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#1387

CHANGES IN THE NERVOUS SYSTEM AS A RESULT OF EXPOSURE TO MICROWAVES (Sadchikova and Orlova, 1958, 1960) 1958 study was on 391 people, in 1960 same study was related using a total of 525 people (352 men and 173 women). Control group was chosen after cases were chosen, and consisted of one hundred "teachers" matched for age.

GROUP	NUMBER EXAMINED	HEADACHE	INCREASED FATIGUE	IRRITABILITY	SOMNOLENCE	INHIBITED DERMOGRAPHIA	BRADYCARDIA	ARTERIAL HYPOTENSION	THYROID HYPERTROPHY
1	184	12%	20%	8%	2%	16%	73%	27%	15% (13%)
2	129 (263)	39%	31% (35%)	12% (27%)	19% (12%)	7% (10%)	21% (24%)	37% (28%)	--- (27%)
3	78	36%	31%	15%	19%	14%	(38%)	(32%)	52%
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Control	100	8%	10%	8%	2%	--	3%	14%	14%

Group 1, "intensive" UHF influence; Group 2, up to 1 mW/cm²; Group 3, up to 0.1 mW/cm².

The text does not mention how this population of patients was chosen, only that they were observed at the institute, and tested. They are listed as being microwave technicians, repairmen, and assemblers. Note this is not a breakdown by clinical syndrome. The text states that all 525 persons had some manifestation of the several syndromes (asthenic state, vascular-vegetative disorders with endocrine dysfunction, angiodystrophic syndrome). "The manifestation of the syndrome depends directly on the intensity and duration of the exposure." This would indicate Group 1, by implication.

Without any attempt to evaluate the data on the basis of medical considerations, readily apparent to all are it's basic faults, rendering it useless for deriving any information other than that these effects have been observed in this pre-chosen group of people. No statistical methods are employed. The control group controls nothing, just for comparison it is entered. No data regarding incidence, prevalance, population at risk (does this represent the entire industry?); is given. No time frame is listed, no frequency information is given, no control system for variables such as man-hours worked/man-hours exposed, socio-economic origin (classless?), ethnic background, shift worked, et cetera, are given. They could be describing an industrial incidence of functional disorder for all we know. Functional alterations may exist in microwave exposure. This is not the way to prove it.