

Z/038/62/000/004/001/006  
D291/D301

AUTHOR: Hupka, Stefan

TITLE: Basic types of directional gamma radiation detectors and their use in medicine - I

PERIODICAL: Jaderná energie, no. 4, 1962, 110 - 116

TEXT: The article presents a general review of the basic types of directional gamma-radiation detectors used in medicine for local diagnoses. It deals with the various current collimator designs for wide-angle, narrow-angle, and profilographic detectors, both single- and multichanneled, using either GM tubes or scintillators. Finally, it briefly describes the Czechoslovak "Scintillation detector-set type "TESLA MAG 202" produced by the n.p. Tesla-Liberec, Závod Přemyslení (National Enterprise Tesla-Liberec, Subsidiary in Přemyslení). The design of this detector permits the use of interchangeable cylindrical and conical collimators so that it can be used both as narrow-angle and wide-angle detector, but not as profilographic detector. In the narrow-angle configuration, the detector has a resolution of 2 cm at 10 cm

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Basic types of directional gamma ...

distance of a point source from the lower collimator end, while in the wide-angle configuration, the resolution is 1 cm at a focal distance of 8 cm. A well-type scintillator is furnished with the set making possible activity measurements of biological samples, such as blood, tissue, excretions, etc. There are 16 figures and 10 references: 1 Soviet-bloc and 9 non-Soviet-bloc. The references to the 4 most recent English-language publications read as follows: "Scintillation Equipment for Clinical Radiology"; Science Tools (The LKB Instrument Journal) 1956, no. 3, 21; E.R. Miller, N.E. Scofield, Radiology, 65, 1955, 96; R.R. Newell, W. Saunders, E.R. Miller, Nuclearonics 10, 1952, 26; W.V. Mayneord, S.P. Newbery, Brit. J. Radiol., 25, 1952, 589. (Technical Editor: J. Šilar).

ASSOCIATION: Výzkumný ústav onkologický (Oncological Research Institute), Bratislava

Card 2/2

HUPKA, S.

CZECHOSLOVAKIA

SIMKO, S.

no academic degree indicated

Oncological Research Institute (Výzkumný ústav onkologický), Bratislava;  
Director: corresp. member SAV, docent V. THURZO, MD.

Bratislava, Bratislavské Lekárske Listy, <sup>42</sup>No 9, Nov 62, pp 522-529.

"Gamma-ray in the Diagnosis of the Diseases of the Thyroid Gland"

Co-author:

HUPKA, S. same as above

HUPPENTHAL, Leslaw

Adsorption of polymethacrylic acid. Dependence on molecular weight. Roczniki chemii 37 no.9:1001-1008 '63.

1. Department of General Chemistry, N.Copernicus University, Torun.

ULINSKA, Alina; HUPPENTHAL, Leslaw

A two-liquid phase system for distribution of polymethacrylic acid.  
Rocz chemii 35 no.4:1153-1154 '61.

1. Department of General Chemistry, N. Copernicus University, Torun.

P/525/62/004/001/001/001  
D204/D307

AUTHORS: Ulińska, Alina, Docent, Doctor (Director, see Association), Huppenthal, Lesław and Wojtczak, Zbigniew

TITLE: The separation of polymethacrylic acid into fractions by adsorption on carbon

SOURCE: Towarzystwo Naukowe w Toruniu. Studia. Sectio B. Chemia. v. 4, no. 1-4, 1962, 7-16

TEXT: The aim of the present work was the separation of polymethacrylic acid (PMA) into fractions of various mean molecular weight ( $M$ ), using the single-step adsorption method of M.A. Golub. The purified PMA ( $M = 761,700$ , degraded from  $M = 1,180,000$ , 250 ml samples, 0.276%) was adsorbed on activated carbon supplied by Zakłady Elektrod Węglowych im. 1 Maja w Raciborzu (Carbon Electrode Works, im. 1st of May, Raciborz), from 20% EtOH, at  $25 \pm 0.1^\circ\text{C}$ , using 1 - 24 g portions of the carbon. The separated fractions were tested for concentration and viscosity, after removing EtOH at room temperature by bubbling  $\text{N}_2$  through the solution; this method avoids

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The separation of ...

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degradation of the polymer. The viscosity at first increased (preferential adsorption of short chains) and then fell off with time (adsorption of longer chains). Integral and differential mass distribution curves were typical of degraded polymers, with maxima in the low  $\bar{M}$  region. Reproducibility of the results was high. Fractionation of aqueous PMA with 5N  $H_2SO_4$ , carried out for the purpose of comparison, allowed no conclusions concerning the polymolecularity to be drawn and the results were irreproducible. Indications were found that PMA associated on contact with  $H_2SO_4$ . While the adsorption method required only 14 days, the  $H_2SO_4$  fractionation took several months. It is concluded that fractionation by adsorption is a convenient procedure, superior to other methods, allowing a rapid estimate of the distribution of  $\bar{M}$ -values, although the fractions themselves cannot be isolated and it is difficult to complete the process in full. There are 3 figures and 4 tables. The most important English-language reference is: M.A. Golub, J. Polymer Sci., 11, 585 (1955)

ASSOCIATION: Katedra Chemii Ogólnej Uniwersytety M. Kopernika w Toruniu (Department of General Chemistry, M. Copernicus University, Toruń)

Card 2/2

HUPPENTHAL, Leslaw, dr

Adsorption of polymethacrylic acid on activated carbon.  
Wiad chem 17 no.2:117-118 F '63.

1. Katedra Chemii Ogolnej, Uniwersytet Mikolaja Kopernika,  
Torun.

POLAND

HUPZENHILL, Leslaw, of the Department of General Chemistry, N. Copernicus University (Katedra Chemii Ogólnej, Uniwersytet N. Kopernika, Toruń), in Toruń.

"Adsorption of Polymethacrylic Acid. Dependence on Molecular Weight."

Warsaw, Roczniki Chemii, Vol 37, No 9, 1963, pp 1001-1008.

Abstract: [English article; author's summary modified] Author studied the adsorption of polymethacrylic acid on active carbon from ethanol-water solutions as function of molecular weight. It is seen from the graphs that: 1) adsorption decreases with increasing molecular weight of PII; 2) the intensity of adsorption depends on the solvent used. Equation has been developed representing adsorption as a function of molecular weight. The discussion of this equation is given. Sixteen references, including 1 Polish, 3 German, and 12 Western.

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- 10 -

HURAD, V.

Containers for the shipping of cement. p. 456. PRAVNÍ STAVBY.  
(Ministerstvo stavebnictví) Praha. Vol. 3, no. 11, Nov. 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

HURAB, V.

How to replace paper bags by steel when bulk cement is used.

P. 126 (Mechanisace) Vol. 4, No. 4, Apr. 1957, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (TEAI) LC. - VOL 7, NO. 1, JAN. 1958

HURAB, V.

"What contribution has the year 1957 brought to the further development of bulk cement transportation in Czechoslovakia?"

p. 427 (Mechanisace) Vol. 4, no. 12, Dec. 1957  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 4,  
April 1958

HURAB, V.

"What are the limits of the economical use of bulk cement?"

p. 201 (Mechanisace, Vol. 5, No. 6, June 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 9, September 1958.

HURAJ, E.; MAKAI, F.

On the problem of angiography in bone tumors. Acta chir. orthop.  
traum. Cech. 32 no.3:235-238 Je '65.

1. Ortopedická klinika Lekárskej fakulty Univerzity Komenského  
v Bratislave (prednosta akademik Slovenskej akadémie vied  
J. Cervenansky).

HURAJ, E. EXCERPTA MEDICA Sec 9 Vol. 9/10 Surgery Oct 55

5579. HURAJ E. Klin. ped. chir., Bratislava. \* Zlomeniny dolného konca humeru u detí. Fractures of the lower end of the humerus in children ROZHL. CHIR. 1954, 33/10 (594-600) Graphs 3 Tables 1  
On the basis of personal experiences with 215 fractures of the distal end of the humerus in children, 118 of which were followed-up, only conservative therapy - anatomical reduction and fixation in plaster - is recommended. Cases in which fragments are locked in the joint are operated on (3 cases). Systematic after-treatment is important (baths, instillation of procaine, iontophoresis, X-irradiation).  
Wondrák - Litoměřice

HURAJ, E.

Surgical treatment of nonspecific inflammation of long bones.  
Bratisl. lek. listy 43 Pt. 1 no.11:671-676 '63.

1. Ortopedická klinika Lekárskej fakulty Univ. Komenského v  
Bratislave, veduci prof. MUDr. J. Červenanský.  
(OSTEOMYELITIS) (BONE TRANSPLANTATION)  
(AMPUTATION) (TREPHINING)  
(SURGERY, OPERATIVE)

HURAJ, E.

Study of bone tissue by densitometry. Acta chir. orthop. traum.  
cech. 32 no.1:12-19 F'65.

1. Ortopedická klinika Lekárskej fakulty University Komenského  
v Bratislave (prednosta: akademik Slovenskej akadémie vied  
J. Červenanský).

HURAJ, E.

Spinal fractures treated at the orthopedic clinic of the Medical Department of the Slovakian University during 1942-52. Bratisl. lek. listy 34 no.9:1046-1064 Sept 54.

1. Z Ortoped. kliniky LFSU v Bratislave, prednosta prof. dr. J. Cervenansky.

(SPINE, fractures,  
hosp. statist.)

(FRACTURES,  
spine, hosp. statist.)

HURAJ, E.

Osteogenesis imperfecta congenita. Bratisl. lek. listy  
35 no.6:356-361 1955.

1. Z Ortopedickej kliniky LFUK v Bratislave, predn. clen  
korespondent SAV J. Cervenansky.  
(OSTEOGENESIS IMPERFECTA,  
congen.)

CZECHOSLOVAKIA

HURAJ, E.

1. Orthopedic Clinic LFUK (Ortopedická klinika LFUK), Bratislava; 2. Children's Surgical Clinic (Klinika pre detsku chirurgiu), Bratislava

Bratislava, Lekarsky obzor, No 5, 1963, pp 273-278

"The Severity of a Non-specific Suppurative Affection of Bones and Joints,"

CZECHOSLOVAKIA

HURAJ, E.

Orthopedic Clinic of the ~~Medical~~ <sup>Medical</sup> Faculty of Komensky University  
(Ortopedická klinika Lekárskej fakulty Univ. Komenského),  
Bratislava

Bratislava, Bratislavské lekárske listy, No 11, 1963,  
pp 671-675

"On the Surgical Treatment of Non-specific Inflammations  
of Long Bones."

HURAJ, E.; STENC, M.

Trauma to the spine in orthopedic work. Acta chir. ortop.  
traum. Cech. 31 no.4:313-318 Ag '64.

1. Ortopedická klinika lékařské fakulty University Komenského  
v Bratislavě (prednosta prof. dr. J. Curvenansky).

HURAJ, E.

Experiences with filling residual cavities in osteomyelitis  
with a muscle flap. Rozhl. chir. 42 no.7:491-495 JI '63.

1. Ortoped. klinika Lekárskej fakulty UK v Bratislave, prednosta  
prof. dr. J. Cervenansky.  
(OSTEOMYELITIS) (MUSCLE TRANSPLANTATION)

HURAJ, E.; ROS, E.

Reconstruction of pathological dislocations of the hip joint  
in children with capsular arthroplasty. Bratisl. lek. listy  
44 no.5:281-287 15 9'64

1. Ortopedička klinika Lek. fakulty Univerzity Komenskeho v  
Bratislave; veduci clen koreasp. Slovenskej akademie ved  
prof. MUDr. J. Cervanansky.

HURAJ, E.; MAKAI, F.

Importance of angiography in the diagnosis of tumors of the  
extremities. Bratisl. lek. listy 45 no.2:69-75 31 Ja '65

1. Ortopedická klinika lek. fak. Univerzity Komenskeho v  
Bratislave (veduci akademik J. Cervenansky).

ROS, E.; HURAJ, E.

luxation of the shoulder joint in childhood. Bratisl. lek.  
listy 45 no.2:87-91 31 Ja '65

1. Ortopedická klinika lek. fak. Univerzity Komenského v  
Bratislave (vedúci akademik J. Červenáky).

HURAN, Jiri, inz.

System of waterworks on the Danube. Vodni hosp 14 no.5:  
162-165 '64.

1. Ministry of Agriculture, Forestry and Water Resources  
Management.

HURAS, K.

"Budowa drewnianych kutrów rybackich i łodzi ratunkowych" (Construction of wooden cutters and life boats), by K. Huras. Reported in New Books (Nowe Książki), No. 12, June 15, 1956.

HURAYT, O.

Screw driver with glow discharge tube. Elektrotechnik 18  
no.8:236-237 Ag '63.

1. Elektrikar, Strba, okres Poprad.

HURDES, J.

Experiences in building complex rolling mills.

p. 484 (Inzenyrske Stavby) Vol. 5, no. 9, Sept. 1957, Praha, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

POPESCU, D., prof.; ROSIU, L.; HURDUC, A.

Experimental investigations concerning the placental oxytocic  
and tocogetic principle. Rumanian M. Rev. 3 no.4:75-77 0-D '59.  
(PLACENTA, extracts)  
(OXYTOCICS)

VASILE, Mirza D.; HURDUC, Mircea I.; GHEORGHIU, Tony C.

Division of nerve cells. Cas.lek.cesk 100 no.34:1063-1067 25 Ag '61.

1. Kolektiv pro biomorfologii pobočky Akademie R.L.R., Jassy a katedry histologie Ustavu pro lekarsko-farmaceutickou vyuku, Jassy.

(NEURONS physiol) (CELL DIVISION)

HURDUC, Miroslav I., BRATSKA, Alice S.

Epigenetogenesis as a form of mitotic cell division. Cas.lek.cesk 100  
no.34:1078-1080 25 Ag '61.

1. Laborator histologie lekárskeho ústavu, Jassy.

(CELL DIVISION)

PAPAFIL, E.; HURDUC, N.; POPA, M.; LAZAR, D.

Copper determination with the reagent p-amino-azobenzene.  
Anal St Jassy I 10 no.1:23-26 '64.

Conductometric titration of cooper. Ibid.:27-32

1. Laboratory of General And Physical Chemistry, "Al.I.Cuza"  
University. Submitted October 26-27, 1963.

PAPAFIL, E.; HURDUC, N.; POPA, M.; LAZAR, D.

Conductometric titration of copper. Anal St Jassy I 10 no.2:  
125-130 '64.

1. Laboratory of General and Physical Chemistry, "Al. I. Cuza"  
University.

RUMANIA

HURDUC, N., Candidate in Biological Sciences (Candidat in Stiinte Biologice), Bucharest [affiliation not given]

"Cosmobiology -- A New Science."

Bucharest, Natura. Seria Biologie, Vol 15, No 2, Mar-Apr 1963, pp 3- 12.

Abstract: A review article on the scope and characteristics of cosmobiology, with emphasis on the factors affecting space travel and the achievements of the Soviet Union in this field. Also discusses the prospects for this branch of science and speculates on the existence of life on Mars.

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Geologic and petrographic research in the central part of the Semenic Mountains. Dari seama sed 45:215-231 '57/58 [publ. '62].

GUREVICH, M.I. [Hurevych, M.I.]; BERSHTEYN, S.A.

Mechanism of the biological action of ultrasonics. Fiziol.zhur.  
[Ukr.] 10 no.4:508-515 J1-Ag '64.

(MIRA 18:11)

1. Institut fiziologii im. Bogomol'tsa AN UkrSSR, Kiyev.

L 3353-66 EWT(1)/EPA(s)-2/EWT(m)/T/EMP(t)/EMP(b) IJP(c) JL/JG/GG  
ACCESSION NR: AP5013481 UR/0185/65/010/005/0570/0571

AUTHOR: Baturicheva, Z. B.; Hurevych, N. Yu.; Tsyrlin, Yu. A. 4/1, 55 63

TITLE: The effect of ionic processes on the thermal destruction of capture centers in NaI(Tl) 7

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 5, 1965, 570-571

TOPIC TAGS: sodium chloride, radiative capture, ionic crystal 21, 44, 85

ABSTRACT: The authors studied the effect of ionic processes on the thermal stability of F-capture centers in NaI(Tl) crystals treated with x-rays at room temperature (50 kv, 10 ma, exposure 1 year). By assuming an ionic mechanism in the destruction of F-capture centers, values were obtained for the activation energy of structure-sensitive conductivity which are in good agreement with experimental results. It is concluded that the thermal destruction of F-capture centers is basically the result of ionic processes in the case of higher-than-room temperatures. Orig. art. has: 2 figures, 5 equations.

ASSOCIATION: VNDI Monokrystaliv m. Kharkov (VNDI of Monocrystals) 14, 55  
SUBMITTED: 13Jan65 ENCL: 01 SUB CODE: SS  
NO REF SOV: 002 OTHER: 002

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ACCESSION NR: AP5013481

ENCLOSURE: 01

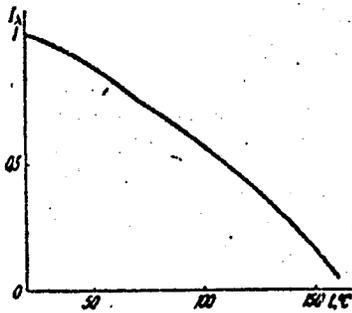


Fig. 1. Thermo-optical luminescence induced in the F-band of crystals of NaI(Tl) irradiated with x-rays at room temperature.

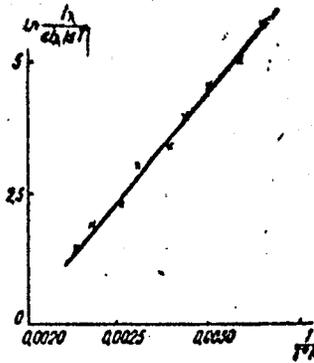


Fig. 2.  $\ln \frac{I_\lambda}{dT_\lambda/dT}$  as a function of inverse temperature; ( $I_\lambda$  is the rate of optical luminescence; T is the absolute temperature).

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The effect of prior illumination with light



SAVULESCU, Alice, acad.; ESAMU, V.; CALIN, Neli; NEGULESCU, Florica; GROSSU, Maria; HUROHISIU, Ileana

Morphologic, anatomic, physiological, Biochemic characteristics of some species of potatoes with different degrees of resistance to *Phytophthora infestans* (Mont.) de Bary fungus attack. *Studia cerc biol s. bot* 17 no.1:71-84 '64.

1. Laboratory of Phytopathology and Microbiology, "Traian Savulescu" Institute of Biology. Submitted August 5, 1964.

NOWACKI, E.; PRZYBYLSKA, J.; HURICH, J.

Dependence between content of guanidine derivatives and alkaloids  
in seeds of certain species of leguminous plants. Bul Ac Pol biol 8  
no.10:445-448 '60. (EEAI 10:9)

1. Institute of Plant Breeding, Poznan, Polish Academy of Sciences  
and Department of Fodder Plants, Institute of Soil Science, Manuring  
and Plant Cultivation, Poznan. Presented by S. Barbacki.

(Guanidine) (Alkaloids) (Legumes)

PRZYBYLSKA, J.; HURICH, J.

Free amino acids in seeds of some leguminous plants. Bul Ac Pol  
biol 8 no.11:505-508 '60.

1. Institute of Plant Breeding (Poznan) Polish Academy of Sciences.  
Presented by S. Barbacki.

(AMINO ACID) (LEGUMES)

HURIEZ, Claude

Treatment of eczema with special reference to antibiotic-corticoid therapy. Cesk. dermat. 38 no.1:1-10 F '63.

1. Prednosta dermatovenerologicke kliniky university v Lille.  
(ECZEMA) (MYCOSES) (OCCUPATIONAL DISEASES)  
(ANTIBIOTICS) (ADRENAL CORTEX HORMONES)

HURKA, K.; CHALUPSKY, J.

HURKA, K.; CHALUPSKY, J. The find of interesting ectoparasites of the bat  
Nyctis bechsteini Kuhl. p. 295.

Vol. 11, no. 10, Dec. 1956  
OCHRANA PŘÍRODY  
AGRICULTURE  
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

1978, 4.

"The fauna of predaceous ground beetles of the Carabidae family on the banks of the Holy Tigr, Volter Tigr, and Kachirou ponds."

p. 71 (Ocherna Prirady, Vol. 13, no. 3, Apr. 1988, Urala, Irkutskaya)

Monthly Index of East European Accession (MIEA) 11, Vol. 7, No. 3, 1978

HURKA, Karel, Dr., C.Sc.; (Vinicna 7, Praha 2); DOSKOCIL, Jaromir, Dr.,  
C.Sc. (Vinicna 7, Praha 2)

Influence of relative atmospheric humidity on the survival of bat-  
fleas (Aphaniptera, Ischnopsyllidae). Cas entom 58 no.2:111-116  
'61. (EEAI 10:9)

1. Department of Systematic Zoology, Faculty of Natural Sciences,  
Charles University, Praha.

(Fleas)

PULPAN, Jan (Praha 2, Vinicna 7); HURKA, Karel, dr. (Praha, Vinicna 7);  
VERNER, Petr H., dr. (Praha 2, Vinicna 7)

Three ground-beetle species, new in Czechoslovakia:  
*Nebria fuscipes* Fuss, *Deltomerus carpathicus* (Mill.)  
and *Amara pseudostremua* Kult. (Coleoptera). *Cas entom*  
59 no.2:124-130 '62.

1. Tschechoslowakische Entomologische Gesellschaft und  
Lehrstuhl für Systematische Zoologie der Karls-Universität,  
Praha.

HURKA, Karel, dr., C.Sc. (Praha 2, Vinicna 7)

Contribution to the study of Nycteribiidae and Streblidae  
in Albania and observations on their fauna in Bulgaria,  
Hungary and the Soviet Union. Cas entom 59 no.2:156-164,  
'62.

1. Lehrstuhl für Systematische Zoologie der  
Naturwissenschaftlichen Fakultät der Karlsuniversität,  
Praha.

MARTIN, E.; HURLIMAN, J.

The incidence of paraproteins in the blood in various clinical conditions. Cas. lek. cesk. 101 no.35:1061-1065 31 Ag '62.

1. Lekarska universitni poliklinika v Zeneve, reditel prof. dr. Eric Martin.

(GLOBULINS)

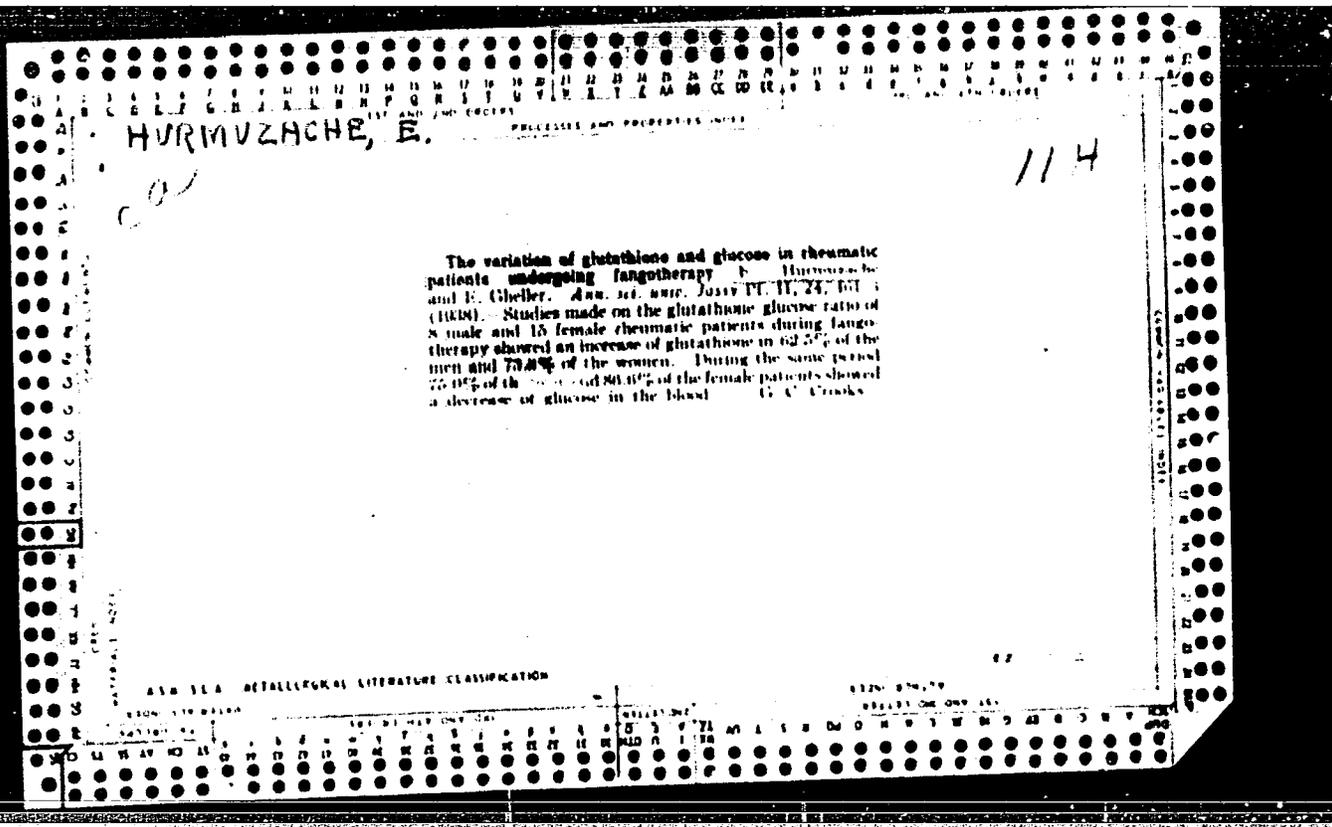
(BLOOD PROTEIN DISORDERS)

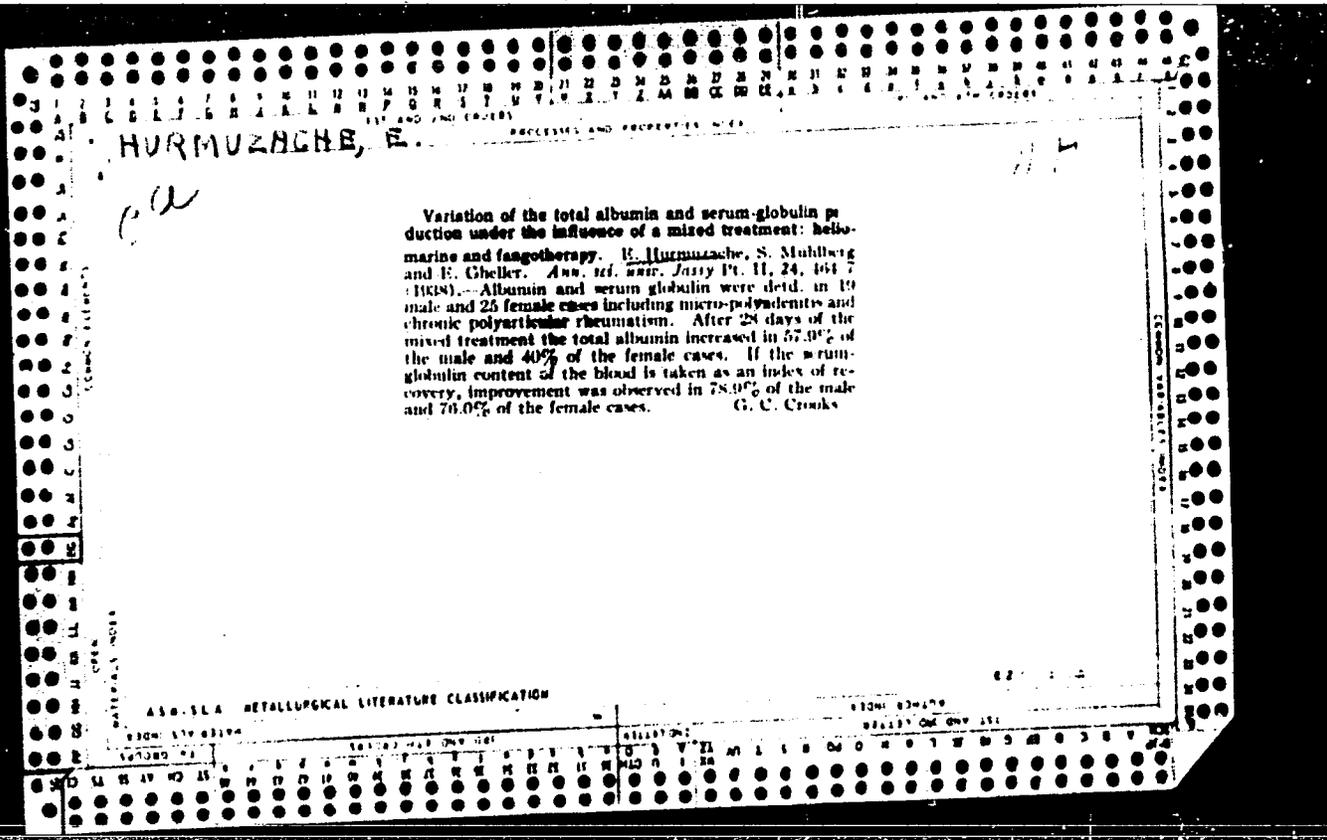
FRANCHE, M., Conf.; BRAUNER, M., dr.; ANDRONOVICI, Gh., dr.; MIHUL, V., dr.;  
BLINDU, P., dr.; FELER, H., dr.; VINTU, G., dr.; BEJENARU, G., dr.;  
RADULESCU, Alex., dr.; SABARESSA, L., dr.; HURMUZACHE, C., prof.;  
TUDORANU, O., dr.; SEGAL, B., dr.; MARCULESCU, G., dr.; LUNGU, I.,  
dr.; LUNGU, M., dr.; ZAHARESCU, T., dr.; BALMUS, P., conf.; BEJAN, V., dr.

Scarlatinal rheumatism. Med. int., Bucur. 9 no.1:67-70 Jan 57.

(RHEUMATIC FEVER, etiol. & pathogen.  
scarlet fever, incidence & prev.)  
(SCARLET FEVER, complications  
rheum. fever. incidence & prev.)







**HURMUZACH, S.** 11F

*Variations in blood iron and copper of children subjected to marine heliotherapy.* **H. Hurmuzach, S. Gheller and E. Gheller.** *Ann. sci. univ. Jassy* PT. II, 25, 203-4 (1970).—The Fe and the Cu contents of the blood of 25 children were detd. before and after spending 28-30 days at the seashore for their health. When the Cu content was relatively high before the cure, the Fe content increased. When both the Cu and Fe content were low before the cure, the Fe content did not change or become lower. Amy LeVesconte

ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION

HURMUZACHE E  
EXCERPTA MEDICA Sec 11 Vol 11/11 O. R. L. Nov 55

2093. THE MEDICAL AND SURGICAL TREATMENT OF OTOANTHRITIS IN THE INFANT - Contribuțiuni asupra tratamentului medical și chirurgical al otoantritelor la sugar - Hurmuzache E., Burdea M., Bărbuț R. and Haimovici M. Clin. Infant., Inst. de Med. Iași - REV. MED. CHIR. IAȘI 1957, 61/4 (839-847)

The authors studied 218 infants with otoantritis admitted into the paediatric clinic during the years 1954-1955 and come to the following conclusions: Complete medical treatment with antibiotics and the improvement of the general condition (transfusions, vitamin-therapy) are indicated in the majority of cases of otoantritis. Of all the means used for the improvement of the general condition, transfusion of blood correctly applied is the best. One should avoid late operation during the period of weakness of the organism (massive dehydration with decrease in weight, unconsciousness).

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The investigation revealed the superiority of the microclimatic conditions in a ward kept under a supervised regimen and a deterioration of environmental conditions during top-traffic hours and during the most intense activity in the hospital, as well as during the winter period; a comparatively uniform distribution of the microflora in the air of these rooms was also observed. 186 M. pyogenes strains were isolated from the air of the wards; 71 strains proved to be pathogenic. 77.5% were penicillin-resistant, 71.8% were streptomycin-resistant and 58.3% were chloramphenicol-resistant; the lowest percentage of resistance was found to chlortetracycline (43.7%). About 1/3 of the strains were resistant to all antibiotics. (XVII, 7, 50)

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