define quantities of natural uranium as they appear in the specification of MPC and MPBB values. In order to conform with this recommendation, the MPBB and MPC values for natural uranium listed in NCRP Report No. 22 may be multiplied by the conversion factor $3 \times 10^4$ micrograms per 'special' microcurie. Thus, the MPC value for air for 40-hour per week exposure to soluble compounds of natural uranium with the kidney as the organ of reference is given in NCRP Report No. 22 as $7 \times 10^{-11}$ 'special' microcuries per cubic centimetre. Applying the conversion factor this becomes 210 micrograms per cubic metre of air. Similarly, for insoluble compounds of natural uranium with lung as critical organ, the (MPC) is given as $6 \times 10^{-11}$ 'special' microcuries per cubic centimetre, which converts to 180 micrograms per cubic metre of air.

This conversion from 'special' microcuries to micrograms is done here for illustration only. It connotes no specific or new endorsement of the actual figures or any implication regarding whether the primary mechanism of damage is irradiation or chemical toxicity. These subjects are under study currently and will be taken up in a future NCRP report.

In 1959 the NCRP also defined a 'special curie for natural thorium, "... a curie of recently extracted thorium is considered to correspond to the sum of $3.7 \times 10^{16}$ dis/sec from $^{232}$Th and $3.7 \times 10^{18}$ dis/sec from $^{238}$Th. For reasons similar to those pertaining to the case of natural uranium, the NCRP also recommends that the 'special' curie definition for natural thorium be discontinued. Inasmuch as the isotopic composition of natural thorium is not constant, the NCRP further recommends that the use of a limiting concentration for natural thorium, as an entity, be discontinued, and that the established MPBB and MPC values for each of the individual thorium isotopes be utilized instead.


*The value for $^{238}$U was given as $9 \times 10^4$ dis/sec in reference 2 but changed in reference 3 to $1.7 \times 10^4$ dis/sec.
Information section

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The references cited below have not been checked by the publisher.

1. Historical, legislative, and general

Problems associated with drafting of criteria documents. (English)

Niosh criteria documents. (English)
[Cyanates, Dust, Glass, Government Agencies, Government Publications, Human, Industrial Medicine, Maximum Permissible Exposure, Occupational Diseases Chemically Induced, Particle Size, Sulfur Dioxide, Sulfuric Acids, Toluene, United States]

Farmer's lung: man's oldest occupational illness. (English)
Kilburn, K. H., Asmundsson, T. Mod. Med., 70, 597-9, Aug. 73.
[Bibliography, Farmer's Lung Aetiology History, Immunology Occurrence, Historical Article]

2. Organization of medical and nursing services and education

California cannery workers program: multiphasic testing as an introduction to orderly health care. (English)
Yedidia, A. Arch. environm. Hlth, 27, 259-63, Oct. 73.
[Age Factors, Attitude of Health Personnel, Blood Sugar Analysis, Electrocardiography, Health Education, Mobile Health Units, Multiphasic Screening, Occupational Health Service, Physicians, Spirometry]

Multiphasic screening: a dynamic development in medicine. (English)
Duffy, J. C. Arch. environm. Hlth, 27, 267-8, Oct. 73.
[Abdomen Radiography, Automatic Data Processing, Bilirubin Analysis, Lactate Dehydrogenase Analysis, Mass Chest X-ray, Multiphasic Screening, Occupational Health Service, Quality Control, United States]

3. Physiological, psychological, and organizational aspects of work and rehabilitation

Rest allowance for stair climbing: a case study. (English)
[Exertion, Heart Rate, Oxygen Consumption, Pulse, Rest, Time Factors]

Mental health and work environment: an examination of the evidence. (English)
[Absenteeism, Automation, Environment, Mental Health, Models Psychological, Occupations, Personal Satisfaction, Physical Fitness, Social Class, Social Values, Socio-economic Factors, Unemployment, Review]

Comparison of spiroergometric studies and performance at the working place of heavy workers (German)

Measurements in the construction of seats for working places. (German)
[Biomechanics, Equipment and Supplies, Human Engineering, Occupations, Posture]

Effect of shift work on the beginning and end of working disability studied on the model of the 4-brigade 3-shift. (German)
Schieche, M. Z. ges. Hyg., 19, 194-6, Mar. 73.
[Disability Evaluation, Eligibility Determination, Occupations, Time Factors]

Attempt to determine morbidity causing absenteeism in an active population. (French)
[Absenteeism, Accidents Industrial, Handicapped, Morbidity, Mortality, Occupational Diseases Occurrence, Sex Factors, Time Factors, English Abstract]

Comparative evaluation of work strain using the B.T.E., system and two physiological parameters: oxygen consumption and heart rate. (English)
[Human, Exertion, Heart Rate, Mathematics, Models Theoretical, Oxygen Consumption, Physical Fitness, Posture, Task Performance and Analysis, Time Factors]

Random living schedule: psychological effects in man. (English)
[Anxiety, Aptitude Tests, Circadian Rhythm, Cognition, Depression, Hostility, Intelligence Tests, Mental Disorders]
Aetiology, Personality Inventory, Rorschach Test, Sleep, Sleep Deprivation

Return to work. (English)

Brit. med. J., 3, 186-7, 28 Jul. 73.

[Disability Evaluation, Government Agencies, Great Britain, Handicapped, Rehabilitation Vocation]

Social class and chronic illness. (English)


[Absenteeism, Age Factors, Attitude to Health, Chronic Disease, Disability Evaluation, Health Surveys, Income, Racial Stocks, Social Class, United States]

Return to work after a heart attack. (English)


[Affective Disturbances, Angina Pectoris Complications, Coronary Disease, Depression, Disability Evaluation, Follow-up Studies, Personality, Psychophysiological Disorders, Social Class, Unemployment, Work]

Reaction time to noise bursts of different durations. (English)

Emmerich, D. S., Gruenfeld, L. S. J. exp. Psychol., 100, 422-3, Oct. 73.

[Acoustic Stimulation, Auditory Perception, Female, Human, Judgment, Noise, Reaction Time, Time Factors]

The effects of shift work on worker health. (English)


[Absenteeism, Age Factors, Circadian Rhythm, Gastrointestinal Disease Aetiology, Health, Mortality, Peptic Ulcer Aetiology, Psychology Industrial, Sleep Disorders, Time Factors, Work]

Body weight and the energy cost of activity. (English)

Godin, G., Shephard, R. J. Arch. environn. Hlth, 27, 289-93, Nov. 73.

[Body Weight, Eskimos, Exertion, Oxygen Consumption, Statistics, Urban Population]

4. Traumatic conditions, accidents, and accident prevention

Lumbodorsal backache of occupational origin. (French)

Jeanmart, L. J. belge Radiol., 56, 1-9, Jan.-Feb. 73.


Severe osteoarthrithis of the elbow in foundry workers. (English)

Mintz, G., Fraga, A. Arch. environn. Hlth, 27, 78-80, Aug. 73.

[Age Factors, Elbow Radiography, Metallurgy, Movement, Time Factors]

Industrial injuries. (English)


[Accidents Industrial, Motivation, Social Security, Time Factors, Wounds and Injuries]

Compressed air injury of the colon: a report of two cases. (English)


[Accidents Industrial, Colon Injuries, Pneumoperitoneum Aetiology, Pressure Adverse Effects, Rupture Aetiology]

Industrial nail-gun injuries: a review and case report. (English)


[Antibiotics Therapeutic Use, Blood Transfusion, Drainage, Dyspnoea, Fever, Haemopneumothorax, Radiography Therapy, Lung Injuries, Pleural Effusion, Thoracic Injuries Complications]

5. Effects of inorganic substances and minerals

Commentary: Beryllium, the criteria document. (English)


Criteria for a recommended standard. Occupational exposure to beryllium and its compounds. (English)


[Beryllium, Government Agencies, Masks, Maximum Permissible Exposure, Physical Examination, Protective Clothing, Records, Respirators, United States, World Health Organization]

Mercury as an environmental hazard. (English)


[Animal Experiments, Chelating Agents Therapeutic Use, Diet, Dose-response Relationship, Fish Products Analysis, Maternal-fetal Exchange, Mercury Analysis Metabolic Toxicity, Mercury Poisoning Drug Therapy, Methyl Mercury Compounds, Placenta Metabolism, Pregnancy, Review]

Mercury exposure evaluations and their correlation with urinary mercury excretions. 5. Occurrence of mercuroliaunis among mercury chloralkali workers. (English)


Coalworkers' pneumoconiosis. (English)


[Age Factors, Coal Mining, Pneumoconiosis Mortality, Pulmonary Empysema]

Caplan's syndrome. (German)


[Arthritis Rheumatoid Complications Occurrence, Caplan's Syndrome Aetiology, Mining, Pneumoconiosis Complications, Radiation]

Campaign against dust in Belgian coal mines: the situation at the beginning of 1972. (Poliglot)


[Belgium, Coal Mining, English Abstract]

Incidence of respiratory disorder and chronic bronchitis in silicotic miners of Monte Amiata. (Italian)


[Bronchitis Aetiology, Mining, Pulmonary Empysema Aetiology, Respiratory Insufficiency Aetiology, Silicosis Complications, Smoking, English Abstract]

State of health of workers welding in a carbon dioxide environment. (Russian)


[Carbon Dioxide, Cardiovascular Diseases, Central Nervous System Differential Diagnosis, Respiratory Tract Diseases Chemically Induced, Welding, English Abstract]

Lung function in relation to radiographic changes in asbestosis workers. (English)


[Human, Asbestos Adverse Effects, Carbon Dioxide, Lung Physiopathology, Lung Radiography, Lung Diseases Physiopathology, Pulmonary Diffusing Capacity, Respiration]
tion, Spirometry, Time Factors, Vital Capacity]

Occupational exposure to mercury vapors and biological action. (English)
Laureyrs, R. R., Buchet, J. P. Arch. environn. Hlth, 27, 65-8, Aug. 73.

Worker-sponsored survey for asbestosis: detection of occupational lung disease without a control group. (English)
[Analysis of Variance, Asbestos Diagnosis, Mass Chest X-ray, Questionnaires, Regression Analysis, Respiratory Function Tests, Smoking, Time Factors]

The problem of lead exposure caused by the exhaust gases of motor vehicles. A contribution to the applicability of the determination of delta-aminolevulinic acid in urine as a criterion for the lead exposure caused by environmental factors. (German)
[Automobile Exhaust, Human, Lead Poisoning Aetiology, Lead Poisoning Blood Urine, English Abstract]

Haemangio-endothelial sarcoma of the liver. (English)
[Angiosarcoma Diagnosis, Biopsy Needle, Glass Adverse Effects, Hepatitis Pathology, Kupffer Cells, Liver Pathology, Liver Cirrhosis Pathology, Occupational Diseases]

The significance of asbestosis in tissue. (English)
[Animal Experiments, Rats, Asbestos, Asbestosis Aetiology, Carcinoma Epidermoid, Dose-response Relationship, Dust, Lung Neoplasms, Mesothelioma, Oils, Particle Size, Pathology, Smoking, Thorax Neoplasms, Tuberculosis Pathology, Ventilation, Time Factors]

Lead induced injury on in vitro cultured rat fibroblasts. A histochemical study. (English)
Brun, A., Brunk, U. Histochemie, 35, 227-34, 30 May 73.
[Animal Experiments, Rats, Cells Cultured, Cytosplasm Granules Analysis, Embryo, Fibroblasts Enzymology, Histcocytochemistry, Lysosomes Drug Effects, Membranes Drug Effects, Silver, Sulphides]

Ventilatory capacity of miners. (English)
[Human, Pneumoniosis, Respiration, Spirometry, United States]

Asbestosis combined with bronchogenic carcinoma and pulmonary tuberculosis. (German)
[Human, Asbestos Complications, Bronchial Neoplasms Aetiology, Neoplasm Metastasis, Tuberculosis Pulmonary Aetiology, English Abstract]

Systematic study of pulmonary asbestosis in the Le Havre region. (French)
[Asbestos Occurrence, Autopsy, France, Methods, Microscopy Electron, Sputum Analysis, English Abstract]

Amphibolic asbestos minerals in the soil and their significance for the endemic incidence of pleural plaques. (German)
[Asbestos Adverse Effects, Analysis, Asbestos Occurrence, Bulgaria, Disease Reservoirs, Pleural Diseases Occurrence, Pleural Diseases Chemically Induced, Soil Analysis]

Possible relations between asbestos and pleuro-pulmonary tumors in Liguria. (Italian)
[Human, Italy, Lung Neoplasms Aetiology, Pleural Neoplasms Aetiology, English Abstract]

Cadmium exposure of zinc refinery workers. I. Summary and evaluation—preliminary examination. (Japanese)
[Cadmium Poisoning, Environmental Exposure, Mass Screening, Zinc, English Abstract]

Studies on the health hazards of lead and calcium on the painters in ceramics. (Japanese)
[Cadmium Poisoning, Cadmium Metabolism, Ceramics, Environment Exposure, Lead Metabolism, Paint, English Abstract]

Basic directions in technical progress and current problems of work hygiene in the production of copper. (Russian)
Litkens, V. A. Gig. Sanit., 38, 99-100, Apr. 73.
[Copper, Metallurgy]

Asbestosis and lung cancer in Osaka Sennan district. (English)
Sera, Y., Kang, K. Y., Yokoyama, K. Gann, 64, 313-6, Jun. 73.
[Adenocarcinoma, Asbestos Complications, Carcinoma Epidermoid Complications, Occurrence, Smoking Complications]

The locus of pathogenicity of asbestosis dust: a theory. (English)

The prevalence of coal workers’ pneumoconiosis in U.S. coal miners. (English)
[Cofal Mining, Dust Analysis, Employment, Environmental Exposure, Geography, Pneumoconiosis Occurrence, Radiography, Pulmonary Fibrosis Occurrence, Spirometry, Time Factors, United States]

Life expectancy of Pennsylvania coal miners compensated for disability as affected by pneumoconiosis and ventilatory impairment. (English)
[Age Factors, Airway Obstruction Complications, Coal Mining, Disability Evaluation, Eligibility Determination, Life Expectancy, Mortality, Spirometry, Workmen’s Compensation]

Early effects of quartz and titanium dioxide dust on pulmonary function and tissue. An experimental study on rabbits. (English)
[Animal Experiments, Rabbits, Autopsy, Dust, Lung Pathology, Physiology, Radiography, Organ Weight, Silicosis Pathology, Spirometry, Titanium Pharmacology, Xenon]

Health damage due to asbestos. (German)
Kann, J., Mohrmann, W. Z. Allgemeinmed., 49, 907-8, 10 Jul. 73.
[Asbestos Adverse Effects, Bronchial Neoplasms Aetiology, Pleural Diseases Aetiology]

Lung ventilation in blowers of flint glass and glassware. (Polish)
Rozniecki, J., Gonderowicz, K., Kunski, H. Grazilica, 41, 569-72, Jun. 73.
[Human, Glass, Lung Physiology, Respiration, Spirometry, Vital Capacity, English Abstract]

Motor nerve conduction velocity and electromyogram in chronic lead poisoning. (English)
[Human, Electromyography, Lead Poisoning Complica-
Occupational, accidental, explorational carbon dioxide inhalation poisonings, and prevention. (English)
[Acidosis, Asphyxia Aetiology, Autopsy, Carbon Dioxide Poisoning, Dexamethasone, Sealed Cabin Ecology, Space Flight, Submarine Medicine, Vitamins Administration and Dosage]

Risk of asbestosis in workers employed in replacing automobile brake linings. (French)
Boillat, M. A., Lob, M. Schweiz. med. Wschr., 103, 1354-9, 29 Sep. 73.
[Asbestosis Occurrence, Radiography, Automobiles, Maximum Permissible Exposure, Spirometry, Switzerland]

Graphite pneumoconiosis complicated by tuberculosis. (English)
[Carbon, Pneumoconiosis Complications Aetiology, Tuberculosis]

Progress report. U.S. Beryllium case registry, 1972. (English)
[Acute Disease, Beryllium Poisoning, Chronic Disease, Registries, United States]

On the diagnosis of co-worker’s pneumoconiosis. Anglo-American disharmony. (English)
[Coal Mining, Mass Chest X-ray, Pneumoconiosis Radiography]

Experimental infective manganous pneumoconiosis in guinea pigs. (English)
[Animal Experiments, Guinea Pigs, Bronchopneumonia, Candida Albicans, Lung Diseases Fungal, Macrophages, Manganese Toxicity, Moniliasis, Pneumoconiosis Aetiology, Pulmonary Fibrosis Aetiology, Time Factors]

Hygienic guide series: titanium. (English)
[Explosions, Fires, First Aid, Maximum Permissible Exposure, Poisoning, Protective Devices, Pulmonary Fibrosis, Respirators, Toxicity]

Reactions of autonomic nervous system in chronic plumism. (Polish)
[Blood Pressure, Epinephrine Diagnosis Use, Insulin Diagnosis Use, Parasympathetic Nervous, Pilocerection, Posture, Pulse, Sympathetic Nervous System, English Abstract]

Respiratory functional changes in subjects exposed to chromiuim. I. Spirographic changes. (Italian)
[Bronchial Spasm, Bronchitis, Chromium Adverse Effects, Respiratory Tract Disease, Spirometry, English Abstract]

Respiratory functional changes in subjects exposed to chromium, II. Steady-state co transfer changes. (Italian)
[Chromium, Respiratory Function Tests, English Abstract]

Studies in lead poisoning. II. Correlation between the ratio of activated to inactivated delta-aminolevulinic acid dehydratase of whole blood and the blood lead level. (English)

Studies in lead poisoning. I. Microanalysis of erythrocyte protoporphyrin levels by spectrophotometry in the detection of chronic lead intoxication in the subclinical range. (English)
[Human, Animal Experiments, Rats, Chronic Disease, Comparative Study, Erythrocytes Analysis, Lead Blood, Microchemistry, Porphyryns Blood, Spectrometry Fluorescent]

Orhostatic and clinostatic reaction in patients with different degrees of pulmonary coniosis (author’s transl.). (Czechoslovak)
[Human, Pneumoconiosis Physiopathology, Posture, Pulse, Respiratory Function Tests, English Abstract]

Cardiovascular system in lead poisoning. (English)
[Blood Pressure, Cardiac Output, Lead Poisoning Complications]

Parameters of lead absorption. (English)
[Absorption, Animal Experiments, Lead Metabolism, Lead Blood, Lead Poisoning Metabolism]

On the hepatotoxic action of lead. (English)
[Bilirubin Metabolism, Blood Protein Electrophoresis, Liver Diseases Chemically Induced]

Histological changes of the kidneys in lead poisoning. (English)
[Biopsy, Kidney Pathology]

Assessment of the value and interrelations of biotocixological analysis of urine in workers with chronic lead exposure. (English)
[Lead Urine, Leulvinic Acid Urine, Urine, Porphyryns Urine]

A method for estimating the comparative merits of the biological tests of lead exposure. (English)
[Economics Medical, Lead Blood, Urine]

Relationship between lead in the bone marrow and lead in the blood. (English)
[Lead Poisoning Diagnosis, Leulvinic Acid Urine]

Blood lead determinations in control of exposed workers. (English)
[Lead Blood, Lead Poisoning Diagnosis]

Relationship between the concentration of lead in blood and delta-aminolaevulic acid (A.L.A.) in urine during lead-exposed work. (English)
[Lead Poisoning Diagnosis, Leulvinic Acid Urine]

Effect of lead exposure on the level of delta-aminolaevulinic-dehydratase activity. (English)
[Enzyme Tests, Haemoglobin Biosynthesis, Hydrolases Blood, Lead Poisoning Diagnosis]

Control of lead in the air—significance for exposure to and prevention of lead poisoning. (English)
Type of synergism
Toxicological findings and health threats
Toxicity
Longitudinal studies of lead levels in a U.S. population.
Letter: Electron microscope autoradiography of kidney after administration of 210PB in mice.

6. Effects of organic substances
Toxicity and health threats of phthalate esters: review of the literature.
A new chemical carcinogen?
Effects of benzene on the leucocytic function of mice. An approach to the maximum allowable concentration of benzene.
Effects of dimethylformamide-induced abdominal pain and liver injury.
Toxicological synergism of some solvents used in industry.
Various findings concerning the status of healthy working women exposed to carbon disulfide.

[Lead Analysis, Lead Poisoning, Yugoslavia]
[Type of asbestos and respiratory cancer in the asbestos industry, (English)]
[Enterline, P. E., Henderson, V. Arch. environm. Hlth, 27, 312-7, Nov. 73.]
[Asbestos, Dust, Gastrointestinal Neoplasm Mortality, Heart Diseases Mortality, Respiratory Tract Disease Mortality, Respiratory Tract Neoplasm Mortality, Retirement, Time Factors, United States]

Rheumatoid pulmonary, Documentation of onset and pathogenesis. (English)

[Arthritis Rheumatoid Complications Occurrence, Caplan's Syndrome Aetiology, Radiography, Czechoslovakia, Human, Male, Middle Age, Occupational Diseases Occurrences, Review, Rheumatoid Factor Analysis, Silica, Silicosis Complications, Silicotuberculosis Occurrence, Wales]

Longitudinal studies of lead levels in a U.S. population.
[Lancet, 2, 365-6, 18 Aug. 73.]
[Adenoma Chemically Induced, Carcinogens, Carcinoma Epidermoid, Carcinoma Oat Cell, Ethers Adverse Effects, Lung Neoplasms Chemically Induced, Methyl Ether Adverse Effects, Rats, Skin Neoplasms, Time Factors]

Pathomorphological changes in the central nervous system under the effect of dietylenglycol (Deg). (Russian)

[Animal Experiments, Rats, Mice, Brain Diseases, Glycols Adverse Effects, Welding, English Abstract]

Effects of benzene on the leucocytic function of mice. An approach to the maximum allowable concentration of benzene.
[Animal Experiments, Mice, Benzene Poisoning, Bone Marrow, Cell Movement, Leukocyte Count, Liver, Maximum Permissible Exposure, Phagocytosis, Spleen]

Dimethylformamide-induced abdominal pain and liver injury.
[Potter, H. P. Arch. environm. Hlth, 27, 340-1, Nov. 73.]
[Abdomen Acute Aetiology, Dimethylformamide Poisoning, Hepatitis Toxic, Hypertension, Leukocyte Count, Liver Function Tests, Male, Porphobilinogen Urine]

Toxicological synergism of some solvents used in industry.
[Acetone, Animal Experiments, Benzene, Cells Cultured, Chick Embryo, Glycols, Haematopoietic Stem Cell, Mitosis, Toluene, Xylene]

Various findings concerning the status of healthy working women exposed to carbon disulfide. (German)

[Animal Experiments, Mice, Autoradiography, Biological Transport, Bismuth, Cell Nucleus Metabolism, Cellular Inclusions, Cytoplasm Metabolism, Hydroxides, Kidney Tubules, Electron Microscopy, Mitochondria, Polonium, Radioisotopes, Silver]

Epidemiologic surveillance of mesothelioma in Canada.
[McDonald, A. D., McDonald, J. C. Canad. med. Ass. J., 109, 559-62, 1 Sep. 73.]

[Asbestos Adverse Effects, Autopsy, Biopsy, Epidemiologic Methods, Mesothelioma Occurrence, Peritoneal Neoplasms, Pleural Neoplasms, Smoking Complications]

Urinary proteins studied by use of isoelectric focusing. I. Tubular malfunctions in association with exposure to cadmium. (English)
[Albumins Urine, Cadmium Adverse Effects, Comparative Study, Densitometry, Electrophoresis, Globulins Urine, Hydrogen-Ion Concentration, Immuno-electrophoresis, Isoelectric Focusing, Lupus Erythematosus Systemic, Proteinuria, Rats, Skin, Studies, Tubular Neoplasms, Ureaemia]

Lead encephalopathy—report of two cases. (English)
Chan, H. C., Tan, K. E., Singapore med. J., 14, 133-6, Jun. 73.
[Brain Diseases, Lead Poisoning Diagnosis]


Toxic effects on heart of trichloroethylene (author's transl.). (German) Konietzko, H., Elster, I. Arch. Toxikol., 31, 93-8, 30 Aug. 73. [Body Height, Electrocardiography, Extrasyntoxically Chemically Induced, Heart Arrest, Telmetry, Trichloroethylene Toxicity, Ventricular Fibrillation Chemically Induced, English Abstract]

Cytogenetic studies following chronic exposure to benzene (author's transl.). (German) Khan, H., Khan, M. H. Arch. Toxikol., 31, 39-49, 30 Aug. 73. [Blood Cells, Bone Marrow Cells, Bone Marrow Examination, Chromosome Aberrations, Chromosome Mapping, Cytodiagnosis, Cytogenetics, Leukaemia, Mitosis, Time Factors, English Abstract]


Formaldehyde: how much of a hazard? (English) Ahmad, I., Whiston, T. C. Ind. Med. Surg., 42, 26-7, Sep. 73. [Formaldehyde Poisoning, Maximum Permissible Exposure, Textile Industry, Unconsciousness Chemically Induced]


7. Effects of animal and vegetable substances


Diseases and functional disorders of the respiratory tract in workmen of the wood processing industry. (German) Ruppe, K. Ca., 23, 261-4, Jul.-Aug. 73. [Human Conjunctivitis Occurrence, Dust, Mass Screening, Respiratory Tract Disease Occurrence, Wood]

Extended studies on the diagnosis of farmer's lung. (German) Uminski, J., Dutkiewicz, J., Dutkiewicz, E. Ca., 23, 264-6, Jul.-Aug. 73. [Actinomycetes Isolation and Purification, Agricultural Workers' Disease Diagnosis, Animal Experiments, Evaluation Studies, Farmer's Lung Diagnosis, Fluorescent Antibody Technique, In Vitro, Poland, Rural Population, Serodiagnosis]

The skin sensitivity to flour of baker's apprentices. A final report of a long term investigation. (English) Hrzechmixer, H. Acta Allergol., 28, 42-9, May 73. [Cough Aetiology, Dust, Eczema Aetiology, Flavour Adverse Effects, Follow-up Studies, Hay Fever Aetiology, Pollen, Skin Tests]


Complications, Vital Capacity]

Occupational asthma and rhinitis due to western red cedar (Thuja plicata). (English)

Maximal expiratory flow and airway resistance during induced bronchospasm in patients with asthma due to western red cedar (Thuja plicata). (English)

Respiratory Disease in cork workers (‘suberosis’). (English)
[Human, Animal Experiments, Guinea Pigs, Rabbits, Antigens Analysis, Asthma Diagnosis, Bronchiectasis]

Complications, Bronchitis Diagnosis, Gel Diffusion Tests, Penicillium, Pneumoconiosis Aetiology, Skin Tests, Spirometry, Vital Capacity]

On allergic pneumopathies in rural environments. (Italian)
[Agricultural Workers, Allergens, Antibodies Analysis, Asthma Occurrence, Farmer’s Lung Occurrence, Respiratory Hypersensitivity, Rural Population, English Abstract]

Two cases of skin anthrax due to a single source of infection. (German)
Fliegner, L. Hautartz, 24, 356-8, Aug. 73.
[Abattoirs, Anthrax Aetiology, Cattle, Doxycycline, Oxytetracycline, Penicillin, Skin Diseases Infections Aetiology, Zoonoses]

Radio-frequency energy: a hazard to workers? (English)

8. Effects of physical agents

Hydrodynamics of the eyes in vibration disease. (Russian)
[Coal Mining, Eye Physiopathology, Eye Manifestations, Glass, Tonometry, Vibration Adverse Effects, English Abstract]

Pathophysiology of shock secondary to underwater decompression sickness. (English)
[Human Experiments, Dogs, Monkeys, Blood Coagulation, Brain Physiopathology, Cholesterol Blood, Decompression Sickness Complications, Electroencephalography, Lipids Blood, Plasma, Pulmonary Embolism, Shock Physiopathology, Aetiology]

Pure-tone acuity, speech-hearing ability and deafness in acoustic trauma. A review of the literature. (English)
[Acoustic Trauma, Audiology Standards, Auditory Threshold, Cochlea, Deafness Diagnosis, Discrimination, Labyrinth Diseases Aetiology, Psychometrics, Review]

Microcirculatory and absorption changes in vibration diseases. (Russian)
Abramovich-Poliakov, D. K., Pilipenko, N. I. Vrach. Delo, 1, 129-33, Jan. 73.
[Blood Vessels, Microcirculation, Phosphorus Isotopes Metabolism, Vascular Diseases Aetiology, Vibration, English Abstract]

Change of gamma-ray exposure-rate standards by the national bureau of standards. (English)
[Cesium Isotopes, Cobalt Isotopes, Maximum Permissible Exposure, Radiometry Standards, United States]

The effect of high-frequency vibration on the activity of some enzymes (cytochrome oxidase, talse, peroxidase) participating in biological oxidation in experiment. (English)

Studies on a criteria for impact noise—TTS growth on various conditions of impact noise at different durations and frequency of occurrence. (Japanese)
[Audiometry, Auditory Threshold, Noise, Time Factors, English Abstract]

Some comments on ‘Impairment to hearing from exposure to noise’ by K. D. Kryter. (English)
[Acoustic Trauma Diagnosis, Communication, Deafness Diagnosis, Disability Evaluation, Human, Noise Prevention and Control]

Studies on a criterion for impact noise—the relation between TTS and numbers of impact noise exposure. (Japanese)
[Acoustic Trauma, Acute Disease, Environmental Exposure, Noise, English Abstract]

Possibility of danger to forest workers caused by motor chain saws. (German)
Oeser, R. Z. ges. Hg., 19, 197-8, Mar. 73.
[Human, Joint Diseases Aetiology, Wood]

Various hemocoagulation problems in workers occupationally exposed to long-term, small doses of ionizing radiation. (Czech)
[Blood Coagulation Radiation Effects, Mining, Tomobelastography, Time Factors, Uranium Adverse Effects, English Abstracts]

Lasers in their significance for work hygiene. (German)
Kupfer, E. Z. ges. Hg., 19, 169-77, Mar. 73.
[Human, Eye Diseases Aetiology, Lasers Adverse Effects]

Determination of revised Air Force permissible exposure levels for laser radiation. (English)
[Human, Animal Experiments, Monkeys, Eye Burns Aetiology, Lasers, Lasers Adverse Effects, Maximum Permissible Exposure, Neodymium, Retinal Diseases Aetiology]

Caisson disease of bone. (English)
[Bone Diseases Radiography, Decompression Sickness, Radioisotope Scanning, Strontium Radioisotopes]

Post-irradiation skin-cancer. (English)
[Carcinoma Epidermoid Aetiology, Neoplasms Radiation-in, Radiotherapy Adverse Effects, Skin Neoplasms Aetiology, Tinea Radiotherapy]
Must your new plant be too noisy? (English)
[Acoustics, Architecture, Engineering, Equipment and Supplies Standards, Maximum Permissible Exposure, Methods, Noise Prevention and Control, Quality Control]
Temporary and permanent threshold shifts produced by nine-day exposures to noise. (English)
[Animal Experiments, Chinchillas, Auditory, Auditory Threshold, Avoidance Learning, Noise, Time Factors]
Risk of internal radioactive contamination. Current and prospective problems. (Italian)
Maugeri, S. Lav. umano., 25, 33-50, Mar. 73.
[Agricultural Workers, Food Contamination, Mining, Radiation Genetics, Radiation Injuries, Radioactive Waste, Radioisotopes, Radiotherapy, Televised]
Effect of decompression of the lower half of the body on the state of the human cardiovascular system (based on cine-radiographic data). (Russian)
[Angiocardiography, Cardiac Volume, Cineradiography, Decompression Sickness, Heart Physiopathology, Heart Rate]
Epidemiology of professional noise-induced hearing loss. (English)
Ewersen, H. W. Audiology, 12, 453-8, Sep.-Dec. 73.
[Acoustic Trauma Aetiology, Age Factors, Auditory Threshold, Hearing Tests, Protective Devices, Sex Factors, Time Factors]
Electric spark injury of the intestine. (Polish)
[Accidents Industrial, Burns Electric, Electric Injuries Complications, Electrodes, Jejunum Injuries, English Abstract]

9. Methods of investigation of body function

Pulmonary function testing in industry. (English)
[Human, Methods, Mining, Pneumoconiosis Prevention and Control, English Abstract]
Determination of alpha-quartz in the respirable portion of airborne particulates by X-ray diffraction. (English)
[Aerosols, Calcium Fluoride Analysis, Coal Mining, Dust Analysis, Filtration, Methods, Particle Size, Silica Analysis, X-ray Diffraction]
Harmonization of respirator standards in Europe. (English)
[Europe, Filtration, International Cooperation, Masks Standards, Respirators Standards]
Effect of facial hair on respiratory performance. (English)
[Aerosols, Esters, Face, Hair, Masks Standards, Phthalic Acid, Protective Devices Standards, Respirators Standards, Sodium Chloride]
Personal dosimetry versus environmental monitoring. (English)
[Air Pollution Analysis, Chemical Industry, Coal Mining, Dust Analysis, Lead Analysis, Legislation Medical, Maximum Permissible Exposure, Mercury Analysis, Methods, Uranium Analysis]
Change in the haematological indices in workers in an enamelling shop of a cable factory. (Russian)
[Air Pollution, Blood Cell Count, Heat Adverse Effects, Haematological Diseases Chemically Induced, Maximum Permissible Exposure, Paint]
Improved techniques of identification and determination of airborne asbestos. (English)
[Asbestos Analysis, Filtration, Methods, Microscopy Phase Contrast, Particle Size]
A carbon monoxide-oxygen sampler for evaluation of fire fighter exposures. (English)
[Carbon Monoxide Analysis, Catalysis, Gas Chromatography, Electricity, Hydrogen, Metals, Methane, Miniaturation, Oxidation-Reduction, Oxygen Analysis, Time Factors]

10. Environmental measurement, control, and protection of the subject

Study of a test for estimating the noxiousness of mining dust exposure. (Polyglost)
[Human, Methods, Mining, Pneumoconiosis Prevention and Control, English Abstract]
Acceptable levels for breathing resistance of respiratory apparatus. (English)
[Coal Mining, Exertion, Mathematics, Pressure, Protective Devices Standards, Respirators Standards, Respiratory Function Tests, Work of Breathing]
A monumental study—reconstruction of a 1920 granite shed. (English)
[Dust Analysis, Filtration, Masks, Particle Size, Regression Analysis, Silica Analysis, Spectrophotometry Infra, Ventilation, Vermont]
Bureau of Mines procedure for analysis of respirable dust from coal mines. (English)
[Coal Mining, Dust Analysis Filtration, Government Agencies, Mathematics, Methods, Mining, Silica Analysis, Spectrophotometry Infra, United States]
Quantitative differential thermal analysis of small dust samples containing quartz. (English)
[Dust Analysis, Heat, Methods, Mining, Particle Size, Silica Analysis, Talc Analysis, X-ray Diffraction]
The radiographic categorization of coal workers' pneumoconiosis by lay readers. (English)
6, 60-7, Mar. 73.

[Coal Mining, Physicians Utilization, Pneumoconiosis Radiography, United States]

Today's approach to protecting employees from the heavy metals. (English)


[Masks, Maximum Permissible Exposure, Metals, Metals Analysis Poisoning, Protective Devices, Ventilation]

Assessing change in the pneumocutaneous using serial radiographs: sources and quantification of bias. (English)


[Coal Mining, Methods, Pneumoconiosis Radiography, Statistics]

Oriental methods for individual evaluation of disorders of distribution and gas exchange in occupational chronic bronchopneumopathies. (Italian)

Serra, R., Capodaglio, E., Catenacci, G. Lav. umano, 25, 1-22, Jan. 73.

[Bronchial Diseases Physiopathology, Disability Evaluation, Methods, Respiratory Function Tests, English Abstract]

11. Miscellaneous

Use of dermograms in the diagnosis of occupational dermatoses. (French)


[ Dermatitis Contact Diagnosis, Human, Lymphocyte Transformation, Skin Diseases Diagnosis, Skin Tests, English Abstract]

Environmental exposure and bladder cancer in young males. (English)


[ Bladder Neoplasms Chemically Induced, Carcinogens, Carcinoma Transitional Chemically Induced, Paint Poisoning, Solvents Poisoning]

Clinical picture, work expertise and prophylaxis of chronic dust-induced bronchitis. (Russian)

Kleiner, A. I., Dnynik, V. I., Khizhniakova, L. N. Vrach. delo, 2, 134-8, Feb. 73.

[Bronchitis Aetiology, Disability Evaluation, Dust, Pneumoconiosis Prevention and Control, English Abstract]

Health effects of exposure to high concentrations of automotive emissions. Studies in bridge and tunnel workers in New York City. (English)


[Human, Intelligence Tests, Methods, M.M.P.I., Occupational Dermatitis, Skin Diseases Rehabilitation, Socio-economic Factors]

Contact dermatitis on the hands. (English)


[Diagnosis Differential, Occupational Dermatitis Diagnosis, Skin Tests]

Pulmonary edema of environmental origin. (English)

Cordasco, E. M., Stone, F. D. Chest, 64, 182-5, Aug. 73.

[Antimony, Boron Compounds, Carbon Monoxide Poisoning Complications, Chlorides, Chlorine, Hydrogen Sulfide, Phosgene, Positive-pressure Respiration, Pulmonary Oedema Radiography, Time Factors, Tracheotomy]

A current hypothesis of the lymphatic transport of inspired dust to the parietal pleura. (English)

Taskinen, E., Ahlamn, K., Wukeri, M. Chest, 64, 193-6, Aug. 73.

[Autopsy, Dust, Dyspnoea Diagnosis, Lymphangitis, Particle Size, Pleura, Pneumoconiosis, Pulmonary Embolism, Pulmonary Emblysema, Pulmonary Fibrosis]

Guinea pig maximization test for demonstration of the sensitizing effect of important industrial products. (German)


[Animal Experiments, Guinea Pigs, Chromates Toxicity, Dermatitis Contact Aetiology, Disulfides Toxicity, Inbreeding, Skin Tests, Sulphydryl Compounds Toxicity, English Abstract]

Job status and expectations of exemptions from work due to illness. (English)


[Absenteeism, Acute Disease, Attitude, Convalescence, Social Class, United States]

Possibilities for establishing maximum permissible doses (MPD) and maximum permissible concentrations (MPC) of carcinogens. (German)


[Benzyopyrenes, Carcinogens, Maximum Permissible Exposure, English Abstract]

Thirty-two million women at work—how different are they? (English)


[Attitude, Body Constitution, Employment, Legislation Medical, Minority Groups, Occupations, Pregnancy, Social Change, Social Values, United States, Women]

The epidemiology of different histiogtic types of bronchogenic carcinoma. (English)

Harris, C. C. Cancer Chemother. Rep., Suppl. 4, 59-61, Mar. 73.

[Arsenic, Carcinoma Bronchogenic Aetiology Pathology, Chromium, Lung Neoplasms Aetiology, Mustard Compounds, Nickel, Smoking Complications, Uranium]

Criteria for hazardous exposure limits. (English)

Hatch, T. F. Arch. environm. Hlth, 27, 231-5, Oct. 73.


Epidemiologic, social and economical aspects of occupational dermatoses in Belgium. (English)

Oleffe, J. Arch. belges Derm. Syph., 29, 93-104, Jan.-Mar. 73.

[Human, Legislation Medical, Rehabilitation, Socio-economic Factors, Workmen's Compensation]

Comparative histopathology of allergic and irritant patch test reactions in man. Current concepts and new prospects. (English)


[Autoradiography, Basophils, Blood Vessels Physiopathology, Diagnosis Differential, Eosinophils, Lymphatic System Physiopathology, Occupational Dermatitis Pathology, Skin Tests]

The impact of changing pesticide usage on the medical community. (English)
[Environmental Health, Pesticides Poisoning]  
Replacement of allergens by non-allergens in industry. (English)  
Mijnsen, G. A. Arch. belges Derm. Syph., 29, 105-9,  
Jan.-Mar. 73.  
[Allergens Isolation and Purification, Chromatography,  
Electrophoresis, Occupational Dermatitis Prevention and  
Control, Skin Tests]  

Dermatological problems in industrial medicine examinations.  
(Schiller, H. Berufsdermatosen, 21, 183, Aug. 73.  
[Disability Evaluation, Drug Hypersensitivity Diagnosis,  
False Negative Reactions, False Positive Reactions, Skin  
Tests]  
Control and prevention of occupational cancers. Information  
from a report of the international labour organisation  
(I.L.O.) on a convention of experts. (German)  
[Congresses, International Agencies, Neoplasms Preven- 
tion and Control]  

Health hazards in the working environment. (English)  
W.H.O. Chron., 27, 344-6, Sep. 73.  
[Environmental Exposure, Human, Maximum Permissible  
Exposure, World Health Organization]  

A longitudinal study of bronchitic symptoms and spirometry  
in a middle-aged, male, industrial population. (English)  
Sharp, J. T., Paul, O., McKeen, H., Best, W. R. Amer. Rev.  
resp. Dis., 108, 1066-87, Nov. 73.  
[Airway Obstruction Aetiology, Bronchitis Occurrence,  
Cough, Dyspnœa, Occupations, Respiration, Smoking  
Complications, Spirometry]  

Prodromal dysimmunity in cancer. Pathophysiology of pre-and  
perineoplastic immune deficiency disorders that may repre- 
sent syndromes of transition from dysimmunity to cancer.  
(English)  
[Asbestosis, Autoimmune Diseases, Blood Protein Dis- 
orders, Dermatitis Exfoliative, Dermatitis Herpetiformis,  
Granuloma, Histocompatibility, Immunity Cellular, Immu- 
nomological Deficiency, Keratosis, Liver Neoplasms  
Immunology, Lung Diseases, T-lymphocytes, Precancerous  
Conditions]  

Occupational damage to the peripheral nervous system  
(author's transl.). (German)  
Delank, H. W. Z. Neurol., 205, 71-81, 29 Aug. 73.  
[Accidents Industrial, Bone Diseases Aetiology, Disability  
Evaluation, Lead Poisoning Complications, Peripheral  
Nerve Disease Aetiology, Polyneuritis, Pressure Adverse  
Effects, Semilunar Bone, English Abstract]  

Whither occupational medicine? (English)  
[Absenteeism, Communication, Costs and Cost Analysis,  
Employment, Fatigue Complications, Poisoning Preven- 
tion and Control, Stress Psychological]