

ANIMAL TESTING: SCIENCE OR FICTION?

MPs, medical professionals and scientists unite in demanding a thorough evaluation of the utility of vivisection BY KATHY ARCHIBALD SCIENCE DIRECTOR OF EUROPEANS FOR MEDICAL PROGRESS

Most of us know that cancer, heart disease and stroke are the leading causes of death in the West. But many people would be surprised by the next biggest killer: side effects of prescription medicines. Adverse drug reactions kill more than 10,000 people a year in the UK (and more than 100,000 in the US), costing the NHS alone £466m per year.

The pharmaceutical establishment constantly reassures us that all drugs are tested for safety and efficacy on animals before they can be administered to humans. When challenged about the ethics of vivisection, their defence typically goes like this: 'Which do you think is more important: your child's life or a rat's?' Given this choice most people would thankfully sacrifice the rat.

But what if you were told that the current animal testing procedures are seriously flawed? Consider the following evidence:

- Arthritis drug Vioxx, withdrawn from the global market in September 2004, appeared to be safe and even beneficial to the heart in animals, but caused as many as 140,000 heart attacks and strokes in the US alone. The associate safety director of the US Food and Drug Administration (FDA) described it as the 'single greatest drug-safety catastrophe in the history of the world'.
- Many studies published in the scientific literature comparing drug side effects in humans and animals have found animal tests to be less predictive than tossing a coin. One review of human-animal correlation in drugs that had been withdrawn because of adverse reactions found that animal tests predicted the human side effects only six out of 114 times.

- Hundreds of drugs to treat strokes (eg, Cerestat, Maxipost, Zendra, Lotrafiban, gavestinel, nimodipine, ciomethiazole) have been found

safe and effective in animal studies and then injured or killed patients in clinical trials.

- Hormone-replacement therapy (HRT), prescribed to many millions of women because it lowered monkeys' risk of heart disease and stroke, increases women's risks of these conditions significantly. The chairman of the German Commission on the Safety of Medicines described HRT as 'the new thalidomide'. In August 2003 *The Lancet* estimated that HRT had caused 20,000 cases of breast cancer over the past decade in Britain, in addition to many thousands of heart attacks and strokes.

- Dr Richard Klausner, former director of the US National Cancer Institute (NCI), lamented: 'The history of cancer research has been a history of curing cancer in the mouse. We have cured mice of cancer for decades, and it simply didn't work in humans.' The NCI also believes

we have lost cures for cancer because they were ineffective in mice.

- Cigarette smoke, asbestos, arsenic, benzene, alcohol and glass fibres are

all safe to ingest, according to animal studies.

- Of 22 drugs shown to have been therapeutic in spinal cord injury in animals, not one is effective in humans.

- Of 20 compounds known not to cause cancer in humans, 19 do cause cancer in rodents.

- Dr Albert Sabin, the inventor of the polio vaccine, swore under oath that

Many studies published in the scientific literature comparing drug side effects in humans and animals have found animal tests to be less predictive than tossing a coin



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G Psacharopoulos



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