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MICROWAVE DANGERS

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Back in May of 1989, after Tom Valentine first moved to St Paul, Minnesota, he heard on the car radio a short announcement that bolted him upright in the driver's seat. The announcement was sponsored by Young Families, the Minnesota Extension Service of the University of Minnesota: "Although microwaves heat food quickly, they are not recommended for heating a baby's bottle," the announcement said. The bottle may seem cool to the touch, but the liquid inside may become extremely hot and could burn the baby's mouth and throat. Also, the buildup of steam in a closed container such as a baby's bottle could cause it to explode. "Heating the bottle in a microwave can cause slight changes in the milk. In infant formulas, there may be a loss of some vitamins. In expressed breast milk, some protective properties may be destroyed." The report went on. "Warming a bottle by holding it under tap water or by setting it in a bowl of warm water, then testing it on your wrist before feeding, may take a few minutes longer, but it is much safer." Valentine asked himself: If an established institution like the University of Minnesota can warn about the loss of particular nutrient qualities in microwaved baby formula or mother's milk, then somebody must know something about microwaving they are not telling everybody.

A LAW SUIT

In early 1991, word leaked out about a lawsuit in Oklahoma. A woman named Norma Levitt had hip surgery, only to be killed by a simple blood transfusion when a nurse "warmed the blood for the transfusion in a microwave oven"! Logic suggests that if heating or cooking is all there is to it, then it doesn't matter what mode of heating technology one uses. However, it is quite apparent that there is more to 'heating' with microwaves than we've been led to believe. Blood for transfusions is routinely warmed-but not in microwave ovens! In the case of Mrs Levitt, the microwaving altered the blood and it killed her. Does it not therefore follow that this form of heating does, indeed, do 'something different' to the substances being heated? Is it not prudent to determine what that 'something different' might do? A funny thing happened on the way to the bank with all that microwave oven revenue: nobody thought about the obvious. Only 'health nuts' who are constantly aware of the value of quality nutrition discerned a problem with the widespread 'denaturing' of our food.

Enter HANS HERTEL.

In the tiny town of Wattenwil, near Basel in Switzerland, there lives a scientist who is alarmed at the lack of purity and naturalness in the many pursuits of modern mankind. He worked as a food scientist for several years with one of the many major Swiss food companies that do business

Microwave Dangers

on a global scale. A few years ago, he was fired from his job for questioning procedures in processing food because they denatured it.

"The world needs our help," Hans Hertel told Tom Valentine as they shared a fine meal at a resort hotel in Todtmoos, Germany. "We, the scientists, carry the main responsibility for the present unacceptable conditions. It is therefore our job to correct the situation and bring the remedy to the world. I am striving to bring man and techniques back into harmony with nature. We can have wonderful technologies without violating nature."

Hans is an intense man, driven by personal knowledge of violations of nature by corporate man and his state-supported monopolies in science, technology and education. At the same time, as the two talked, his intensity shattered into a warm smile and he spoke of the way things could be if mankind's immense talent were to work with nature and not against her.

Hans Hertel is the first scientist to conceive of and carry out a quality study on the effects of microwaved nutrients on the blood and physiology of human beings. This small but well-controlled study pointed the firm finger at a degenerative force of microwave ovens and the food produced in them. The conclusion was clear: microwave cooking changed the nutrients so that changes took place in the participants' blood; these were not healthy changes but were changes that could cause deterioration in the human systems.

Working with Bernard H. Blanc of the Swiss Federal Institute of Technology and the University Institute for Biochemistry, Hertel not only conceived of the study and carried it out, he was one of eight participants. "To control as many variables as possible, we selected eight individuals who were strict macrobiotic diet participants from the Macrobiotic Institute at Kientel, Switzerland," Hertel explained. "We were all housed in the same hotel environment for eight weeks. There was no smoking, no alcohol and no sex." One can readily see that this protocol makes sense. After all, how could you tell about subtle changes in a human's blood from eating microwaved food if smoking, booze, junk food, pollution, pesticides, hormones, antibiotics and everything else in the common environment were also present? "We had one American, one Canadian and six Europeans in the group. I was the oldest at 64 years, the others were in their 20s and 30s," Hertel added. Valentine published the results of this study in *Search for Health* in the Spring of 1992. But the follow-up information is available only in a later edition, and also in Acres, USA.

In intervals of two to five days, the volunteers in the study received one of the food variants on an empty stomach. The food variants were: raw milk from a biofarm (no. 1); the same milk conventionally cooked (no. 2); pasteurised milk from Intermilk Berne (no. 3); the same raw milk cooked in a microwave oven (no. 4); raw vegetables from an organic farm (no. 5); the same vegetables cooked conventionally (no. 6); the same vegetables frozen and defrosted in the microwave oven (no. 7); and the same vegetables cooked in the microwave oven (no. 8). The overall experiment had some of the earmarks of the Pottenger cat studies, except that now human beings were test objects, the experiment's time-frame was shorter, and a new heat form was tested.

Once the volunteers were isolated at the resort hotel, the test began. Blood samples were taken from every volunteer immediately before eating. Then blood samples were taken at defined intervals after eating from the above-numbered milk or vegetable preparations.

Significant changes were discovered in the blood of the volunteers who consumed foods cooked in the microwave oven. These changes included a decrease in all haemoglobin values and cholesterol values, especially the HDL (good cholesterol) and LDL (bad cholesterol) values and ratio. Lymphocytes (white blood cells) showed a more distinct short-term decrease following the intake of microwaved food than after the intake of all the other variants. Each of these indicators point in a direction away from robust health and toward degeneration. Additionally, there was a highly significant association between the amount of microwave energy in the test foods and the luminous power of luminescent bacteria exposed to serum from test persons who ate that food.

Microwave Dangers

This led Hertel to the conclusion that such technically derived energies may, indeed, be passed along to man inductively via consumption of microwaved food. "This process is based on physical principles and has already been confirmed in the literature," Hertel explained. The apparent additional energy exhibited by the luminescent bacteria was merely extra confirmation. "There is extensive scientific literature concerning the hazardous effects of direct microwave radiation on living systems," Hertel continued. "It is astonishing, therefore, to realise how little effort has been made to replace this detrimental technique of microwaves with technology more in accordance with nature. "Technically produced microwaves are based on the principle of alternating current. Atoms, molecules and cells hit by this hard electromagnetic radiation are forced to reverse polarity 1 to 100 billion times a second. There are no atoms, molecules or cells of any organic system able to withstand such a violent, destructive power for any extended period of time, not even in the low energy range of milliwatts."Of all the natural substances-which are polar-the oxygen of water molecules reacts most sensitively. This is how microwave cooking heat is generated-friction from this violence in water molecules. Structures of molecules are torn apart, molecules are forcefully deformed (called structural isomerism) and thus become impaired in quality.

HEATING FOOD

"This is contrary to conventional heating of food, in which heat transfers convectionally from without to within. Cooking by microwaves begins within the cells and molecules where water is present and where the energy is transformed into frictional heat."

The question naturally arises: What about microwaves from the sun? Aren't they harmful? Hertel responded: "The microwaves from the Sun are based on principles of pulsed direct current. These rays create no frictional heat in organic substance." In addition to violent frictional heat effects (called thermic effects), there are also athermic effects which have hardly ever been taken into account, Hertel added. "These athermic effects are not presently measurable, but they can also deform the structures of molecules and have qualitative consequences. For example, the weakening of cell membranes by microwaves is used in the field of gene altering technology. Because of the force involved, the cells are actually broken, thereby neutralising the electrical potentials-the very life of the cells-between the outer and inner sides of the cell membranes. Impaired cells become easy prey for viruses, fungi and other micro-organisms. The natural repair mechanisms are suppressed, and cells are forced to adapt to a state of energy emergency: they switch from aerobic to anaerobic respiration. Instead of water and carbon dioxide, hydrogen peroxide and carbon monoxide are produced." It has long been pointed out in the literature that any reversal of healthy cell processes may occur because of a number of reasons, and our cells then revert from a "robust oxidation" to an unhealthy "fermentation". The same violent friction and athermic deformations that can occur in our bodies when we are subjected to radar or microwaves, happens to the molecules in the food cooked in a microwave oven. In fact, when anyone microwaves food, the oven exerts a power input of about 1,000 watts or more. This radiation results in destruction and deformation of molecules of food, and in the formation of new compounds (called radiolytic compounds) unknown to man and nature. Today's established science and technology argues forcefully that microwaved food and irradiated foods do not have any significantly higher "radiolytic compounds" than do broiled, baked or other conventionally cooked foods-but microwaving does produce more of these critters. Curiously, neither established science nor our ever-protective government has conducted tests-on the blood of the eaters-of the effects of eating various kinds of cooked foods. Hertel and his group did test it, and the indication is clear that something is amiss and that larger studies should be funded.

The apparently toxic effects of microwave cooking is another in a long list of unnatural additives in our daily diets. However, the establishment has not taken kindly to this work. "The first drawing of blood samples took place on an empty stomach at 7.45 each morning," Hertel

explained. "The second drawing of blood took place 15 minutes after the food intake. The third drawing was two hours later." >From each sample, 50 millilitres of blood was used for the chemistry and five millimetres for the haematology and the luminescence. The haematological examinations took place immediately after drawing the samples. Erythrocytes, haemoglobin, mean haemoglobin concentration, mean haemoglobin content, leukocytes and lymphocytes were measured. The chemical analysis consisted of iron, total cholesterol, HDL cholesterol and LDL cholesterol. The results of erythrocyte, haemoglobin, haematocrit and leukocyte determinations were at the "lower limits of normal" in those tested following the eating of the microwaved samples. "These results show anaemic tendencies.

The situation became even more pronounced during the second month of the study," Hertel added. "And with those decreasing values, there was a corresponding increase of cholesterol values." Hertel admits that stress factors, from getting punctured for the blood samples so often each day, for example, cannot be ruled out, but the established baseline for each individual became the "zero values" marker, and only changes from the zero values were statistically determined. With only one round of test substances completed, the different effects between conventionally prepared food and microwaved food were marginal-although noticed as definite "tendencies". As the test continued, the differences in the blood markers became "statistically significant". The changes are generally considered to be signs of stress on the body. For example, erythrocytes tended to increase after eating vegetables from the microwave oven. Haemoglobin and both of the mean concentration and content haemoglobin markers also tended to decrease significantly after eating the microwaved substances.

LEUKOCYTOSIS

"Leukocytosis," Hertel explained, "which cannot be accounted for by normal daily deviations such as following the intake of food, is taken seriously by haematologists. Leukocyte response is especially sensitive to stress. They are often signs of pathogenic effects on the living system, such as poisoning and cell damage. The increase of leukocytes with the microwaved foods was more pronounced than with all the other variants. It appears that these marked increases were caused entirely by ingesting the microwaved substances." The cholesterol markers were very interesting, Hertel stressed: "Common scientific belief states that cholesterol values usually alter slowly over longer periods of time. In this study, the markers increased rapidly after the consumption of the microwaved vegetables. However, with milk, the cholesterol values remained the same and even decreased with the raw milk significantly." Hertel believes his study tends to confirm newer scientific data that suggest cholesterol may rapidly increase in the blood secondary to acute stress. "Also," he added, "blood cholesterol levels are less influenced by cholesterol content of food than by stress factors. Such stress-causing factors can apparently consist of foods which contain virtually no cholesterol-the microwaved vegetables." It is plain to see that this individually financed and conducted study has enough meat in it to make anyone with a modicum of common sense sit up and take notice. Food from the microwave oven caused abnormal changes, representing stress, to occur in the blood of all the test individuals. Biological individuality, a key variable that makes a mockery of many allegedly scientific studies, was well accounted for by the established baselines. So, how has the brilliant world of modern technology, medicine and 'protect the public' government reacted to this impressive effort? A GAG ORDER As soon as Hertel and Blanc announced their results, the hammer of authority slammed down on them. A powerful trade organisation, the Swiss Association of Dealers for Electroapparatuses for Households and Industry, known simply as FEA, struck swiftly. They forced the President of the Court of Seftigen, Kanton Bern, to issue a 'gag order' against Hertel and Blanc. The attack was so ferocious that Blanc quickly recanted his support-but it was too late. He had already put into writing his views on the validity of the studies where he concurred with the opinion that microwaved food caused the blood abnormalities. Hertel stood his ground, and today is steadfastly demanding his rights to a trial. Preliminary hearings on the matter have

Microwave Dangers

been appealed to higher courts, and it's quite obvious the powers that be do not want a 'show trial' to erupt on this issue. In March 1993, the court handed down this decision based upon the complaint of the FEA:"Consideration. 1. Request from the plaintiff (FEA) to prohibit the defendant (Dr Ing. Hans Hertel) from declaring that food prepared in the microwave oven shall be dangerous to health and lead to changes in the blood of consumers, giving reference to pathologic troubles as also indicative for the beginning of a cancerous process. The defendant shall be prohibited from repeating such a statement in publications and in public talks by punishment laid down in the law. 2. The jurisdiction of the judge is given according to law. 3. The active legitimacy of the plaintiff is given according to the law. 4. The passive legitimacy of the defendant is given by the fact that he is the author of the polemic [published study] in question, especially since the present new and revised law allows to exclude the necessity of a competitive situation, therefore delinquents may also be persons who are not co-competitors, but may damage the competing position of others by mere declarations. [Apparently, Swiss corporations have lobbied in a law that nails "delinquents" who disparage products and might do damage to commerce by such remarks. So far, the US Constitution still preserves freedom of the press.] 5. Considering the relevant situation it is referred to three publications: the public renunciation [sic] of the so-called co-author Professor Bernard Blanc, the expertise of Professor Teuber [expert witness from the FEA] about the above-mentioned publication, the opinion of the public health authorities with regard to the present stage of research with microwave ovens as well as to repeated statements from the side of the defendant about the danger of such ovens. 6. It is not considered of importance whether or not the polemic of the defendant meets the approval of the public, because all that is necessary is that a possibility exists that such a statement could find approval with people not being experts themselves. Also, advertising involving fear is not allowed and is always disqualified by the law. The necessity for a fast interference is in no case more advised than in the processes of competition. Basically, the defendant has the right to defend himself against such accusations. This right, however, in cases of pressing danger with regard to impairing the rights of the plaintiff when this is requested.

Conclusion. On grounds of this pending request of the plaintiff, the court arrives at the conclusion that because of special presuppositions as in this case, a definite disadvantage for the plaintiff does exist, which may not easily be repaired, and therefore must be considered to be of immediate danger. The case thus warrants the request of the plaintiff to be justified, even without hearing the defendant. Also, because it is not known when the defendant will bring further statements into the public. The judge is also of the opinion that because the publications are made up to appear as scientific, and therefore especially reliable-looking, they may cause additional bad disadvantages. It must be added that there does obviously not exist a just reason for this publication because there is no public interest for pseudo-scientific unproved declarations. Finally, these ordered measures do not prove to be disproportionate. The defendant is prohibited, under punishment of up to F5,000, or up to one year in prison, to declare that food prepared in microwave ovens is dangerous to health and leads to pathologic troubles as also indicative for the beginning of a cancerous process. The plaintiff pays the costs. (Signed) President of the Court of Seftigen Kraemer." If you cannot imagine this kind of decision coming from a court in the United States, you have not been paying attention to the advances of administrative law. Hertel defied the court and has loudly demanded a fair hearing on the truth of his claims. The court has continued to delay, dodge, appeal and avoid any media-catching confrontation. As of this writing, Hans is still waiting for a hearing with media coverage-and he's still talking and publishing his findings. "They have not been able to intimidate me into silence, and I will not accept their conditions," Hertel declared. "I have appeared at large seminars in Germany, and the study results have been well-received. Also, I think the authorities are aware that scientists at Ciba-Geigy [the world's largest pharmaceutical company, headquartered in

Microwave Dangers

Switzerland] have vowed to support me in court." As those powerful special interests in Switzerland who desire to sell microwave ovens by the millions continued to suppress open debate on this vital issue for modern civilisation, new microwave developments blossomed in the United States.

INFANT DANGER

In the journal *Pediatrics* (vol. 89, no. 4, April 1992), there appeared an article titled, "Effects of Microwave Radiation on Anti-infective Factors in Human Milk". Richard Quan, M.D. from Dallas, Texas, was the lead name of the study team. John A. Kerner, M.D., from Stanford University, was also on the research team, and he was quoted in a summary article on the research that appeared in the 25 April 1992 issue of *Science News*. To get the full flavour of what may lie ahead for microwaving, here is that summary article: "Women who work outside the home can express and store breast milk for feedings when they are away. But parents and caregivers should be careful how they warm this milk. A new study shows that microwaving human milk-even at a low setting-can destroy some of its important disease-fighting capabilities. "Breast milk can be refrigerated safely for a few days or frozen for up to a month; however, studies have shown that heating the milk well above body temperature-37°ree;C-can break down not only its antibodies to infectious agents, but also its lysozymes or bacteria-digesting enzymes. So, when paediatrician John A. Kerner, Jr, witnessed neonatal nurses routinely thawing or reheating breast milk with the microwave oven in their lounge, he became concerned.

"In the April 1992 issue of *Pediatrics* (Part I), he and his Stanford University co-workers reported finding that unheated breast milk that was microwaved lost lysozyme activity, antibodies and fostered the growth of more potentially pathogenic bacteria. Milk heated at a high setting (72°ree;C to 98°ree;C) lost 96 per cent of its immunoglobulin-A antibodies, agents that fend off invading microbes. "What really surprised him, Kerner said, was finding some loss of anti-infective properties in the milk microwaved at a low setting-and to a mean of just 33.5°ree;C.

Adverse changes at such low temperatures suggest 'microwaving itself may in fact cause some injury to the milk above and beyond the heating'. "But Randall M. Goldblum of the University of Texas Medical Branch in Galveston disagrees, saying: 'I don't see any compelling evidence that the microwaves did any harm. It was the heating.' Lysozyme and antibody degradation in the coolest samples may simply reflect the development of small hot spots-potentially 60°ree;C or above-during microwaving, noted Madeleine Sigman-Grant of Pennsylvania State University, University Park. And that's to be expected, she said, because microwave heating is inherently uneven-and quite unpredictable when volumes less than four milliliters are involved, as was the case in the Kerner's study.

"Goldblum considers use of a microwave to thaw milk an especially bad idea, since it is likely to boil some of the milk before all has even liquefied. Stanford University Medical Center no longer microwaves breast milk, Kerner notes. And that's appropriate, Sigman-Grant believes, because of the small volumes of milk that hospitals typically serve newborns-especially premature infants."

CHASING A STORY

Journalist Tom Valentine, after chasing this story, found it interesting that 'scientists' have so many 'beliefs' to express rather than prove fact. Yet facts eventually snuff out credential-based conjecture. Researcher Quan, in a phone interview, said that he believed the results of research so far warranted further detailed study of the effects of microwave cooking on nutrients.

Microwave Dangers

The summary sentence in an abstract of the research paper is very clear: "Microwaving appears to be contra-indicated at high temperatures, and questions regarding its safety exist even at low temperatures." The final statement of the study conclusion reads: "This preliminary study suggests that microwaving human milk could be detrimental. Further studies are needed to determine whether and how microwaving could safely be done."

Unfortunately, further studies are not scheduled at this time. If there are so many indications that the effects of microwaves on foods can degrade the foods far above the known breakdowns of standard cooking, is it not reasonable to conduct exhaustive studies on living, breathing human beings to determine if it's possible that eating microwaved foods continuously, as many people do, can be significantly detrimental to individual health?

If you wanted to introduce a herbal supplement into the American mainstream and make any health claims for it, you would be subjected to exhaustive documentation and costly research. Yet the microwave-oven industry had only to prove that the dangerous microwaves could, indeed, be contained within the oven and not escape into the surrounding area where the radiation could do damage to people. The industry must admit that some microwaves escape even in the best-made ovens.

So far, not one thought has been given by the industry to the possibility that the nutrients could be so altered as to be deleterious to health. Well, this makes sense in a land that encourages farmers to poison crops and soils with massive amounts of synthesised chemicals, and encourages food processors to use additives that enhance shelf-life of foods regardless of the potential for degrading the health of the consumer. How many hundreds of pounds of microwaved food per capita is consumed in America each year? Are we going to continue to take it from established authority, without question, on the premise that they know best?

Recent research shows that microwave oven cooked food suffers severe molecular damage. When eaten, it causes abnormal changes in human blood and immune systems. Not surprisingly, the public has been denied details on these significant health dangers. Significant changes were discovered in the blood of volunteers who consumed foods cooked in a microwave oven. These changes included a decrease in all haemoglobin values and cholesterol values.

Lymphocytes (white blood cells) showed a more distinct short-term decrease following intake of microwaved food. A number of warnings have been made public.

For example, The University of Minnesota has stated that: "...Heating (a baby's bottle) in a microwave can cause slight changes in the milk. In infant formulas, there may be a loss of some vitamins. In expressed breast milk, some protective properties may be destroyed".

This is of course, expressed in the mildest form so as not to cause panic. Furthermore, a lawsuit in 1991, attempted to obtain compensation for the family of a woman who died, after the blood being used for a transfusion was heated in a microwave.

Essentially, a microwave works by passing microwaves (high energy radiation of approx. 1010 Hz) through the food. This causes the reactive oxygen in the water molecules present in the food to vibrate violently. The friction caused by this movement generates heat; it also causes substantial damage to the surrounding molecules, often tearing them apart, or forcefully

deforming them (called structural isomerism). This deformation can impair the quality of nutrients.

**Follow-up on Hertel excerpted from:
Cooked
by William Thomas
Published in Alive magazine**

... [Hertel] stuck by his findings. In an ironically confirming commentary on his findings, Hertel was forbidden by a Swiss court from publicly "declaring that food prepared in microwave ovens shall be dangerous to health and lead to changes in the blood of consumers, giving reference to pathologic troubles as also indicative for the beginning of a cancerous process."

The unrepentant Hertel continued giving seminars in Germany, where he says his study results "have been well-received." In August, 1998, the court decision was reversed when the European Court of Human Rights at Strasbourg ruled that the earlier Swiss "gag order" forbidding the Bernese scientist from declaring that microwave ovens pose human health risks contravened Hertel's right to freedom of expression. The Euro court ordered Switzerland [to pay] F-40,000 in compensation for Hertel's legal costs in a decision hailed by Nexus magazine as "an end to judicial censorship of persons drawing attention to the health hazards of certain products."

This information was obtained from the April-May (1995) issue of Nexus magazine and from Jerry Adams

Microwave Leakage Can Cause:

- Skin Cancer Temporary Sterility (men)
- Birth Defects(women)
- Cataracts
- Dizziness and Headaches
- Blood Disorders
-

MICROWAVE Radiation Leakage; what is it?

Microwave radiation is odorless and invisible and therefore hard to detect. Microwave oven radiation is present whenever a microwave oven is turned on. The microwave energy causes the water molecules in the food to vibrate rapidly. This rapid vibration produces heat which, in turn, cooks the food. It can also penetrate through living tissue which is why exposure is harmful to our health. Once you turn off the oven, the microwaves disappear but until then, you may be exposing yourself to dangerous levels of radiation leakage.

Do Microwaves Leak?

A survey conducted among the Professional Service Associates, a group of microwave repair servicemen, indicated that over 56% of microwave ovens two years or older leaked levels of radiation 10% higher than the safety standards set by the FDA. More often than not, a simple adjustment was all that was needed to stop the leakage.

Microwave Dangers

What Causes Microwave Ovens To Leak?

Slamming the oven door, dirt or food particles caught in the door seals and hinges, or basic wear and tear all cause the oven door to slightly separate from the oven enclosure. Once this happens, invisible, but highly dangerous microwaves leak through the small space and cause irreversible damage and injury to the user.

How Dangerous are Microwaves to People?

The FDA has established microwave radiation exposure levels greater than 5mw/cm² to be dangerous, but many medical experts disagree and think this level should be lowered.

Independent studies have revealed levels much lower can cause:

- Cataracts
- Skin Cancer
- Headaches and Dizziness
- Blood Disorders *
- Birth Defects in Pregnant Women
- Central Nervous System Damage
- Temporary Sterility in Men Cardiovascular Problems
- Interference with some Pacemakers
- Increased Stress

Decrease in Immune System Competency Particularly vulnerable to excessive microwave radiation is the developing fetus. The lens of the eye and the testes are also vulnerable because of the body's inability to cool down these areas. There are Safety Tips for reducing the risks associated with microwave radiation.

How Can I Tell if My Microwave Oven Leaks? There are inexpensive products available in most hardware stores used to test for hazardous leaks. One such product is the Detecto Card by Enzone. If you do have a dangerous leak, you should not use the microwave oven until it is properly repaired.