

# Effects of Microwaves on Humans

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## RESEARCH HISTORY

**T**HE MICROWAVE COOKING OVENS were originally researched and developed by the Nazis for use by the mobile support operations for the invasion of the Soviet Union. By being able to utilize electronic equipment for preparation of meals on a mass-scale, the logistical problem of cooking fuels would have been eliminated, as well as the convenience of producing edible products in a greatly reduced time-factor.

After the close of World War II, the Allies discovered the medical research and documentation concerning these apparatuses. These documents and the experimental microwave equipment was transferred to the *U.S. War Department*, and classified for reference and scientific investigation. The Soviet Union also retrieved some of the devices, and proceeded to undertake experimentation on a separate basis.

The Russians have been the most diligent in their research on the biological effects of microwave ovens, and have outlawed their use, and have also issued an international warning concerning the possible biological and environmental damage that can be caused by the use of this similar-frequency electronic apparatus.

## FORENSIC RESEARCH ACTIVITIES SUMMARY

**T**HE FOLLOWING are the most significant German and Russian research operations facilities concerning the biological effects of microwaves: the initial research conducted by the Germans during the Barbarossa military campaign, at the *Humboldt-Universität zu Berlin* (1942-1943); then, beginning in 1957 and up to the present, the Russian research operations are being conducted at the *Institute of Radio Technology* at Kinsk, Byelorussian Autonomous Region; also at the *Institute of Radio Technology* at Rajasthan in the Rossiskaja Autonomous Region, both in the [former] USSR.

In most cases, the foods used for research analysis were exposed to microwave propagation at a power flux density of 100 kilowatts/cm<sup>2</sup>/sec., to the point considered acceptable for sanitary, normal ingestion.

The effects noted by the German and Russian researchers will be presented in three categories:

- Category I: Cancer-Causing Effects**
- Category II: Nutritive Destruction of Foods**
- Category III: Direct Biological Effects of Exposure of Microwave Emissions on Humans.**

## CATEGORY I: CANCER-CAUSING EFFECTS

The following effects to foods were noted by the forensic teams which research microwave emissions:

1. The creation of d-nitrosodiethanolamine (a well known cancer-causing agent) in prepared meats which had been sufficiently heated to ensure sanitary ingestion;
2. Destabilization of active protein biomolecular compounds;
3. Creation of a "binding effect" to radioactivity in the atmosphere, thus causing a marked increase in the amount of alpha- and beta-particle saturation in foods;
4. Creation of cancer-causing agents within protein-hydrolysate compounds in milk and cereal grains;
5. Alteration of elemental food-substances, causing disorders in the digestive system by unstable catabolism (breakdown) of foods subjected to microwaves;
6. Due to chemical alterations within food-substances, malfunctions were observed within the lymphatic systems, causing a degeneration of the immune-potentials of the body to protect against certain forms of neoplastics (cancerous growths);
7. Ingestion of microwaved foods caused a higher percentage of cancerous cells within the blood serum (cytomas);
8. Microwave emissions caused alteration in the catabolic (breakdown) behavior of glucoside- and galactoside-elements within frozen fruits when thawed in this manner;
9. Microwave emission caused alteration of the catabolic (breakdown) behavior of plant-alkaloids (elemental substances) when raw, cooked, or frozen vegetables were exposed for even extremely short duration;
10. Cancer-causing free-radicals were formed within certain trace-mineral molecular formations in plant substances, and in particular, raw root-vegetables; and,
11. In a statistically high percentage of persons, microwaved foods caused stomach and intestinal cancerous growths, as well as a general degeneration of peripheral cellular tissues with a gradual breakdown of the function of the digestive and excretive systems.

## CATEGORY II: DECREASE IN FOOD VALUE

Microwave exposure caused significant decreases in the nutritive value of all foods researched. The following are the most important findings:

1. A decrease in the bio-availability (capability of the body to utilize the nutriment) of B-complex vitamins, vitamin C, vitamin E, essential minerals and lipotropics in all foods;
2. A loss of 60-90% of the vital-energy field content of all tested foods;

3. A reduction in the metabolic behavior and integration-process capability of alkaloids (basic plant substances in fruits and vegetables), glucosides and galactosides (basic plant substances), and nitrilosides (basic plant substances);
4. A destruction of the nutritive value of nucleoproteins in meats, and,
5. A marked acceleration of structural disintegration in all foods.

### CATEGORY III: BIOLOGICAL EFFECTS OF EXPOSURE

Exposure to microwave emissions had an unpredictably negative effect upon the general biological welfare of humans, too. This was not discovered until the Russians experimented with highly sophisticated equipment, and discovered that a human did not even need to ingest the material substance of the microwaved food substances: that even exposure to the energy-field itself was sufficient to cause such adverse side-effects that **the use of any such microwave apparatus was forbidden** in 1976 by Soviet state law.

The following are the enumerated effects:

1. A breakdown of the human "life-energy field" in those who were exposed to microwave ovens while in operation, with side-effects to the human energy field of increasingly longer duration;
2. A degeneration of the cellular voltage-parallels during the process of using the apparatus, especially in the blood and lymphatic sera;
3. A degeneration and destabilization of the external-energy activated potentials of food-utilization within the processes of human metabolism;
4. A degeneration and destabilization of the internal-cellular membrane potentials while transferring catabolic (breakdown) processes into the blood serum from the digestive process;
5. A degeneration and circuitual breakdown of electrical nerve-impulses within the junction-potentials of the cerebrum;
6. A degeneration and breakdown of nerve-electrical circuits and loss of energy-field symmetry in the neuroplexuses (nerve-centers) both in the front and the rear of the central and autonomic nervous systems;
7. Loss of balance and circuiting of the bioelectric strengths within the ascending reticular activating system (the system which controls the function of waking consciousness);
8. A long-term cumulative loss of vital energies within humans, animals and plants which were located within a 500 m radius of the operational equipment;
9. Long-lasting residual effects of magnetic "deposits" were located throughout the nervous system and lymphatic system;
10. A destabilization and interruption in the production of hormones and the maintenance of hormonal balance in males and females;
11. Markedly higher levels of brainwave disturbance in the alpha, theta, and delta-wave signal pattern of persons exposed to microwave emission fields; and,
12. Because of this brainwave disturbance, negative psychological effects were noted, including loss of memory, loss of ability to concentrate, suppressed emotional threshold, deceleration of intellective processes, and interruptive sleep episodes in a statistically higher percentage of individuals subjected to continual range-emissive field effects of microwave apparatus, either in cooking apparatus or in transmission stations.

### FORENSIC RESEARCH INDICATIONS:

From the 28 above enumerated indications, the use of microwave apparatus is definitely not advisable: and with the decision of the Soviet Government (see Introduction to Category III), present scientific opinion in many countries concerning the use of such apparatus is clearly in evidence.

Due to the problem of random magnetic residual effects and binding within the biological systems of the body (Category III, 9), which can ultimately affect the neurological systems, primarily the brain and neuroplexuses (nerve-centers), longer-term depolarization of tissue- neuroelectronic circuits can result. Because these effects can cause virtually irreparable damage to the neuroelectrical integrity of the various components of the nervous system (I. R. Luria, Novosibirsk, 1975), ingestion of microwaved foods is clearly contraindicated in all respects. Their magnetic residual effect can render the psychoneural-receptor components of the brain more subject to influence psychologically by artificially-induced microwave radio frequency fields from transmission stations and TV relay-networks.

The theoretical possibility of psychotelemetric influence (the capability of affecting human behavior by transmitted radio signals at controlled frequencies) has been suggested by Soviet neuropsychological investigators at Uralyera and Novosibirsk (Luria and Perov, 1974, 1975, 1976), which can cause involuntary subliminal psychological energy-field compliance to operative microwave apparatus.

### KOPP GOT IN THE WAY OF THE MICROWAVE OVEN LOBBY

*The original of this forensic research document is to be found in the Archives of the Atlantis Rising Educational Center in Portland, Oregon. The author William Kopp worked there from 1977 to 1979. Already twenty years ago Kopp gathered all documents known so far concerning the scientific proofs about microwaves' harmful effects on humans. By doing this he got in the way of a powerful lobby and was forced later on to even change his name and to disappear. In this paper it is particularly interesting that not only the harmfulness of the microwave radiation in itself is addressed, but also the issue that food cooked with a microwave oven is negatively affected, a fact that producers of microwave ovens vehemently negate.*

*At that time as well as today the knowledge contained in this document is extremely explosive. The only difference is that Kopp's statements are being confirmed today by a number of new scientific studies and, therefore, no longer allow doubts about their correctness. But what is most shocking is the fact that documents of this kind show that the serious danger caused by microwave radiation has been known for decades and that this knowledge has explicitly been kept back to favor money profit.*

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