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# NMRI

NAVAL MEDICAL RESEARCH INSTITUTE



SYNOPSIS OF RESEARCH BIOLOGICAL RESPONSES (STRESS) AND CLINICAL  
MANIFESTATIONS ATTRIBUTED TO INTERMITTENT AND HIGH-FREQUENCY RADIATION

UNCLASSIFIED

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REPORT NO. 2  
REVISED

RESEARCH  
DEPARTMENT OF MEDICAL  
INTEGRATION SERVICE

ETHNOGRAPHY OF DOMESTIC ECOLOGICAL SUBSYSTEMS: EFFECTS OF CULTURAL  
NORMS AND ATTITUDES ON SUBSISTENCE AND RACE-ETHNICITY DISTINCTIONS

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Research Report

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Naval Medical Research Institute  
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More than 2000 references on the biological processes of radioactivity and its effects on living organisms, published up to June 1971, are included in the bibliography.\* Particular effort has been paid to the subject of natural radioactivity and its biological effects. The citations are arranged alphabetically by author, and contain as much information as possible so as to enable a person acquainted with the original literature to locate the original office report which contributed to radioactivity and its effects on living organisms.

Office supplementary literature gives the number of citations to each class 2001.

Key Topics

Molecular Effects  
Hereditary Radiation  
Cancer Research  
Radio Veterinary Radiation  
Microbial Radiation  
Radioisotopes  
Isotopes  
Classification of Radiation Effects

The comments, appraisals and criticisms of our literature made in this report, and the recommendations and conclusions suggested, are those of the author, and do not necessarily reflect the views of the Army Department or of the Small Research.

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Official research reports, bibliographies (Current to April 1972)

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Over 2000 references on the biological responses to radio frequency and microwave radiation, published up to April 1972, are included in this bibliography of the world literature. Extensive attention has been paid to the effects on man of radiofrequency radiation at these frequencies. The references are arranged alphabetically by author, and contain as much information as available on the source including abstract of the original document. Most of the references listed are included in a series of reports on the effects which have been published by Radio Frequency and Microwave Exposure in Animals, Vol. 1, No. 1, 1972. The series is published by the National Bureau of Standards (NBS) in cooperation with the National Institute of Environmental Health Sciences, and has incorporated many references and abstracts of the original 2000 citations.

2021-2022  
Annual Report

DESCRIPTION	AMOUNT	PERCENT	TOTAL	REMARKS
1. Salaries and wages 2. Social Security tax 3. Medical insurance 4. Workers' compensation 5. Pension plan 6. Health insurance 7. Life insurance 8. Other employee benefits 9. Total employee benefits				

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## Foreword

It is the hope of the author that this bibliography will provide guidance to the diffuse and conflicting literature on the biological responses to electromagnetic radiation at radio- and microwave-frequencies, with particular reference to the effects of concern to man. Such guidance is needed in the formulation and appraisal of criteria and limits of human exposure to "bio-effective" radiation, and in the planning and conduct of future research.

The original plan was to paraphrase and key the literature citations to the "outline of biological and clinical effects" (Chapter I). This proved to be a more difficult and time-consuming task than anticipated, and was actually completed only for about 100 papers. Thus, the lower-number combinations given in square brackets for some of the "A" through "G" citations refer to the outline. [ ] indicates the citation has been verified.

The standard format used throughout the bibliography is: author, (year), journal, volume, (page) page, "title". The authors are alphabetized, and in chronological order. Multiple authors are also alphabetized, except according to the second, third, etc., author. Biological pagination is given where possible, as is the original language of the citation. Report accession and translation numbers (some of which are given in Appendix A), and alternate authors are listed when known. The title of books is underlined, when the title of the report was not available (or not given), a short (one line) description of the paper is listed wherever possible. Subjects in which the name of the author was not given are listed chronologically using the format, "title", reference, source, (year). In many cases the citation was obtained from secondary (and tertiary) sources. For this reason it was impossible to put every citation into a standard format.

A few cases, papers have been cited which were presented as symposia or meetings devoted to the present topic, even when the report title suggests that it does not pertain directly to the topic. This has been done to show the wide range of issues considered relevant (at least at the time of the meeting, and by the organizing chairman) in past years, as exemplified by "Electromagnetic",

A few citations of mutual and/or peripheral relationships have also been included so that the reader may judge the applicability to his individual research work. Examples are reports dealing with the biological effects of static and alternating magnetic fields, experimental techniques using radio frequency and microwave radiation (e.g., electron spin resonance, and nuclear magnetic resonance spectroscopy), and microwave exposure limits, regulations, and standards.

References for a few hundred citations for government reports are available upon request.

The entire reference bibliography which will consist of 1000 and will cover both of which are listed below. Copies of the papers will be generally approached, and would encourage updating and revising the bibliography periodically.

#### ACKNOWLEDGMENTS

The assistance and support received during the preparation of this bibliography have been acknowledged, and we are happy to acknowledge our indebtedness to the following: Drs. John Francis and Harold Collins, former operational heads of the Hydrology Division, and Dr. Seymour Pedone, Director of the Environmental Hydrology Department of the Naval Medical Research Institute, provided us the opportunity to work on the bibliography, and offered frequent encouragement.

Acknowledgment is also due to many friends and associates for their helpful suggestions, comments, and their generous gift of papers or other material, which have been invaluable in the course of the work. Mr. Glenn Baker of the Navy Ship Hydrographer, Darter established an excellent collection of government reports and documents, many of which had not previously been cited in the open literature.

Special help in tracing and in the acquisition of valuable papers has been received from the librarians and staff members of the NMEI Library: Mrs. Thelma Robinson, Mrs. Florence Swadlow, Mrs. Eleanor Capps, and Miss Amanda Jones. Their diligence and conscientiousness in tracing and obtaining copies of a large number of papers and reports, often in spite of incomplete and/or inaccurate citations given to their search, enabled us to include many relevant items in the bibliography.

Mr. Christopher Lodge of the Scientific and Technical Center, Department of the Navy, provided much of the Soviet Bloc literature, linguistic and other technical assistance, and in addition offered valuable comments and encouragement throughout the preparation of this report. Especially noteworthy were the corrections and improvements suggested by him following the reading of the entire manuscript.

Additional help in locating some of the Soviet literature was Mr. H. S. Pechenkinov, of the Foreign and Technology Division, The Library of Congress.

Credit is due Mrs. Ross Rose (of this Unit) for considerable help of the German papers; to Dr. Willie Nelson, who translated from the Russian, and to Mrs. Edith Long who typed many "time deaths"; also to Mrs. Ruth Glasser for her help in many aspects of the work.

Mrs. Paula Spinks (formerly) provided assistance for the accumulating material and documents, and especially for the typing, organization, and checking of the entire report.



The actions of Assessed Biological Processes (ABPs) and Clinical Investigations attributed to Micro-wave and Radio-Frequency Radiation, is presented below that given by R. Farina, et al., in an article entitled, "How safe are microwaves", which appeared in Health Letter Number 111:7-8 (1961). Some of the 'effects' were listed in the report by S. J. Chaney and H. T. Lee, Jr., entitled, "Considerations in the utilization of the biological effects as evidence in microwave testing", (Agency Report No. 1, 1964, for the Task Force on Research Planning in Environmental Health, National Panel on Physical Factors in the Environment). The discussions and suggestions offered by Spencer Holmes, Edward Fluck, Leslie Goodman, and Christopher Wedge relating to the article are also gratefully acknowledged.

Preparation of the bibliography was supported by the Bureau of Medicine and Surgery, Department of the Navy, under contract N01-57-12, 524, 015-61743.

(SUMMARY)

Depressed Endothelial Development (Effect\*) on the  
Clinical Manifestations of Diabetes  
and Endothelium Dysfunction (See Table)

a. "Timing of Impact" (Effect) on: 1) Glycemia, 2) Endothelium, 3) Blood  
Coagulation, 4) Hemostatic Control, 5) Endothelium

1. High Body Temperature (increased vascular), hyperglycemia
  2. Side
  3. Bone and Bone Marrow
  4. (a) Lack of low (permeability) control - due to the advanced  
state of the endothelium, pericyte growth and migration and  
(b) Bone marrow dysfunction - due to increased vascular permeability
  5. The lack of normal regulation of endothelium
  6. Side
  7. Glycemia
  8. Blood Pressure (more than 150/90, mmHg)
- The effects are clinically reversible except for 8.

b. Changes in endothelial function

1. Altered Vascular Permeability
2. Alteration of Vascular Blood Vessels (increased vascular  
permeability), dilation
3. Changes in the Endothelial Response to Insulin and Angiotensin
4. Altered Hemostasis
5. Altered Sensitivity to Drug Stimuli
6. Increased Permeability (increased vascular, hyperglycemia)
7. Altered Bone Marrow (bone growth)
8. Altered Vascular Function
9. Altered Tissue Development
10. Increased Vascular Inflammation (endothelial dysfunction)
11. Induction of Vascular Cell Proliferation, which also causes
12. Altered Vascular Function (increased vascular permeability)
13. Altered Vascular Function (increased vascular permeability)
14. Altered Vascular Function (increased vascular permeability)
15. Changes in the Structure of Endothelial Cells (a) in the  
endothelium (b) in the vessel wall
16. Altered Blood Flow

\* It is also suggested that the results of endothelial dysfunction produce a positive  
effect - "hyperglycemia".

Notes: These effects are listed in Table 1 of the Summary of the Endothelial Dysfunction  
in Diabetes with endothelial dysfunction. It is suggested that the effects  
regarding an "effect" was a simple or a more detailed observation which  
may have been drawn from a single observed and possibly repeated event.

17. Alterations in the Myoelectric (MEM) of the Cervical Sarcoplasm [in muscle]
18. Changes in the Area of Clearance of Tryptophan from Plasma
19. Neurologic Structural Changes in the Cervical Sarcoplasm and the Myoelectricity
20. Electroencephalographic (EEG) Changes
21. Altered Response to Stimulation of Light, Sound, and Olfactory Stimuli
22. Functional (a) and Pathological (b) changes in the Eyes: (a) decrease in size of blind spots, altered color receptors, changes in subvascular processes, lacrimation, unweaving of eyelids; (b) lens opacity and cataracts, altered vision receptors, and altered reticular-ocular processes
23. Myocardial Perforation
24. Hemorrhage in Lungs, Liver, Kidney, and Brain } At: Facial Lesions
25. Generalized Degeneration of all Body Tissues } of radiations
26. Loss of Anatomical Parts
27. Burns
28. Tumorization
29. Altered Rate of Differentiation of Cervical Tissues

#### C. Central Nervous System Effects

1. Paralysis
2. Tremors
3. Paralysis (Stokes and Young Clasp)
4. Electroencephalographic (EEG) Changes
5. Cranial Nerve Disorders
6. Myoclonic Tremor (Lidless)
7. Conditioned Reflex Disorders
8. Tropic action of the North Sympathetic Nervous System
9. Seizures, Convulsions

#### D. Autonomic Nervous System Effects

1. Neuro-regulation Disorders (e.g., alteration of heart rhythm)
2. Fatigue
3. Myoclonic alterations in the Sarcoplasm of the Vagus Nerve
4. Inhibition of Parasympathetic Nervous System (Bradycardia), and inhibition of the Sympathetic Nervous System

#### E. Peripheral Nervous System Effects

Effects on Locomotor System

F. Psychological Disorders ("Human Schizophrenia Spectrum") - The "Schizophrenia Spectrum" (Psychopathologic and Psychosomatic) Factors:

1. Incoherence - (general "schizophrenia")
2. Depression
3. Anxiety
4. Schizophrenia
5. Lack of Communication
6. Hyperactivity
7. Incoherence
8. Hallucinations
9. Stupor
10. Delirium
11. Increased Intensity
12. Increased Appetite
13. Loss of Interest
14. Early Onset
15. Increased Fatigability
16. Sleep Cycle
17. Control of the Body

G. Emotional Disorders (Schizophrenia)

reflective, depressive, and hyperactive symptoms.

H. Physical Disorders

$$I = \frac{I_1 + I_2}{I_1 + I_2}$$

Example:

1. Schizophrenia (Schizophrenia)
2. Depressive (Schizophrenia) and hyperactive (Schizophrenia) symptoms of schizophrenia
3. Schizophrenia (Schizophrenia) (Schizophrenia) (Schizophrenia) (Schizophrenia)
4. Schizophrenia (Schizophrenia) (Schizophrenia) (Schizophrenia) (Schizophrenia)
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I. Schizophrenia

1. Schizophrenia
2. Schizophrenia

### A. Organ and tissue biochemical changes

Changes in activity of:

1. Electrolytes (Na, Cl)
2. Enzymes (a)
3. Tissue acid (a)
4. Amine (a)
5. Carbohydrates
6. Protein concentration
7. Tissue, Plasma, and Urine Transduction (ac high relative to low levels), Experimentally altered
8. Tissue Electrolyte Effect
9. Alteration in rate of Cell Division
10. Increased concentration of RNA in lymphocytes, and decreased concentration in brain, liver, and spleen.
11. Changes in ferrous acid, succinic acid, and coenzyme B<sub>12</sub> levels
12. Change in concentration of glycogen in liver (hypoglycemia)
13. Alteration in concentration of 17-ketosteroids in urine

### B. Specific disorders:

1. Alteration in acid-base balance (acidosis, alkalosis)
2. Alteration in electrolyte balance (Na, Cl)
3. Alteration in rate of metabolic degradation
4. Altered Carbohydrate Metabolism

### C. Gastro-intestinal Disorders:

1. Anorexia (loss of appetite)
2. Indigestion (a)
3. Constipation
4. Abnormal Secretion of Stomach "Digestive Juice"

### II. Endocrine (Hormonal) Changes

1. Altered Pituitary Function
2. Hypothyroidism
3. Hypoparathyroidism
4. Increased synthesis of radioactive iodine by thyroid gland
5. Altered adrenal cortex activity
6. Increased ACTH secretory activity
7. Increased growth hormone activity
8. Hypogonadism (sexually decreased testosterone production)

### III. Pathological Group

1. Changes in Tubular Epithelium of Testis
2. Brain Changes

## 5. Kinetics and Chemical Theory

1. Chemical Kinetics (e.g., linear dependence, Arrhenius, initial concentration, reaction order, etc., "rate of change" of, "propagation" of, "chain" reaction)
2. Transition
3. Hysteresis
4. Chemical Equilibrium (change in cell rate involving reaction of chemical, molecular transformation)
5. Reaction Order (e.g., kinetic)

## 6. Reaction Rate Theory (e.g., rate dependence of reaction rate, and dependence of collision and other inter-molecular) particles

Also, dependence of reaction, order, and rate of electrochemical reaction

## 7. Thermodynamic Effects

1. Spontaneous System Change
2. Reaction rate dependence on order
3. Change in Physical Properties of Molecular Collisions
4. Transition for Equilibrium, Reaction Order, Rate Dependence
5. Rate of Rate
6. Dependence of Rate
7. Dependence of Reaction, Equilibrium, and Rate of Rate
8. Reaction, Equilibrium, and Rate of Rate
9. Change in Reaction Order of Reaction, Reaction
10. Change in Reaction Order

MEMORANDUM FOR THE RECORD, SUBJECT: [Illegible]

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100. H. G. ... (1971) ... *Journal of ...* ...

101. H. G. ... (1972) ... *Journal of ...* ...

102. H. G. ... (1973) ... *Journal of ...* ...

103. H. G. ... (1974) ... *Journal of ...* ...

104. H. G. ... (1975) ... *Journal of ...* ...

105. H. G. ... (1976) ... *Journal of ...* ...

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109. H. G. ... (1980) ... *Journal of ...* ...

110. H. G. ... (1981) ... *Journal of ...* ...

111. H. G. ... (1982) ... *Journal of ...* ...

112. H. G. ... (1983) ... *Journal of ...* ...

113. H. G. ... (1984) ... *Journal of ...* ...

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116. H. G. ... (1987) ... *Journal of ...* ...

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120. H. G. ... (1991) ... *Journal of ...* ...

121. H. G. ... (1992) ... *Journal of ...* ...

122. H. G. ... (1993) ... *Journal of ...* ...

123. H. G. ... (1994) ... *Journal of ...* ...

124. H. G. ... (1995) ... *Journal of ...* ...















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194. J. B. ... (1944) ...

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APPENDIX A  
 ACRONYMS AND ABBREVIATIONS

Acronym	Agency/Program/Function
ADP	Advanced Data Processing (ADP), Training and Development Bureau of Personnel Training (ADP/TD)
ADP	Advanced Data Processing, Defense Agency
ADP	Agency for Defense - Aerospace Technology Division
ADP	Advanced Technical Information Service (ADP), U. S. Dept. of Commerce
ADP	Advanced Development of Defense, Defense Research Agency, U. S.
ADP	Office of Technical Freedom, U. S. Dept. of Commerce
ADP	Department of the Army
ADP	Advanced Technology, Administration, Defense Agency
ADP	Advanced Office of Staff for Intelligence Agency, Washington, D. C.
ADP	Advanced Information and Space Administration
ADP	Advanced & Technical Services Agency (ADP) of NASA
ADP	Advanced and Aerospace Administration of ADP, U. S. Dept. of Defense
ADP	Advanced Data Processing (ADP) Law 1960-201, U. S. Dept. of Defense, P. O. Box 25, College Park, MD, 20740
ADP	Advanced Technology Agency for Science & Technology, Center for Research





1. The Commission has received information that the following information is available:

2. The Commission has received information that the following information is available:

3. The Commission has received information that the following information is available:

4. The Commission has received information that the following information is available:

REPORT NUMBER 1962-12073

1. H. G. ...

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PHOTOCOPIED FROM THE ORIGINAL DOCUMENT. THIS COPY IS NOT FOR DISTRIBUTION OUTSIDE THE OFFICE OF THE DIRECTOR, NATIONAL CENTER FOR ENVIRONMENTAL HEALTH EFFECTS RESEARCH.

1. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$10,000,000 of 8% Senior Notes due 2025.

2. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$5,000,000 of 6% Senior Notes due 2030.

3. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$3,000,000 of 5% Senior Notes due 2035.

4. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$2,000,000 of 4% Senior Notes due 2040.

5. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$1,000,000 of 3% Senior Notes due 2045.

6. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$500,000 of 2% Senior Notes due 2050.

7. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$250,000 of 1% Senior Notes due 2055.

8. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$125,000 of 0.5% Senior Notes due 2060.

9. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$62,500 of 0.25% Senior Notes due 2065.

10. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$31,250 of 0.125% Senior Notes due 2070.

11. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$15,625 of 0.0625% Senior Notes due 2075.

12. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$7,812.50 of 0.03125% Senior Notes due 2080.

13. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$3,906.25 of 0.015625% Senior Notes due 2085.

14. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$1,953.125 of 0.0078125% Senior Notes due 2090.

15. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$976.5625 of 0.00390625% Senior Notes due 2095.

16. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$488.28125 of 0.001953125% Senior Notes due 2100.

17. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$244.140625 of 0.0009765625% Senior Notes due 2105.

18. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$122.0703125 of 0.00048828125% Senior Notes due 2110.

19. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$61.03515625 of 0.000244140625% Senior Notes due 2115.

20. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$30.517578125 of 0.0001220703125% Senior Notes due 2120.

21. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$15.2587890625 of 0.00006103515625% Senior Notes due 2125.

22. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$7.62939453125 of 0.000030517578125% Senior Notes due 2130.

23. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$3.814697265625 of 0.0000152587890625% Senior Notes due 2135.

24. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$1.9073486328125 of 0.00000762939453125% Senior Notes due 2140.

25. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$953.67431640625 of 0.000003814697265625% Senior Notes due 2145.

26. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$476.837158203125 of 0.0000019073486328125% Senior Notes due 2150.

27. The Board of Directors, upon the recommendation of the Finance Committee, has authorized the issuance of \$238.4185791015625 of 0.00000095367431640625% Senior Notes due 2155.





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1. *Journal of the American Chemical Society*, 70, 1000 (1948).

2. *Journal of the American Chemical Society*, 70, 1000 (1948).

3. *Journal of the American Chemical Society*, 70, 1000 (1948).