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Nurses Movement for Responsible Medicine (NMRM) was founded in October 2007 by Cynthia O'Neill, S.R.N., S.C.M., Q.N., H.V. to provide nurses with a channel through which they could express their concerns in relation to the high number of adverse drug reactions suffered by so many of their patients.

**The Objective of NMRM  
is the Immediate and  
Unconditional Abolition  
Of All Animal Experiments  
On Medical  
and  
Scientific Grounds**

*“My own conviction is that the study of human physiology  
by way of experiments on animals is the most grotesque and fantastic error  
ever committed in the whole range of human intellectual activity.”*

**Dr G F Walker, Medical World,  
8<sup>th</sup> December 1933**

## **Drug Testing Methods to Benefit Humans**

Adverse Drug Reactions are now acknowledged to rank as one of the principal causes of death in the UK, USA and Europe.

As stated in our issue 12 newsletter, there have always been really reliable methods of testing to benefit humans available. To name but a few, post mortem studies, clinical observations, cell and tissue cultures, in vitro test tube research on living tissue, organ cultures, epidemiologic studies etc. have all proved more valuable than animal studies. The list has been added to in modern times. We now have blood gas analysis machines, blood chemistry analysis machines, monitoring devices. There are numerous examples both past and present. When attending a Royal College of Nursing conference in 2007 our founder, Cynthia O'Neill, S.R.N., S.C.M., QN., H.V., saw a demonstration of a new life size £25,000 computer human patient model that is used in Medical Schools and is 100% proof that we now have a model that can be fed, have umpteen drugs inserted and the computer will file out all relevant facts. He/she blinks eyes, bleeds, changes temperature and does everything one can imagine. The brain behind such an engineered model shows we have proper scientific methods and, again, stresses that vivisection or animal testing is a fraud, in fact the biggest fraud in the history of the human race!

All medical schools across the U.S, Canada, and India have completely replaced the use of animal laboratories in medical training with simulators as well as virtual reality systems, computer simulators, and supervised clinical experience.

The following are a few of the modern human-based testing methods:

Organs created on computer chips that contain human cells grown in a system to mimic the structure and function of human variety of cell-based tests and tissue models can be used to assess the safety of drugs, chemicals, cosmetics, and consumer products;

Cell based tests and tissue models that can be used to evaluate chemicals for their ability to corrode or irritate the skin. All so much more advanced than using innocent animals whose skin is, of course, very different from that of humans; A 3-dimensional model of the human lung. The model, composed of human cells, can be used to study the effects of inhaling different kinds of chemicals, pathogens, and e-cigarette smoke;

## **Drug Testing Methods to Benefit Humans (continued)**

Devices made by a German-based manufacturer are used to expose human lung cells in a dish of chemicals in order to test the health effects of inhaled substances. Human cells are exposed to the airborne chemical on one side while receiving nutrients from a blood-like liquid on the other—mimicking what actually occurs when a chemical enters a human lung;

The use of human blood cells to detect contaminants in drugs that cause a potentially dangerous fever response when they enter the body;

A range of sophisticated computer models that simulate human biology and the progression of developing diseases. These models can accurately predict the ways that new drugs will react in the human body;

QSARs. Computer-based techniques that can make sophisticated estimates of a substance's likelihood of being hazardous, based on its similarity to existing substances and our knowledge of human biology. Companies and governments are increasingly using QSAR tools to avoid testing chemicals on animals;

Strikingly lifelike computerized human-patient simulators that breathe, bleed, convulse, talk, and even "die" have been shown to teach students physiology and pharmacology better than crude exercises that involve cutting up animals. The most high-tech simulators mimic illnesses and injuries and give the appropriate biological response to medical interventions and medication injections;

Advanced medical training, systems which replicate a breathing, bleeding human torso and has realistic layers of skin and tissue, ribs, and internal organs—are widely used to teach emergency surgical procedures and have been shown to impart lifesaving skills better than courses that require students to cut into live pigs, goats, or dogs.

Although scientists have state-of-the-art, effective, non-animal methods available, experimenters continue use the animal model to assess the human condition. But let us take heart from the fact that all bad old dangerous practices have to be brought to an end in the course of the world's evolution.

### **The following is an extract from the Introduction to the Fourth International Scientific Congress, Vancouver 1997 by Joy Palmer, Founder-Director, Doctors and Lawyers for Responsible Medicine (DLRM)**

...DLRM believes that medicine based on animal experimentation is unscientific, because of the insuperable barriers of species differences. Animals do not reflect human physiology, psychology or life-style. These differences inevitably lead medicine astray, resulting in harmful side-effects from drugs, misdiagnoses of existing diseases and the loss of potential cures for current health problems, as well as the creation of new diseases. This only adds to and causes further horrific suffering, both to humans and to animals.

For over a century, thousands of doctors and scientists have condemned, on both ethical and scientific grounds, the practice of animal experimentation for human medicine, recognising and acknowledging, that the differences between species render such a method misleading, and therefore invalid. Despite the sacrifice of hundreds of millions of animals, at the cost of billions of dollars, we are still no nearer finding cures for major diseases... And many new diseases arising from possible medical mistakes as well as from environmental problems, have come to plague us still further.

...It is important to understand that it is not only qualified doctors and lawyers who are, in ever-greater numbers, taking on board that responsibility of abolishing animal experimentation on scientific grounds: this responsibility is also being increasingly accepted by society at large. We must always remember the fact that all sections of the public are capable of recognising and understanding the flaws and dangers of such research. They therefore have as much right, and indeed duty, to be involved in this campaign as have the professionals. We all have a share in the responsibility – though our detractors would have us believe that the lay-person hasn't the wit or the knowledge to understand what is going on.

We now have seriously to ponder on what is being allowed to happen all over the world – and what we are bequeathing to our children. Unfortunately, this is not just scaremongering. It is a fact. We already have genetic engineering and the imminence of xenotransplantation, with their inherent dangers and potential horrors. And now we have cloning, too. Where will it all end? And what will it end – life on earth? Are we going to continue on this obviously wrong path, thus wasting the talents of great present and future doctors and scientists? We should also bear in mind the enormous waste of resources behind what has become a multi-national industry – which is a huge profit-spinner, instead of what it should be: the source of genuine cures for current illnesses and of research into preventive medicine.

What then, are we going to do? What can we do? We cannot afford to be complacent – it is not simply a question of pursuing a hobby which one can take up or leave at a whim. We need to step up our endeavours, to be prepared to make real sacrifices. We have to double and redouble our efforts NOW. There is no time to lose. ...Throughout history, it has tended to be the concerned few who have brought about great changes in civilization. We cannot leave this one to chance or to "other" people – the gamble would be too great. It is late. We all of us have a share in the burden of this responsibility.

...This, then, is our challenge – to work urgently and wholeheartedly towards achieving our goal, for the sake of all life, born and as yet unborn.