug Abuse Crisis"

**Regina M. LaBelle, Senior Policy Advisor to the Director, Office of National Drug Control Policy**
For leadership in developing the Office of National Drug Control Policy's "Epidemic: Responding to America’s Prescription Drug Abuse Crisis"

**Sean Mackey, MD, PhD, Associate Professor of Anesthesia and of Neurology and Neurological Sciences and Division Chief of Pain Medicine, Stanford University Pain Management Center**
For service on the Institute of Medicine Pain Committee

**U. S. Senator Jay Rockefeller (West Virginia)**
In recognition of efforts to prevent the unsafe use of prescription drugs and reduce the number of deaths from prescription drugs by promoting physician and patient education and creating a uniform reporting system for painkiller-related deaths, through the introduction of the *Prescription Drug Abuse Prevention and Treatment Act of 2011*

**Jerome Schofferman, MD, Director of Research and Education of the Spine Care Institute of San Francisco**
For stalwart and unflaggingly principled efforts to advocate for the highest ethical standards within the American Academy of Pain Medicine

**U.S. Senator Sheldon Whitehouse (Rhode Island)**
For efforts to examine the problem of prescription drug abuse and discuss proposed solutions, specifically chairing a Senate Judiciary Subcommittee hearing on Prescription Drug Abuse: "Responding to the Prescription Drug Epidemic: Strategies for Reducing Abuse, Misuse, Diversion, and Fraud"
Drs. Elliot Krames and K. Dean Willis Receive Awards at NANS Meeting
AAPM Members, Elliot S. Krames, MD and K. Dean Willis, MD received the Lifetime Achievement Award and Distinguished Service Award, respectively, at the 15th annual North American Neuromodulation Society Meeting. Full story...

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FDA, DEA, and ONDCP News

FDA Approves Shared System REMS for TIRF products
December 29, 2011 [Source: FDA]
The U.S. Food and Drug Administration today approved a single shared Risk Evaluation and Mitigation Strategy (REMS) for the transmucosal immediate-release fentanyl (TIRF) products. This new shared system will replace the individual REMS and allow prescribers and pharmacies to enroll into just one system, easing the burden on the health care system. Full story...

Liquid Acetaminophen marketed for infants: Drug Safety Communication - Potential for Dosing Errors
December 22, 2011 [Source: FDA]
The FDA is informing the public that an additional concentration of liquid acetaminophen marketed for "infants" (160 mg/5 mL) is now available. This change in the concentration will affect the amount of liquid given to an infant, and should be especially noted if someone is accustomed to using the 80 mg /0.8 mL or 80 mg/mL concentrations of liquid acetaminophen. Full story...

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State Legislative News

Tennessee PMP: Doctors Should Check Database Before Prescribing Pain Pills
January 5, 2012 [Source: Knoxnews.com]
Pending legislation in Tennessee would require physicians to check the state prescription monitoring program before writing painkiller prescriptions. Tennessee Medical Association officials expressed concern over this requirement, but believe doctors will accept the requirement if they are allowed to delegate the check requirement to others as part of "minimal-level standards of care." Full story...

New State Law Leaves Patients in Pain
December 11, 2011 [Source: Seattle Times]
A Seattle Times article chronicles the effect on one pain patient that was affected by the Washington State new pain management law. Full story...

State Pushes Prescription Painkiller Methadone, Saving Millions but Costing Lives
December 10, 2011 [Source: Seattle Times]
For the past eight years the state of Washington has steered Medicaid patients to methadone due to the cost. This Seattle Times article reports that although Medicaid recipients make up only 8 percent of Washington state's adult population, they account for 48 percent of methadone deaths. Full story...
Ethics

Compliance with Mandatory Reporting of Clinical Trial Results on ClinicalTrials.gov: Cross Sectional Study
January 3, 2012 [Source: BMJ]
Abstract: Objective To examine compliance with mandatory reporting of summary clinical trial results (within one year of completion of trial) on ClinicalTrials.gov for studies that fall under the recent Food and Drug Administration Amendments Act (FDAAA) legislation.
Read more...

Industry News

Epidurals Linked to Paralysis Seen With $300 Billion Pain Market
December 27, 2011 [Source: Bloomberg]
The FDA is reviewing the safety of steroid injections due to an increase in severe and unexpected complications that has accompanied a surge in steroid injections. Full story...

Covidien to Spin Off Pharmaceutical Unit
Covidien announces that it will turn its pharmaceutical unit into a stand-alone public company. Full story...

Pain Abstracts in the News

Expression of the Dopaminergic D1 and D2 Receptors in the Anterior Cingulate Cortex in a Model of Neuropathic Pain
December 15, 2011 [Source: Molecular Pain]
Abstract (provisional): Background: The anterior cingulate cortex (ACC) has been related to the affective component of pain. Dopaminergic mesocortical circuits, including the ACC, are able to inhibit neuropathic nociception measured as autotomy behaviour. We determined the changes in dopamine D1 and D2 (D1R and D2R) receptor expression in the ACC (cg1 and cg2) in an animal model of neuropathic pain.
Read more...
View original article in Molecular Pain...

Effect of MRI on Treatment Results or Decision Making in Patients With Lumbosacral Radiculopathy Referred for Epidural Steroid Injections
December 12, 2011 [Source: Archives of Internal Medicine]
ABSTRACT: Background Studies have shown that radiologic imaging does not improve outcomes in most patients with back pain, though guidelines endorse it before epidural steroid injections (ESIs). The objective of this study was to determine whether magnetic resonance imaging (MRI) improves outcomes or affects decision making in patients with lumbosacral radiculopathy referred for ESI.
Read more...

Gastrointestinal Effects of the Addition of Ascorbic Acid to Aspirin
Abstract: Nonsteroidal anti-inflammatory drugs (NSAIDs), including aspirin, have been associated with the damage to the gastrointestinal tract. One proposed mechanism of injury to the gastrointestinal mucosa by NSAIDs is oxygen radical-dependent microvascular injury. There is reasonable evidence to support the benefit of the addition of ascorbic acid, an ingredient with antioxidant properties, to moderate the adverse gastrointestinal (GI) effects of aspirin. Pharmacokinetic data have demonstrated that aspirin and ascorbic acid combination therapy can assist in mitigating the decrease in levels of ascorbic acid secondary to aspirin monotherapy.

Read more...
Celecoxib (Celebrex®) was the first cyclo-oxygenase (COX)-2 selective inhibitor (coxib) to be introduced into clinical practice. Coxibs were developed to provide anti-inflammatory/analgesic activity similar to that of nonselective NSAIDs, but without their upper gastrointestinal (GI) toxicity, which is thought to result largely from COX-1 inhibition. Celecoxib is indicated in the EU for the symptomatic treatment of osteoarthritis, rheumatoid arthritis and ankylosing spondylitis in adults. This article reviews the clinical efficacy and tolerability of celecoxib in these EU-approved indications, as well as overviewing its pharmacological properties.

PMID: 22141388 [PubMed - in process]  
Read more...  
View related article in the National Institute for Health Research...