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sell for $100 to $15,000 a piece (E. Pennisi, Science 288,
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In 2009, USDA counted 1,131,076 animals used for
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Animals caught in this bureaucratic thicket are dosed
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Non-animal modes can now replace most animal experi-
ments. But animals come cheap and old habits die hard.
by Brenda Shoss
At the University of California, Davis, Dr. Kenneth Britten
annually receives $220,000 to anchor restraining devices
to the heads of rhesus monkeys and graft coils into their
eyes. In 2001, Emory University acquired about
$118,185,010 for researchers such as Garret Alexander
to route electrodes into the brains of macaque monkeys.
Restrained, fluid-deprived monkeys do behavioral drills to
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Dr. Madeleine Schlag-Rey of UCLA and Dr. Richard
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RECALL HALL OF SHAME

1998-2005: Serious adverse drug events (death, birth defect, disability, hospitalization) due to drug treatments more than double in U.S. Annual reports grow from 34,966 to 89,842 at end of study period. Deaths due to drugs jump from 5,519 to 15,107. Institute for Safe Medication Practices, serious adverse drug events reported to FDA, Archives of Internal Medicine, 2007

Sample Of Thousands of Animal-To-Human Blunders

**ZELNORM** (Tegaserod): Animal-tested drug for gastrointestinal dysfunction. FDA safety analysis shows heightened chance for heart attack, stroke and cardiac chest pain in users.


**MILRINONE** (cardiac): Ups survival rate for rats with induced heart failure. In human users, a 30% rise in mortality.


**ISUPREL** (epinephrine): Approved in animal tests. Stimulates pulmonary edema, breathing complications, possible death in humans.

**SUPROFEN** (anti-inflammatory): Shows promise in mice, rats, hamsters, guinea pigs, dogs, rhesus monkeys. 20% of heart failure patients form thrombocytopenia (lack of blood cells needed for clotting) and some die from the drug.

**XACUTEN** (oxycodone): Recommended dose ascertained from animal tests. 3,500 asthmatics in Great Britain die.

**UPDATES**

- **2009 / USDA Annual Report Animal Usage by Fiscal Year USDA TOTAL - ANIMALS USED IN RESEARCH: 1,131,076**
  **REALISTIC ESTIMATE: 20+ MILLION ANIMALS**
  **ANIMALS USED WITH - NO PAIN, NO DRUGS: 548,755**
  **WITH PAIN/WITH DRUGS: 354,863**
  **WITH UNRELIEVED PAIN: 76,001**

  **USDA reports omit birds, rats, mice, and farm animals used in agricultural research. These animals are NOT protected under the Animal Welfare Act, even though they comprise 90% of animals experimented upon. Moreover, statistics from the Licensing and Registration Information System (LARIS) database are incomplete. Some facilities submit reports late or not at all. USDA notes: “attempted inspections could not be performed because personnel were not available.” USDA tallies also exclude animals confined for breeding and conditioning. I.E., some 70,000 primates in breeding colonies are unaccounted for. Independent studies estimate the total more realistically at over 20 million animals used in research each year.**

- **In the U.S., National Institutes of Health (NIH) annually spends an estimated $12+ billion on animal experimentation. Total dollars spent may top $18 billion.** Other government agencies awarding animal experimentation grants: Substance Abuse and Mental Health Services (SAMHSA), Health Resources and Services Administration (HRSA), Food and Drug Administration FDA, Centers for Disease Control and Prevention (CDCP), Agency for Health Care Research and Quality (AHRQ), and Office of Assistant Secretary of Health (OASH). Taxpayers subsidize these federally allocated animal research projects.

- **3/11/09: European Union bans cosmetics testing on animals anywhere in the EU, with few exceptions.**

- **2009: University of Michigan drops dog labs from its Advanced Trauma and Life Support courses, joining New York Medical College, Washington University School Of Medicine, Saint Louis University, University of Rochester, University of Illinois...and over 90% of US/Canadian facilities that use human-focused simulators alone in surgical training courses.**

- **2/18/08: U.S. Environmental Protection Agency, National Toxicology Program and National Institutes of Health form a “Memorandum of Understanding” to expand nonanimal tests and phase out animal toxicity tests for new chemicals, drugs.**

- **2008: Since the U.S. Interagency Coordinating Committee on Validation of Alternative Methods became a permanent government body in 2000 — ICCVAM’s panel has approved just 4 non-animal tests (from 185 reviews)! The European Center for Evaluation of Alternative Methods (ECVAM) has 34 human-focused methods in place, with 170 more under evaluation.**

- **Fiscal 2005: Same experiments over and over...**

  **DRUG ADDICTION: 1200 projects ($495,600,000). NEURAL INFORMATION PROCESSING: 778 projects, 11 species, $321,314,000...**

  **The government pays for redundance and multiple institutions profit.**

  | Univ of CA, S.F.: $203,196,000 | Johns Hopkins: $256,886,000 | Yale: $199,066,000 | Vanderbilt: $170,982,000 | Duke: $162,309,000 |

  **SAE Edinburg: $194,110,000**

  **Harvard: $441,273,869**

  **Stanford: $164,374,000**

  **Emory: $239,303,364**

  **Baylor: $173,047,000...**

- **Recalls of anti-inflammatory: Recalled anti-inflammatory drugs, such as: Recalled anti-inflammatories: Salicylates and Phenylpropanolamine.**

  **Wynforts/Salicylates: Tests safe in rats, dogs, cats, guinea pigs.**

  **PHENYLPROPANOLAMINE [PPA]: - 7,000 humans and 23 deaths.**

  **Global recall 1993; users show higher chance for heart attack, stroke and death.**

  **CHLORAMPHENICOL (antibiotic): Dogs are okay on it, cats die, cows tolerate it, horses don’t. In susceptible humans, this antibiotic leads to life-threatening anemia and is toxic its use is illegal in animals used for food.**

  **CLIOQUINOL (anti-diarrheal): Proven “safe” in animals. Seizures, psychosis in people.**

  **DIETHYLSTILBESTROL (synthetic estrogen): After safety data from animals give this miscarriage-deterrent the green light, it actually ups rate of spontaneous abortions, premature births and neo-natal deaths in women.**

  **ERALDIN (cardiac): Tests safe in mice, rats, dogs, and monkeys. Withdrawn in after prompting acute side effects in 7,000 humans and 23 deaths.**

  **FLOXIN (antibiotic): Dogs tests safe in mice, rats, rabbits, guinea pigs. Global recall 1993; users show higher risk for hospitalization and/or death.**

  **METHYSERGIDE (migraine): Symptoms can’t be duplicated in animals. Severe scarring of human heart, kidneys, abdominal blood vessels.**

  **OPREN (rheumatism, arthritis): No adverse effects in monkey tests for 9 years, others. Recalled: 61 human deaths, 3,500 harmful reactions.**

  **PHENYLPROPANOLAMINE (PPA) [cold/flu remedies]: FDA-banned after association with 200-500 strokes in young women per year.**

  **PRIMACOR (cardiac/circulatory): Okay in rats: 30% death increase in people.**

  **RITODRINE (deter premature labor): Approved in animal tests. Stimulates pulmonary edema, breathing complications, possible death in humans.**

  **SUPROFEN (arthritis): Animal tests show “No cardiac, renal or central nervous system [side effects] in any species.” People suffer kidney toxicity.**

  **TAMOXIFEN (breast cancer): Harmless tests safe in monkeys, rabbits. Non-predicted human effects: nausea, vomiting. Tied to uterine cancer, blood clots, memory loss, no periods, cataracts.**