<u>A deadly dishonor roll</u>

FDA-approved drugs withdrawn from market show fallibility of 'gold standard' clinical trials

Reports of safety and effectiveness from doctors who have monitored cannabis use by more than a million US citizens are dismissed by the government and the medical establishment with a simple assertion (that happens to be false): "There have been no randomized controlled trials.'

The reality is that there have been numerous RCTs confirming the safety and efficacy of cannabis in treating various conditions. Elsewhere in this issue Dr. Dustin Sulak refers to 11 RCTs of cannabis in the treatment of pain.

Randomized, placebo-controlled clinical trials are considered "the gold standard" in establishing the safety and effectiveness of a drug. The Food and Drug Administration relies solely on results from RCTs in approving products for the market.

Drug policy reformers often point out that the government has created huge hurdles for researchers who would study cannabis as medicine. But few question the infallibility of RCTs.

Some 35 drugs whose safety and efficacy were established in randomized, placebocontrolled trials to the satisfaction of the FDA have been removed from the market after patterns of harm emerged in the broader population. We are grateful to Pro-Con.org for listing them.

The FDA orders a manufacturer to stop selling a product "when its risks outweigh its benefits. A drug is usually taken off the market because of safety issues with the drug that cannot be corrected, such as when it is discovered that the drug can cause serious side effects that were not known at the time of approval."

(It often turns out that a drug's dangerous side effects were known to the manufacturer, but concealed from the FDA. Manufacturers don't have to report the result of trials that show little benefit and/or recurrent adverse effects.)

Accutane (Isotretinoin)

Use: Acne

Manufacturer: Hoffman-La Roche Years on the market: 27 (1982 to 2009)

Cause for recall: increased risk of birth defects, miscarriages, and premature births when used by pregnant women; inflammatory bowel disease; suicidal tendencies

More than 7,000 lawsuits were filed against the manufacturer over the side effects including a \$10.5 million verdict and two \$9 million verdicts.

Baycol (Cerivastatin)

Use: Cholesterol reduction



Manufacturer: Bayer A.G.

Years on the market: three (1998-2001) Cause for recall: rhabdomyolysis (breakdown of muscle fibers that results in myoglobin being released into the bloodstream) which led to kidney failure; 52 deaths (31 in the US) worldwide; 385 nonfatal cases with most requiring hospitalization; 12 of the deaths were related to taking this drug in combination with gemfibrozil (Lopid).

Bextra (Valdecoxib)

Use: Pain relief

Manufacturer: G.D. Searle & Co.

Years on the market: 3.3 (2001-2005) Cause for recall: Serious cardiovascular adverse events (death, heart attack, stroke); increased risk of serious skin reactions (like toxic epidermal necrolysis, Stevens-Johnson syndrome, erythema multiforme); gastrointestinal bleeding.

The FDA determined that Bextra, a nonsteroidal anit-inflammatory drug, showed no advantage over other NSAID pain relievers on the market.

Cylert (Pemoline)

Use: Central nervous system stimulant to treat ADHD/ADD

Manufacturer: Abbott Laboratories On the market for 35 years (1975-2010) Cause for recall: liver toxicity

The FDA added a box warning to Cylert in 1999, alerting doctors and patients to the potential of liver damage.

Darvon & Darvocet (Propoxyphene)

Use: Opioid pain reliever Manufacturer: Xanodyneon On the market 55 years (1955 to 2010) Cause for recall: serious toxicity to the heart. Between 1981 and 1999 there were more than 2,110 deaths reported.

The UK banned Darvon and Darvocet in 2005. The FDA was petitioned in 1978 and again in 2006 to ban the drug by the group Public Citizen.

DBI (Phenformin)

Use: antidiabetic

Manufacturer: Ciba-Geigy On the market for 19 years (1959-1978) Cause for recall: lactic acidosis (low pH

in body tissues and blood and a buildup of lactate) in patients with diabetes.

7. DES (Diethylstibestrol)

Use: synthetic estrogen to prevent miscarriage, premature labor, and other pregnancy complications

Manufacturer: Grant Chemical Company On the market 31 years (1940 to 1971)

Cause for recall: clear cell adenocarcinoma (cancer of the cervix and vagina), birth defects, and other developmental abnormalities in children born to women who took the drug while pregnant; increased risk of breast cancer, higher risk of death from breast cancer; risk of cancer in children of mothers taking the drug including raised risk of breast cancer after age 40; increased risk of fertility and pregnancy complications, early menopause, testicular abnormalities; potential risks for third generation children (the grandchildren of women who took the drug).

Studies in the 1950s showed the drug was not effective at preventing miscarriages, premature labor, or other pregnancy complications.

Duract (Bromfenac)

Use: Pain killer

Manufacturer: Wyeth-Ayerst On the market July 1997 through 1998 Cause for recall: 4 deaths; 8 patients requiring liver transplants; 12 patients with severe liver damage

Duract was labeled for maximum use of 10 days but patients often received/took more than 10 days worth of pills; all cases of death and liver damage involved patients taking pills for longer than 10 days.

Ergamisol (Levamisole)

Use: Worm infestation; colon and breast cancers; rheumatoid arthritis

Manufacturer: Janssen Pharmaceutica On the market for 11 years (1989-2000)

Cause for recall: neutropenia (a type of low white blood cell count), agranulocytosis (a type of low white blood cell count), and thrombotic vasculopathy (blood clots in blood vessels) which results in retiform purpura (a purple discoloration of the skin that can sometimes require reconstructive

surgery)

Levamisole is still used to treat animals with worm infestations in the US. It is also being found in street cocaine as an adulterant to increase euphoric qualities.

Hismanal (Astemizole)

Use: Antipsychotic

Manufacturer: Janssen Pharmaceutica On the market 11 years (1988-1999)

Cause for recall: slowed potassium channels in the heart that could cause torsade de pointes (TdP; a heart condition marked by a rotation of the heart's electrical axis) or long QT syndrome (LQTS; prolonged QT intervals)

Lotronex (Alosetron)

Use: Irritable bowel syndrome (IBS) in women

Manufacturer: Prometheus Laboratories, On rhe market less than a year (Feb. 9, to Nov. 28, 2000)

Cause for recall: 49 cases of ischemic colitis (inflammation and injury of the large intestine); 21 cases of severe constipation (10 requiring surgery); 5 deaths; mesenteric ischemia (inflammation and injury of the small intestine)

Lotronex was reintroduced to the US market in 2002 with restricted indication.

Meridia (Sibutramine)

Use: Appetite Suppressant Manufacturer: Knoll Pharmaceuticals On the market 13 years (1997 to 2010) Cause for recall: increased cardiovascular and stroke risk.

FDA reviewer Dr. David Graham listed Meridia with Crestor, Accutane, Bextra, and Serevent as drugs whose sales should be limited or stopped because of their danger to consumers in Sep. 30, 2004 testimony before a Senate committee,

Merital & Alival (Nomifensine)

Use: Antidepressant

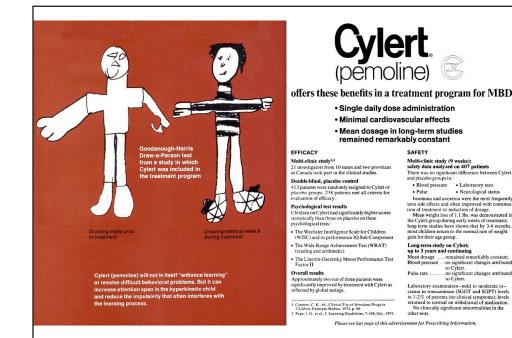
Manufacturer: Hoechst AG (now Sanofi-Aventis)

On the market three years (1982 to 1985) Cause for recall:

haemolytic anemia; some deaths due to immunohemolytic anemia

Micturin (Terodiline)

Use: Bladder incontinence Manufacturer: Forest Labs On the market two years (1989 to 1991) Cause for recall: QT prolongation (irregular heartbeat) and potential for cardiotoxicity.



Importance of single daily dosage to the child, the parents and the teacher

trug in ch mid-day de

age and administration

is given as a single oral do recommended starting d

112.5 mg. nded schedule of d

ek of drug the

Cylert (pemoline), alone among CNS stimulants used to treat MBD, is inherently long-acting, permitting once-daily dosage can be taken with meals When not to use Cyler can prescribe Cylert a.c., p.c. ough the speed of absorption i id by food, the total absorption

Cylert should not be used for effective in) simple cases of o

sis. should rely on a con

e physician sh child and a th





ABBOT'S MARKETING MATERIALS FOR CYLERT appeared in four-page ad inserts in prestigious medical journals. Text in ad at left: "Goodenough-Harris Draw-a-Person test from a study in which Cylert was included in the treatment program. Drawing made prior to treatment (left). Drawing made at week 5 during treatment."

Second ad describes Cylert as a treatment for "MBD," which readers knew meant "Minimal Brain Damage." The condition is now defined as Attention Deficit Disorder (ADD) or Attention Deficit Disorder with Hyperactivity (ADHD). Cylert has given way to Ritalin and Adderall.

Prescribing Informatio

75 mg. tablets (tan-colored) in of 100 (NDC 0074-6073-13) ABBOTT LABO



Withdrawn Drugs continued from previous page _

Mylotarg (Gemtuzumab Ozogamicin)

Use: Acute myeloid leukemia (AML, a bone marrow cancer).

Manufacturer: Wyeth

On the market 10 years (2000-2010).

Cause for recall: increased risk of death and veno-occlusive disease (obstruction of veins).

Omniflox (Temafloxacin)

Use: Antibiotic for pneumonia, bronchitis, and other respiratory tract infections; prostatitis and other genitourinary tract infections; skin ailments.

Manufacturer: Abbot Laboratories

On the market Jan. 31 to June 5, 1992 Cause for recall: three deaths; severe low blood sugar; hemolytic anemia and other blood cell abnormalities; kidney disfunction (half of the cases required renal dialysis); allergic reactions including some causing life-threatening respiratory distress.

[The true extent of the damage caused by Omniflox and the vile duplicity of Abbot execs is laid out in a great book by Stephen Fried, "Bitter Pills." *See sidebar WHERE*.]

Palladone (Hydromorphone hydrochloride, extended-release)

Use: Narcotic painkiller

Manufacturer: Purdue Pharma

On the market January to July 13, 2005 Cause for recall: high levels of palladone could slow or stop breathing, or cause coma or death; combining the drug with alcohol use could lead to rapid release of hydromorphone, in turn leading to potentially fatally high levels of drugs in the system

Permax (Pergolide)

Manufacturer: Valeant

On the market nine years (1988-2007)

Cause for recall: valve regurgitation (a condition that causes the valves to not close tightly, which allows blood to flow backward over the valve) in the mitral, tricuspid, and aortic heart valves, which can result in shortness of breath, fatigue, and heart palpitations

Permax is still available in the U.S. for veterinary use, specifically for pituitary pars intermedia hyperplasia or equine Cushing's Syndrome (ECS) in horses.

Pondimin (Fenfluramine)

Use: Appetite suppressant

Manufacturer: Wyeth-Ayerst On the market 24 years (1973 to 1997)

Cause for recall: 30% of patients prescribed the drug had abnormal echocardiograms; 33 cases of rare valvular disease in women; 66 additional reports of heart valve disease

Pondimin is better known as "Fen-Phen" when prescribed with Phentermine.

Posicor (Mibefradil)

Use: Calcium channel blocker (used to

serious cardiac arrythmias (including ventricular tachycardia, ventricular fibrillation, torsades de pointes, and QT prolongation) reported between July 1993 and May 1999, with 70 being deaths.

Propulsid is also banned in India (2011) and available for limited use in Europe. It is still available for use in animals in the US and Canada.

Quaalude (Methaqualone) Marketed as: Optimal, Sopor, Parest, Somnafac, and Bi-Phetamine T.

Use: Sedative and hypnotic

Manufacturer: William H. Rorer Inc. & Lemmon Company

On the market for 23 years (1962 to 1985) Cause for recall: mania; seizures; vomiting; convulsions; death.

Methaqualone was originally tested in India as a malaria treatment (it was ineffective). The drug is now a schedule 1 drug in the United States (like heroin, marijuana, and LSD).

Raplon (Rapacuronium)

Use: Non-polarizing neuromuscular blocker (used in anesthesia

Manufacturer: Organon Inc.

On the market for two years (1999-2001)

Cause for recall: bronchospasms and unexplained deaths

1 1

Raptiva (Efalizumab)

Use: Psoriasis

Manufacturer: Genentech On the market six years (2003 to 2009) Cause for recall:progressive multifocal leukoencephalopathy (PML; a rare and usually fatal disease that causes inflammation or progressive damage of the white matter in multiple locations of the brain)

Raxar (Grepafloxacin)

Use: Antibiotic for bacterial infections Manufacturer: Glaxo Wellcome On the market two years (1997 to 1999) Cause for recall: cardiac repolarization; QT interval prolongation; ventricular arrhythmia (torsade de pointes) filed against the manufacturer (Pfizer).

Selacryn (Tienilic acid)

Use: blood pressure

Manufacturer: SmithKline

On the market three years (1979 to 1982) Cause for recall: hepatitis; 36 deaths; at least 500 cases of severe liver and kidney damage

Anphar Labs (which developed the drug in France and sold rights to sell in US to SmithKline) sent a report to SmithKline in Apr. 1979 (translated in May 1979 to English from French) stating Selacryn damaged livers. On Dec. 13, 1984, SmithKline Beckman plead guilty to "14 counts of failing to file reports with the drug agency of adverse reactions to Selacryn and 20 counts of falsely labeling the drug with a statement that there was no known causeand-effect relationship between Selacryn and liver damage"

Seldane (Terfenadine)

Use: Antihistamine

Manufacturer: Hoechst Marion Roussel (now Sanofi-Aventis)

On the market 13 years (1985 to 1998)

Cause for recall: life-threatening heart problems when taken in combination with other drugs (specifically erthromycin (an antibiotic) and ketoconazole (an antifungal)

Seldane was not considered an imminent threat. The FDA pulled Seldane from the market because Allegra and Allegra D were produced by the same company and were deemed safer by the FDA.

Trasylol (Aprotinin)

Use: antifibrinolytic to reduce blood loss during surgery

Manufacturer: Bayer

On the market 15 years (1993-2008) Cause for recall: increased chance of death, serious kidney damage, congestive heart failure, and strokes

Zelnorm (Tegaserod maleate)

Use: irritable bowel syndrome with constipation and chronic idiopathic constipation in women younger than 55.

only by prescription

Manufacturer: Novartis

On the market for 4.6 years (2002-2007) Cause for recall: higher chance of heart attack, stroke, and unstable angina (heart/ chest pain)

The FDA permitted restricted use of Zelnorm on an emergency basis (with prior case-by-case authorization from the FDA) on July 27, 2007.

Sources:

Abbott Laboratories, "Cylert," American Journal of Diseases of Children, www.bonkersinstitute.org, 1976

Adforum.com, "Zelnorm - 'N/A' - Deutsch NY," www.adforum.com (accessed Feb. 7, 2014)

AP, "Drug Maker Pleads Guilty over Lethal Side Effects," www.nytimes.com, Dec. 14, 1984

AstraZeneca, "AstraZeneca Decides to Withdraw Exanta TM," www.astrazeneca.com, Feb. 14, 2006

Michelle R. Carter and Sorour Amirhaeri, "p-ANCA-Associated Vasculitis Caused by Levamisole-Adulterated Cocaine: A Case Report," Case Reports in Emergency Medicine, www.hindawi.com, 2013

Marlene Cimons, "Seldane Pulled for a Safer Allergy Drug," www.latimes.com, Dec. 30, 1997

Dan Collins, "Insider: FDA Won't Protect Public," www.cbsnews.com, Dec. 7, 2004

Richard DeGrandpre, The Cult of Pharmacology: How America Became the World's Most Troubled Drug Culture, 2006

"Drugs: The Dangers of Analgesics," www. time.com, Feb. 24, 1967

Drugwatch, "What Is Accutane? It's Uses and Interactions," www.drugwatch.com/accutane, Dec. 10, 2013

Fairfield State Hospital, "Metrazol Therapy," www.fairfieldstatehospital.com, Jan. 15, 2013

FDA, "FDA Alerts Consumers of Undeclared Drug Ingredients in Over-the-Counter Diabetes Product," www.fda.gov, July 23, 2013 FDA, "FDA Announces Withdrawal Fenfluramine and Dexfenfluramine (Fen-Phen)," www. fda.gov, Sep. 15, 1997 FDA, "FDA Announces Voluntary Withdrawal of Pergolide Products: Agency Working with Product Manufacturers," www.fda.gov, Mar. 29,2007 FDA, "FDA Approves First Treatment for Women with Constipation-Predominant Irritable Bowel Syndrome," www.web.archive.org, July 24, 2002 FDA, "FDA Drug Safety Communication: Voluntary Market Withdrawal of Xigris [drotrecogin alfa (activated)] Due to Failure to Show a Survival Benefit," www.fda.gov, Oct. 25, 2011 FDA, "FDA Issues Public Health Advisory for Trasylol," www.fda.gov, Feb. 8, 2006 FDA, "FDA: Pfizer Voluntarily Withdraws Cancer Treatment Mylotarg from U.S. Market," www.fda.gov, June 21, 2010 FDA, "FDA Requests Marketing Suspension of Trasylol," www.fda.gov, Nov. 5, 2007 FDA, "How Does FDA Decide When a Drug Is not Safe enough to Stay on the Market," www.fda.gov, Jan. 7, 2010 FDA, "Information for Healthcare Profes-



treat hypertension)

Manufacturer: Roche Laboratories On the market 1 year (June '97 to June '98) Cause for recall: fatal interactions with at least 25 other drugs, including common antibiotics, antihistamines, and cancer drugs) including astemizole, cisapride, terfenadine, lovastatin, and simvastatin

Posicor was found by the FDA to offer no significant benefit over other antihypertensive or antianginal drugs, which made the risks of drug interactions "unreasonable." Patients immediately switching from Posicor to another calcium channel blocker were at increased risk of going into shock within 12 hours of the drug switch.

Propulsid (Cisapride)

Use: Severe nighttime heartburn associated with gastroesophageal reflux disease (GERD)

Manufacturer: Janssen Pharmaceutical On the market seven years (1993-1970). Cause for recall: more than 270 cases of

Redux (Dexfenfluramine)

Use: Appetite suppressant Manufacturer: Wyeth-Ayerst On the market one year 1996-'97) Cause for recall: 30% of patients prescribed the drug had abnormal echocardiograms; 33 cases of rare valvular disease in women; 66 additional reports of heart valve disease

Redux is better known as "Fen-Phen" when prescribed with Phentermine.

Rezulin (Troglitazone)

Use: Antidiabetic and anti-inflammatory Manufacturer: Parke-Davis/Warner Lambert (now Pfizer)

On the market three years 1997 to 2000) Cause for recall: at least 90 liver failures; at least 63 deaths

About 35.000 personal injury claims were

On Feb. 8, 2006, the FDA issued a public heath advisory to surgeons who perform heart bypasses, alerting them of possible fatal side effects.

Vioxx (Rofecoxib)

Use: NSAID (pain relief) Manufacturer: Merck

On the market 5.3 years (May 20, 1999 to Sep. 30, 2004)

Cause for recall: increased risk of heart attack and stroke; linked to about 27,785 heart attacks or sudden cardiac deaths between May 20, 1999 and 2003.

[The above from ProCon.org downplays the devastation caused by Vioxx. *See sidebar WHERE*.]

Xigris (Drotrecogin alfa, activated)

Use: Severe sepsis and septic shock Manufacturer: Eli Lilly On the market for 10 years (2001-2011)

Cause for recall: no survival benefit

Withdrawn Drugs continued from previous page .

sionals: Pemoline Tablets and Chewable Tablets (marketed as Cylert)," www.fda.gov, Oct. 2005

FDA, "Information for Healthcare Professionals: Valdecoxib (marketed as Bextra)," www.fda.gov, Apr. 7, 2005

FDA, "Propulsid (cisapride) Dear Healthcare Professional Letter Jan 2000," www.fda.gov, Jan 24, 2000

FDA, "Propoxyphene: Withdrawal - Risk of Cardiac Toxicity," www.fda.gov, Nov. 19, 2010

FDA, "Public Health Advisory: Suspended Marketing of Palladone (hydromophone hydrocloride, extended-release capsules)," www.fda. gov, July 13, 2005

FDA, "Questions and Answers about Withdrawal of Duract," www.fda.gov, Aug. 23, 2013

FDA, "Questions and Answers about Withdrawal of Fenfluramine (Pondimine) and Dexfenfluramine (Redux)," www.fda.gov, July, 7, 2005

FDA, "Raplon (Rapacuronium Bromide)," www.fda.gov, Mar. 29, 2001

FDA, "Recalling the Omniflox (Temafloxacin) Tablets," June 5, 1992

FDA, "FDA Statement on the Voluntary Withdrawal of Raptiva from the U.S. Market," www. fda.gov, Apr. 8, 2009

FDA, "Withdrawal of Product: RAXAR (grepafloxin HCL) 600 mg Tablets, 400 mg Tablets, and 200 mg Tablets," www.fda.gov, Nov. 1, 1999

FDA, "Zelnorm (tegaserod maleate) Information," www.fda.gov, May 11, 2012

Jef Feeley, "Pfizer Ends Rezulin Cases with \$205 Million to Spare (Update1)," www. bloomberg.com, Mar. 31, 2009

Barbara Forney, "Pergolide for Veterinary Use," www.wedgewoodpetrx.com (accessed Jan. 6, 2014)

Curt D. Furgerg and Bertram Pitt, "Withdrawal of Cerivastatin from the World Market," www.ncbi.nlm.nih.gov, Sep. 26, 2001

Raymond Goldberg, Drugs across the Spectrum, 6th edition, 2010

Barbara Hammes and Cynthia Laitman, "Pharmaceutical Company Advertisement for DES by the Grant Chemical Company, Brooklyn, NY, Printed in the American Journal of Obstetrics & Gynecology in 1957," Journal of Midwifery and Women's Health, www.medscape.com, 2003

David Healy, Let Them Eat Prozac: The Unhealthy Relationship between the Pharmaceutical Industry and Depression, 2004

Charles D. Helper and Richard Segal, Preventing Medication Errors and Improving Drug Therapy Outcomes: A Management Systems Approach, 2003

Irritable Bowel Syndrome Self Help and Support Group, "Lotronex," www.ibsgroups.org (accessed Jan. 6, 2014)

Harvey Kirk, "Darvon and Darvocet Deaths Lead FDA Panel to Recommend Recall," www. youhavealawyer.com, Feb. 2, 2009

Lilly, "Lilly Announces Withdrawal of Xigris R Following Recent Clinical Trial Results," www.fda.gov, Oct. 25, 2011

National Cancer Institute, "Diethylstilbestrol (DES) and Cancer," www.cancer.gov, Oct. 5, 2011

Steven Morris, "Abbott Gets FDA Approval for Omniflox Antibiotic," www.chicagotribune. com, Feb. 1, 1992

MSNBC Staff, "Report: Vioxx Linked to Thousands of Deaths," www.nbcnews.com, Oct. 6, 2004

Pink Sheet, "FDA Clears Treatment IND for Colon Cancer Drug Levamisole," www.elsevierbi.com, May 15, 1989

Res Obscura, "From Quacks to Quaaludes: Three Centuries of Drug Advertising," www. resobscura.blogspot.nl, June 11, 2012

Rita Rubin, "How Did Vioxx Debacle Happen?," www.usatoday.com, Oct. 12, 2004

Renato M.E. Sabbatini, "The History of Shock Therapy in Psychiatry," www.crerbromente.org.br (accessed Dec. 19, 2013)

Christian Sinclair, "Are You Glad Darvocet Got Pulled by the FDA? Are You Sure?," www. pallimed.org, Nov. 30, 2010

Ruth SoRelle, "Withdrawal of Posicor from Market," www.circ.ahajournals.org, 1998

Sheryl Gay Stolberg, "New Painkiller Is Withdrawn after 4 Deaths," www.nytimes.com, June 23, 1998

Bernadette Tansey, "Hard Sell: How Marketing Drives the Pharmaceutical Industry/The Side Effects of Drug Promotion/Aggressive Ads for Painkillers Left More Patients Exposed to Risk," www.sfgate.com, Feb. 27, 2005

Forest Tennant, "Hughes & Pseudoaddiction," Practical Pain Management, www.paintopics.org, July/Aug. 2007

Today's Seniors Network, "This Is Patient

Education?," www.todaysseniorsnetwork.com (accessed Jan. 7, 2014)

David Willman, "Diabetes Drug Rezulin Pulled Off the Market," www.pulitzer.org, Mar. 22, 2000

David Willman, "Drug Lotronex Pulled over Safety Fears," www.pulitzer.org, Nov. 29, 2000

Wei Zhang, Mary W. Roederer, Wang-Qing Chen, Lan Fan, and Hong-Hao Zhou, "Pharmacogenetics of Drugs Withdrawn from the Market," Pharmacogenomics, www.medscape com, 2012



Merck Killed More US Americans With Vioxx Than Saudi Terrorists did With Planes on 911

ProCon.org's description of the damage wrought by Vioxx —"linked to about 27,785 heart attacks or sudden cardiac deaths between May 20, 1999 and 2003" is an understatement, given the publication in Lancet of the FDA's expert on the subject, David Graham, MD.

The FDA approved Vioxx (after a hasty "priority review") in May, 1999 to treat osteoarthritis, acute pain, and menstrual cramps. By September 30, 2004, when Merck announced its "voluntary recall," some 25 million Americans had been prescribed it. Graham's data indicated that using Vioxx doubled a patient's risk of suffering a heart attack or stroke —based on a review of 1.4 million patients' records. Some 140,000 Americans had suffered Vioxx-induced heart attacks and strokes; 55,000 died, and many more were permanently disabled.

Some 3,000 Americans died in the attack on the World Trade Center. The deahs inflicted by Merck executives were not as dramatic, obviously, but were every bit as intentional. An early clinical trial had alerted them to the fact that Vioxx caused coronary damage. Their response was to exclude from future trials anyone with a history of heart trouble.

Will the real terrorists please stand up?