

PATAKY, Istvan

Development of garden construction along railroad lines.
Vasut 13 no.4:30 Ap '63.

LEMPERT, Karoly; BREUER, Judit; LEMPERTNE SRETER, Magda; PATAKY, Istvan;
PFEIFFER, Klara

Hydantoins, thiohydantoins, glycoyamidines. Pts. 1-2. Magy kem
folyoir 65 no.3:107-113 Mr '59.

1. Magyar Tudomanyos Akademia Kiserleti Orvostudomanyi Kutato
Intezete Korelettani Osztalya, Budapest, Eotvos Lorand Tudos-
manegyetem Szerves-Kemiai Intezete, Budapest, Orvostudomanyi
Egyetem Gyogyszertani Intezete, Budapest.

LEMPERT, Karoly; LEMPERTNE SRETER, Magda; BREUER, Judit; PATAKY, Istvan;
PFBIFER, A.Klara

Hydantoin, thiohydantoin, glycooyamidines. Pt.11. Magyar kem folyoir
69 no.4:143-149 Ap '63.

1. Magyar Tudomanyos Akademia Kiserleti Orvostudomanyi Kutato Intezete
Korelettani Osztalya, Budapest; Eotvos Lorand Tudomanyegyetem Szerves-
Kemiai Tanszeka es Budapesti Orvostudomanyi Egyetem Gyogyszeresertani
Intezete.

PATAKY, J.

HUNG.

Building up of a conditioned reflex on the diminution of ascorbic acid in the adrenals caused by asphyxia. E. Weisz, M. Haendel, J. Pataky, and P. Weisz (*Zeit. physiol. Chem.* 314, 1954, 204-210). The conditioned stimulus was the brown reagent solution which the rats were put for asphyxiation.

A. B. J. DENNIS

LUSZTIG, G.; JOZSA, L.; PERNECZKY, M.; SAJTOS, L.; PATAKY, J.; SZIKULAI, L.

The antiatherogenic effect of dextran and the question of mechanism of action. Kiserl. orvostud. 14 no.5:458-467 0 '62.

1. Bacs-Kiskun Megyei Tanacs Korhaza, Kecskemet, Prosecturaja, II. Belosztalya es Kojal labororium.

(DEXTRAN)

(BLOOD CHOLESTEROL)
(ARTERIOSCLEROSIS)

(LIPOPROTEINS)

JOZSA, Laszlo; SAJTOS, Lajos; PERNECZKY, Maria; BAKOCZAY, Laszlo;
PATAKY, Jozsef; LUSZTIG, Gabor

Change in the heparin content of the blood in alimentary hyperlipemia.
Kiserl. orvostud. 16 no.5:523-526 0 '62.

1. Kecskemeti Megyei Korhaz Korbonctani Osztalya os II. Belosztalya.
(HEPARIN) (HYPERLIPEMIA)

PATAKY, Jozsef; LUSZTIG, Gabor, Dr.

Chronic arsenic poisoning causing liver cirrhosis in several members of a family. Orv. hetil. 99 no.45:1580-1583 9 Nov 58.

1. A Bacs-Kiskun Megyei Korhaza (igazgato-foorvos: Strasser Laszlo dr.) Belosztalyanak (foorvos: Benedict Janos dr.) es Prosecturajanak (foorvos Lusztig Gabor dr.) kozlemenye.

(ARSENIC, pois.

contaminated drinking water causing liver cirrhosis in several members of a family (Hun))

(LIVER CIRRHOSIS, etiol. & pathogen.

arsenic-contaminated drinking water in several members of a family (Hun))

PATAKY, Jozsef, dr.; DOMJAN, Lajos, dr.; LUSZTIG, Gabor, dr.; FARAGO, Ferenc,
vegyeszmernok

Serum protein changes in silicosis and in tuberculosis. Tuberkulózis
15 no.7:215-217 J1 '62.

1. Bacs-Kiskun Megyei Tanacs Korhaza II. Belosztalyanak, Tudosztalyanak,
Prosecturajanak es Laboratoriumanak kozlemenye.
(TUBERCULOSIS PULMONARY blood) (SILICOSIS blood)
(BLOOD PROTEINS)

PATAKY, Jozsef, dr.; DENES, Laszlo, dr.; JUHASZ, Gyorgy, dr.;
LUSZTIG, Gabor, dr.

On the possibilities of dextran therapy of senile atherosclerosis. Magy. belorv. arch. 16 no.2:85-89 My '63.

1. Bacs-Kiskan Megyei Tanacs Korhaza Rendelointezete Belosztalya,
Idegosztalya, Prosecturaja es a Szocialis Otthon.
(ARTERIOSCLEROSIS) (DEXTRAN) (PLACEBOS)
(CEREBRAL ARTERIOSCLEROSIS) (CORONARY DISEASE)

FATAKI, Jozsef

Distortion reducing methods. Radiotechnika 13 no.9:328-330
S '63.

JOZSA, Laszlo; PERNECZKY, Maria; PATAKY, Jozsef; HONTI, Geza; LUSZTIG, Gabor

Study of the histamine-like effect of dextran. Kiserl. orvostud.
14 no.6:561-566 D '62.

1. Bacs-Kiskun Megyei Tanacs Korhaza Prosecturaja, II. Belosztalya
es Rendelointezet.

(ARTERIOSCLEROSIS) (DEXTRAN) (BLOOD PRESSURE)
(HISTAMINE LIBERATION) (BODY TEMPERATURE)

PATAKY, Jozsef, dr., tanar (Szekszard)

Formation and development of surface forms in agricultural regions.
Term tud kozl 6 no.1:10-12 Ja '62.

(Earth--Surface) (Agriculture)

3

HUNGARY

LUSZTIG, G.; JOZSA, L.; PRANCZYK, M.; SAJTOS, L.; PATÁKY, J.; SZIKULAI, L.; Autopsy Room and II. Ward of Internal Medicine of the Hospital of the Bacs-Kiskun Megye Council (Bacs-Kiskun Megyei Tanács Kórhaza, Prosectura, II. Belosztály) and Kójal [Közegészségügyi és Járványügyi Állomás -- Public Health and Medical Clinic for Contagious Diseases] Laboratory (Kójal laboratórium), Kecskemét.

"Antiatherogenic Effect of Dextran and the Question of Its Mechanism of Action."

Budapest, Kiserletes Orvostudomány, Vol 14, No 5, Oct 62, pp 458-467.

Abstract: [Authors' German summary abridged] During dextran treatment the following changes were observed: the iodine number of the blood increased; the amount of urinary cholesterol dropped markedly; endogeneous heparin in the blood tripled but this effect was inhibited by protamine sulfate; 80 ml intravenous dextran mobilizes endogeneous heparin equivalent to about 100 mg of exogeneous heparin. [68 references, approximately half Hungarian, half Western.]
1/1

HUNGARY

JOZSA, Laszlo; SAJTOS, Lajos; FERENCZKY, Maria; BAKOCZAY, Laszlo; PATAKY, Jozsef; IUSZTIG, Gabor; Department of Pathological Anatomy and II. Department of Internal Medicine of the Hospital of the Megye (Megyei Korhas Korbonctani Oss-talya es II. Belosztalya), Kecskemet.

"Changes in Blood Heparin Content in Alimentary Hyperlipemia."

Budapest, Kiserletes Orvostudomany, Vol 14, No 5, Oct 62, pp 523-526.

Abstract: [Authors' Hungarian summary] Time-dependent, quantitative changes in alimentary lipemia and in blood heparin level were studied. The heparin level drops earlier than the fat concentration rises, in case of a high dietary fat dose. The highest fat concentration and lowest heparin level are observed 2-4 hours after feeding. The rise in heparin content occurs before the drop in fat content. The conclusion is drawn that heparin is partially involved in the regulation of the fat level of blood. [17 ref's, mostly Western.]

1/1

PATAKY, J. 1951

"Reaction of Morphine With Serum."

Acta Medica (Budapest), 1951 2/2(319-232)

Abst: Exc. Med. 11, Vol. 5, No. 10, p. 1183

PATAKY, J.

WEISZ, K.; HANDRL, M.; PATAKY, J.; WEISZ, P.

The elaboration of conditioned reflex in connection with decreased adrenal ascorbic acid caused by asphyxia. Acta physiol. hung. 5 no.3-4:453-456 1954.

1. Pathophysiologisches Institut der Medizinischen Universitat, Budapest. (Eingegangen am 3. Juli 1953)

(ASPHYXIA, exper.

*eff. on vitamin C content of adrenal glands during conditioned reflex in rats)

(REFLEX, CONDITIONED

*in exper. asphyxia, eff. on vitamin C content of adrenal glands. in rats)

(VITAMIN C, metab.

*adrenal glands, eff. of exper. asphyxia in conditioned reflex in rats)

LUSZTIG, Gabor; SAJTOS, Lajos; PATAKY, Jozsef; LASZLO, Jozsa; PENECZKY,
Maria

Analysis of blood chemistry following dextran therapy. Kiseri.
orvostud. 14 no.1:28-40 Mr '62.

1. Bacs-Kiskun Megyei Tanacs Korhaz Prosecturaja, Belosztalya
es KOJALL Laboratoriuma.

(DEXTRAN pharmacol) (CHOLESTEROL blood)
(BLOOD PROTEINS pharmacol) (POTASSIUM blood)
(PHOSPHATES blood)

PATAKY, Jozsef, dr.; SZIKULAY, Lorant, dr.; SAJTOS, Lajos; JOZSA, Laszlo, dr.
PERNECZKY, Maria, dr.; LUSZTIG, Gabor, dr.

Clinical observations on arteriosclerosis and its relation to the
administration of dextran. Magy. Belorv. arch. 15 no.3:106-110
Je '62.

1. Bacs-Kiskun Megyei Tanacs Korhaza II. Belosztalyanak es
Prosecturajanak kezlomenye.
(ARTERIOSCLEROSIS ther) (DEXTRAN ther)

PATAKY, L.

Organizational problems in socialist public health regions.
Nepogeszsegugy 44 no.4:121-124 Ap '63.
(PUBLIC HEALTH ADMINISTRATION) (STATE MEDICINE)

PATAKY, L.

Pataky, L.; Pfeifer, A.; Hajdu, P.

"Contribution to the Examination of the Condition of Stimulation in the Central Nervous System." p. 41 (Acta Physiologica, Supplement to v. 4, 1953, Budapest)

SO: Monthly List of East European Accessions, Vol 3 No 6 Library of Congress Jun 54 Uncl

PATAKY, L.

Vaccination and pregnancy. *Magy. noorv. lap.* 16 no. 1-2:43-48 Jan 1953. (CJML 24:1)

1. Doctor. 2. Obstetric Department (Head Physician -- Dr. László Pataky) Szonyi District Hospital.

PATAKY, L.J.

"Contribution to the Study of Bosnian Underbrush." p. 261, (GODISNJAK, Vol. 2, 1953. Sarajevo, Yugoslavia.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

PATAKY, László, dr.

Improvement in the conditions of rural district physicians.
Népegészségügy 38 no.3:75-78 Mar 57.

1. Kórszeti orvos Csengod.
(PUBLIC HEALTH
in Hungary, problems of country district physicians (Hun))

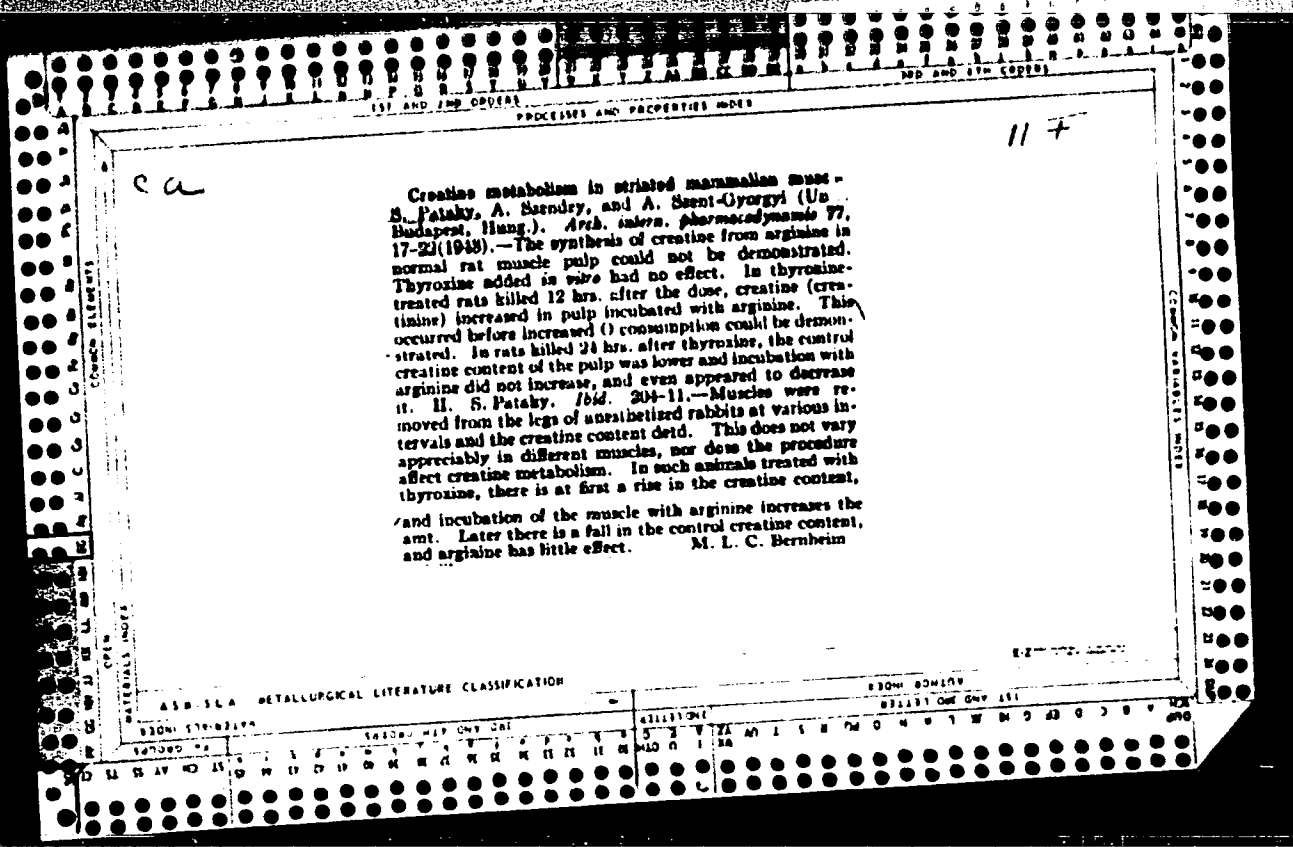
HUNGARY

NYIREDY, Istvan, Dr. doctor of veterinary sciences, BENEDEK, Laszlo, Dr.,
PATÁNY, Maria, Dr. candidate of veterinary sciences; National Animal Hygiene
Institute (Országos Allatorvosok Intézet) (director: KADAR, Tibor, Dr.,
candidate of veterinary sciences).

"Streptococcal Mastitis Infection of Cow Herds in State Farms."
Budapest, Magyar Allatorvosok Lapja, Vol 18, No 8, Aug 1963, pages 339-341.

Abstract: The author presents the distribution of pathogens which were
found to cause mastitis in cows. In 1961, almost 98 per cent of the disease
was caused by Streptococcus. Milk samples of all cows in 19 meadows have
been tested by the author. Streptococcus infection was found to range between
3.5-27.0 per cent, in various state farms. The results are tabulated in the
article. This high rate of infection was not manifested in a decreased milk
production. This is attributed to the fact that both healthy and diseased
cows had a rather low rate of milk production, about 10 liters/day. The
author urges the exclusive breeding of cows with high milk production but
warns that mastitis will become more pronounced when animals of more sensi-
tive constitution are used. 1 Western, 5 Hungarian references.

PATÁNY, S.,
S. PATÁNY, Arch. Int. Hyg. Aliment. Sanit., 1961-11(1961)



PATAKY S.
(308E)

Pharmacological Institute of the Peter Pazmany Univ. of Budapest, Hungary i. Investigations about creatine metabolism in striated mammalian muscle Archives Internationales de Pharmacodynamie et de Therapie 1948, 77/1 (17-22) Pages 7

The muscle pulp of a healthy adult rat is incapable, under given circumstances of synthesizing creatine from arginine. Thyroxin added in vitro neither increases nor decreases the creatinine content of the pulp. On the contrary, the muscle pulp of the animal given thyroxin in vivo gives a higher yield of creatinine. Gigli - Pisa

SO: EXCERPTA MEDICA, Vol. II, No. 6, Section II, June 1949

~~SZIGMOND SZIGMOND~~
PATAKY SZIGMOND, Dr.

New method for the bandaging of wound after goiter surgery. Magy.
sebeszet 10 no.2-3:166-167 Apr June 57.

1. Budapesti Orvostudományi Egyetem I. sz. sebészeti klinikájának
közleménye I gazgato: hedri Endre dr. Egyetemi tanár.

(GOITER, surg.

new bandaging method in prev. of postop. compl. (Hun))

(BANDAGING AND DRESSING

bandaging after goiter surg., new method for prev.
of postop. compl. (Hun))

EXCERPTA MEDICA Sec 9 Vol 13/6 Surgery June 59

3303. THE BLOOD SUPPLY OF THE PASSAGE BETWEEN THE SIGMOID CURVATURE AND THE RECTUM AND ITS SURGICAL SIGNIFICANCE - Die Blutversorgung des Darmüberganges zwischen Sigma und Rectum und ihre chirurgische Bedeutung - Palaky Z. and Karacsony A. I. Chir. Univ.-Klin., Budapest - CHIRURG 1958, 29/6 (248-252) Illus. 4

The anastomosis between the sigmoid artery and the superior haemorrhoidal artery, already described by Sudeck, is essential for the circulation of the passage between the sigmoid curvature and the rectum. It is shown that this intestinal portion, which is approximately 12 cm. in length, lacks the arcades that are present in other places, and that the blood supply from this anastomosis takes place only by means of end-arteries. Besides, it is shown that in one of the cases studied, this anastomosis itself is scarcely sufficient, so that, for instance, in rectum resections, the vitality of this portion of the intestine still has to be tested by means of methylene blue staining after injection into the inferior mesenteric artery.

Geelkerken - Gouda

CHATTEL, A.; PATAKY, Z.

Results obtained with Filatov's placental implantation in treatment of chronic polyarthritis. Orv.hetil. 91 no.32:977-982 6 Aug 50.

(GLML 20:5)

1. Dr. Professor Andor Chatel and Dr. Zsigmond Pataky, Lecturer at the hospital. 2. First Surgical Department (Head Physician--Dr. Ivan Reok), Beno Gal Central Hospital (Director--Dr. Istvan Halass) of the National Institute for Social Insurance and Metropolitan Medicinal Baths and Mineral Springs K.V. (Superintendent--Dr. Andor de Chatel).

Hungary/General Problems of Pathology - Shock

U-1

Abs Jour : Ref Zhur- Biol., No. 18, 1958, 84804

Author : Pataky, Z., Molnar, L., Palla, I.

Inst : ~~NO~~ institute is given

Title : The Prevention of Operative Shock by the Administration of Vitamin C

Orig Pub : Orv. hetilap, 1957, Vol. 98, No. 5-6, 98-100

Abstract : No abstract is given

Card 1/1

Pata ky, Zs.

Effect of operational stress on the functions of the suprarenal-gland cortex in old
age.
p. 349

A MAGYAI TUDOMÁNYOS AKADEMIÁ V. ORSZÁGOS BÉLŐPOLGÁRTANAK KÖZLEMÉNYEI.
Budapest, Hungary. Vol. 2, no. 3, 1955

Monthly List of East European Accessions (MEEA). LC. Vol. 9, No. 1, Jan 1960
Uncl.

PATAKY, Zs.; KARACSONYI, S.; CSONTAI, A.

Experimental operation on the sphincter of Oddi. Acta chir Acad
Sci Hung 2 no.3:311-315 '61.

1. 1st Department of Surgery (Director: Prof. E.Hedri) and 2nd
Department of Anatomy (Director: Prof. L.Haranghy) of the University
Medical School, Budapest.
(BILE DUCTS surg.)

PATAKY, Zsigmond, dr.; MOLNAR, Lajos, dr.; SZABO, Laszlo E.

Significance of adrenal cortical function tests in preoperative examinations. Orv.hetil. 100 no.41:1477-1479 0 '59.

1. A Budapesti Orvostudományi Egyetem I. sz. Sebészeti Klinikájának
(igazgató: Hedri Endre dr. egyetemi tanár) közleménye.
(ADRENAL CORTEX funct. tests)
(PREOPERATIVE CARE)

PATAKY, Zsigmond

Household role of the liquid-electrolyte-protein in old-age surgery.
Biol orv kozl MTA 11 no.4:431-440 '60. (EBAI 10:5)

1. Budapesti Orvostudományi Egyetem I. sz. Sebészeti Klinikája.
(SURGERY)
(PROTEINS)
(ELECTROLYTES)

ZOMBORI, Margit, dr.; GORACZ, Gyula, dr.; PATÁKY, Zsigmond, dr.

Contributions to the pathology of breast sarcoma. *Magy. sebész.*
16 no.6:385-389 D '63.

1. A Budapesti Orvostudományi Egyetem II sz. Kóronctani
Intézetének (Igazgató: Haranghy László dr. MTA levelező tag)
és a Budapesti Orvostudományi Egyetem I sz. Sebészeti Klinikájának
(Igazgató: Hedri Endre [deceased] dr. egyetemi tanár) közleménye.
(BREAST NEOPLASMS) (SARCOMA)
(SURGERY, OPERATIVE) (PATHOLOGY)
(CYSTOSARCOMA PHYLLOIDES)

PATAKY, Zsigmond, dr.; NAGY, Laszlo, dr.; POPIK, Ervin, dr.

Primary argentaffin tumor developing from the head of the pancreas. Orv.hetil. 100 no.39:1419-1420 S '59.

I. A Budapesti Orvostudományi Egyetem I. sz. Sebészeti Klinikájának (igazgató: Hedri Endre dr. egyetemi tanár) és a II. sz. Kóronctani Intézetének (igazgató: Haranghy Laszlo dr. egyetemi tanár) közleménye.

(PANCERAS neoplasms)

(ARGENTAFFINOMA case reports)

PATAKY, Zsigmond; HEREI, Gyula; CSILLAG, Antal; GERENDAS, Mihaly

Experimental studies on the surgical use of fibrin tubes. Kiserletes
orvostud 9 no.5-6:462-465 Oct-Dec 58.

1. Budapesti Orvostudományi Egyetem I. sz Sebészeti Klinikája és II. sz.
Korbonctani Intézete, valamint az Országos Verellato Szolgalat.

(BILE DUCT, COMMON, surg.

exper. repair with fibron tubes in dogs (Hun))

(FIBRON,

tubes in exper. repair of common bile ducts in dogs (Hun))

BETLERI, Istvan, dr.; PATAKY, Zsigmond, dr.

Case of polynuclear leukemia. Orv. hetil. 98 no.39:1087-1089
23 Sept 56.

1. A Fovarosí Uzsóki utcai Korház, Karoly, dr. az orvostudományok
doktora) Prosecturájának és a Budapesti Orvostudományi Egyetem I.
sz. Sebészeti Klinikájának (igazgató: Hedri, Endre, dr. egyet. tanár)
közleménye.

(LEUKEMIA, MYELOCYTIC, case reports
granulocytic leukemia (Hun))

PATAKY, Zsigmond, dr.; MOLNAR, Lajos, dr.; PALLA, Ilona, dr.

Prevention and warding off of operational shock by vitamin C.
Orv. hetil. 98 no.5-6:98-100 10 Feb 57.

1. A Budapesti Orvostudományi Egyetem I. sz. Sebészeti
Klinikájának (Igazgató: Hendri, Endre, dr. egyet. tanár)
közleménye.

(SURGERY, OPERATIVE, compl.

shock, prev. & ther. by vitamin C (Hun))

(SHOCK, prev. & control

vitamin C in surg. shock (Hun))

(VITAMIN C, ther. use

shock in surg. (Hun))

EXCERPTA MEDICA Sec.9 Vol.11/10 Surgery Oct 57
PATAKY Zs.

5398. PATAKY Zs., SZTANKAY Cs. and JELLINEK H. I. Chir. Klin. u. II. Pathol. - Anat. Inst., Med. Univ., Budapest. *Experimentelle Untersuchungen zur Bestimmung der Darmnekrosengrenze mit Färbeverfahren. Experiments for the determination of the boundaries of necrotic areas in the intestines, using staining methods ZBL.CHIR. 1956, 81/42 (2190-2194) Illus. 4

A new staining method is described, with which the viability and blood supply of the incarcerated or strangulated intestine can quickly be determined and the proximal and distal limits of the viable intestinal portion established.

PATAKY, Zsigmond, dr.

Use of adrenocortical steroids in surgery. (A review). *Magy. sebész.*
15 no.4:246-250 J1 '62.

1. As 1962 február hó 24-én megtartott "A mellekvesekereg hormonok szerepe a sebészi gyakorlatban" című anket anyagá.
(ADRENAL CORTEX HORMONES ther)
(SURGERY OPERATIVE)

MOLNAR, Lajos, dr.; PATÁKY, Zsigmond, dr.; KARACSONYI, Sandor, dr.

Simultaneous effect of vitamin C and noradrenalin on blood pressure. *Magy. belorv. arch.* 12 no.5:129-130 0 '59.

1. A Budapesti Orvostudományi Egyetem I. sz. Sebészeti Klinikájának (Igazgató: Hedri Endre dr. egyetemi tanár) közleménye.

(BLOOD PRESSURE pharmacol)
(VITAMIN C pharmacol)
(NOREPINEPHRINE pharmacol)

P. 47, 48, 49, 50

ACTA MEDICA Sec.9 Vol.12/3 1957 April 1958

2290. PRECISE DETERMINATION IN VIVO OF THE EXTENT OF INTESTINAL NECROSIS BY A STAINING METHOD - Pataky Zs., Sztankay Cs. and Jellinek H. 1st Dept. of Surg., 2nd Inst. of Pathol. Anat., Univ. Med. Sch., Budapest - ACTA MED. ACAD. SCIENT. HUNG. (Budapest) 1957, 10/3 (205-216) Illus. 4

Two techniques were tested in animal experiments: (1) Painting of the necrotic intestine and its surroundings with a 0.1% methylene blue solution. The dye is absorbed by normal tissue through the lymph tracts in approximately 2 min., so that the limits of the necrotic area become clearly visible. (2) Injection of 0.1% methylene blue or indigo carmine solution into a wide mesenteric artery. In both staining methods, the limits of the necrotic areas do not correspond with the clinical aspect, which is attributed to the development of vascular thromboses.

Fehr - Winterthur

PATAKY, Zsigmond, dr.

Ileocolic invagination presenting as rectal prolapse. Orv. hetil.
95 no.48:1329-1330 28 Nov 54.

1. A Budapesti Orvostudományi Egyetem I. sz. Sebészeti Klinikájának
(igazgató: Hedri Endre dr. egyet. tanár) közleménye.
(INTUSSUSCEPTION
ileocolic, surg.)

PATAKY, Zs.

Actual problems of geriatric surgery. Acta chir. Acad Sci Hung
2 no.1:67-72 '61.

1. 1st Department of Surgery Director Prof. E. Hedri) University
Medical School, Budapest.
(GERIATRICS surg)

EXCERPTA MEDICA Sec 9 Vol 13/10 Surgery Oct. 59

5942. EXPERIMENTAL RESULTS WITH LYOPHILIZED OESOPHAGEAL GRAFTS
- Erfahrungen aus Experimenten mit lyophilisierten Speiseröhrentransplanta-
ten - Pataky Zs., Molnár L. and Jakab Th. I. Chir. Klin., Med.
Univ., Budapest - ZBL. CHIR. 1958, 83:45 (2071-2077) Illus. 4

Homografts were made in 10 dogs. In the first group of animals the grafting was unsuccessful owing to stricture developing within 6-10 weeks. The results were better when Gerendas' fibrinous tube was also used in the grafting, as this prevented transverse shrinkage. After detachment or softening of the tube stricture developed also in the 10th to 12th week, but to a smaller degree. Histological examination revealed degeneration and absorption of the musculature with reactive inflammation and proliferation of the connective tissue. It is concluded that lyophilized oesophagus is unsuitable for clinical use, since the preserved oesophageal tissue is absorbed and replaced by connective tissue owing to lack of vascularization and innervation.

PATAKY, Zsigmond, dr.

Role of the adrenal gland with special reference to surgical risk.
Magy. sebeszet 14 no.6:351-356 D '61.

1. Budapesti Orvostudományi Egyetem I sz. Sebeszeti Klinikájának
közleménye Igazgató: Dr. Dr. h. c. Hadri Endre egyetemi tanár.

(SURGERY OPERATIVE) (ADRENAL CORTEX physiol)

PATAL, Pal, dr.

The significance of genital tuberculosis in the fight against tuberculosis. Orv. hetil. 103 no.37:1740-1743 16 3 '62.

1. Veszprem megyei Tvc Gondozo Intezet.
(TUBERCULOSIS, FEMALE GENITAL)

NIZOVA, S.A.; PATALAKH, I.I.; PAUSHKIN, Ya.M.

New polyconjugate systems and their electrophysical properties. Dokl. AN SSSR 153 no.1:144-146 N '63.

(MIRA 17:1)

1. Institut neftekhimicheskogo sinteza AN SSSR i Institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M. Gubkina. Predstavleno akademikom A.P. Vinogradovym.

ACCESSION NR: AP4017629

S/0190/64/006/002/0197/0200

AUTHORS: Kustanovich, I. M.; Patalakh, I. I.; Polak, L. S.

TITLE: Semiconducting properties of pyrolyzed polyacrylonitrile fibers

SOURCE: Vyssokomolekulyarnyye soyedineniya, v. 6, no. 2, 1964, 197-200

TOPIC TAGS: semiconductor, polyacrylonitrile, pyrolyzed polyacrylonitrile fiber, adsorption, n type conductivity, p type conductivity, p n junction

ABSTRACT: Investigations were made on polyacrylonitrile fabric and individual fibers. The fabric samples were 1 x 0.5 cm and 10 microns thick. They were heat-treated in a current of nitrogen for 120 hours to temperatures of about 650° for A samples and 550° for B samples. The A samples were heated in a vacuum of 10⁻⁴ mm Hg to 200°. In this range their electrical conductivity increased markedly, but after this it became independent of temperature. B samples were treated repeatedly in a vacuum, and this led to a sequential increase in conductivity and a decrease in activation energy. The experiments show that the effect of adsorption is responsible for the variations in the conductivity as well as for the sign of the thermoelectromotive force. The bulk of pyrolyzed polyacrylonitrile

Card 1/2

ACCESSION NR: ' AP4017629

has n-type conductivity, but the surface layer with adsorbed gases has p-type conductivity. These studies now make it possible to obtain experimentally p-n junctions in polyacrylonitrile. Orig. art. has: 4 figures.

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR (Institute of Petrochemical Synthesis AN SSSR)

SUBMITTED: 12Jul62

DATE ACQ: 23Mar64

ENCL: 00

SUB CODE: PH, CH

NO REF SOV: 003

OTHER: 000

Card 2/2

ACCESSION NR: AP4030375

S/0190/64/006/003/0545/0550

AUTHOR: Paushkin, Ya. M.; Polak, L. S.; Vishnyakova, T. P.;
Patalakh, I. I.; Machus, F. F.; Sokolinskaya, T. A.

TITLE: New iron-containing ferrocene-based polymers and their
electrophysical properties.

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 3, 1964, 545-
550

TOPIC TAGS: organic semiconductor, semiconducting polymer, ferrocene
polymer, ferrocene polymer preparation, electrical property

ABSTRACT: Fourteen new polymers based on ferrocene and a number
of aromatic compounds have been prepared by polyrecombination or
polycondensation, and their electrical properties have been studied
at the Moscow Institute of the Petrochemical and Gas Industry imeni
Gubkin. The polyrecombination of ferrocene and α -bromonaphthalene,
p-dichlorobenzene, benzonitrile, salicylic acid, salicylaldehyde, or
benzaldehyde, and of isobutyl-, isopentyl-, or isoctylferrocene alone

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ACCESSION NR: AP4030375

was carried out at 175—200C in the presence of tert-butyl peroxide at various starting material-to-peroxide molar ratios. Yields of 3—39% for soluble (dark-brown) and 23—77% for insoluble (black) solid polymers were obtained. The polycondensation of ferrocene with acetone in the presence of $ZnCl_2$ and hydrogen chloride at 56C formed soluble polymers; that of acetyl- or 1,1'-diacetylferrocene alone in the presence of $ZnCl_2$ at 200C and 180C respectively yielded both soluble and insoluble polymers. All the polymers but alkylferrocene-polyrecombination products gave a one-component signal in the EPR spectrum; x-ray structural analysis showed them to be amorphous, and IR spectroscopy, to be conjugated polymers. Electrical conductivity was studied at 20—300C and 1×10^{-4} or 760 mm Hg after degassing at 1×10^{-4} mm Hg and 50C for 3 hr. All the polymers showed a positive temperature coefficient and an exponential temperature dependence of conductivity. Electrical conductivity at 50C ranged from 1×10^{-12} to 1×10^{-9} $ohm^{-1} \cdot cm^{-1}$, and activation energy, from 0.3 to 1.74 ev (no degassing). Study of the effect of surface adsorption on the semiconducting properties of the 1,1'-diacetylferrocene polymer showed that the high activation energies (1.5 ev) are

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ACCESSION NR: AP4030375

caused mostly by surface adsorption and only to a small degree by π -electron excitation from the valence to the conduction band.
Orig. art. has: 4 tables, 2 figures, and 3 formulas.

ASSOCIATION: Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. Gubkina (Moscow Institute of the Petrochemical and Gas Industry)

SUBMITTED: 02Apr63

DATE ACQ: 07May64

ENCL: 00

SUB CODE: CH,PH

NO REF SOV: 011

OTHER: 002

Card 3/3

PATAN, I.; STEFANESCU, St.

Continous increase of labor productivity, the main
task of enterprises in the textile industry. Ind text
Rum 15 no. 1:1-5 Ja '64.

1. Secretary General of the Ministry of Light Industry
(for Patan).

L 8767-65 EWT(m)/EPF(c)/EWP(j)/T Pc-l/Pr-l WE/RM

ACCESSION NR: AT4008695

S/2982/63/000/014/0015/0026

3

AUTHOR: Paushkin, Ya. M., Vishnyakova, T.P., Sokolinskaya, T.A., Patalakh, I.I.,
Machus, F.F., Kurasheva, I.D.

TITLE: New iron-containing monomers and polymers of five-membered ring naphthenes

SOURCE: Moscow. Institut neftekhimicheskoy i gazovoy promy'shennosti. Trudy*, no. 44, 1963. Neftekhimiya, pererabotka nefli i gaza, 15-26

TOPIC TAGS: cyclopentadiene, ferrocene, iron dicyclopentadieny^l-, iron containing polymer, antiknock additive, manganese, (cyclopentadienyl) tricarbonyl-, five-membered ring naphthene, five-membered ring cyclane, epoxy resin, ferrocene derivative, ferrocene alkyl-, ferrocene acetyl-, ferrocene. polymer, naphthene, cyclane, antiknock compound, knock inhibitor, monomer, manganese compound

ABSTRACT: The production of cyclopentadiene and its homologs is of great importance since it is used as a basis for the production of the following products: ferrocene and its homologs, iron-containing polymers, a new antiknock compound - cyclopentadienyltricarbonyl manganese, epoxy resins, polymerized plastics, additives for copolymerization and high activity chemical poisons. Cyclopentadiene can be produced by the

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L-8767-65

ACCESSION NR: AT4008695

dehydrogenation of five-membered ring naphthenic petroleums. The metallo-organic compound ferrocene, based on cyclopentadiene, is obtained by the widely used amine method which guarantees a yield of 84-88%. The physical and chemical properties of ferrocene are discussed in detail. The preparation of ferrocene polymers and derivatives as described in the literature is presented. The alkylation of ferrocene by different olefins (iso-C₄H₈, iso-C₅H₁₀, and iso-C₈H₁₆) in the presence of 25% H₂PO₄ · BF₃ at the optimum conditions of 60C and a 5-hr. agitation period, is compared. With an increase in olefin molecular weight, there is a decrease in alkylate yield and ferrocene conversion accompanied by an increase of monoalkylferrocene content. The physical-chemical properties of the prepared alkylferrocenes are listed. Ferrocene and alkylferrocene were then used to obtain ferrocenyl-containing polymers by the polyrecombination reaction which consists of peroxide treatment at 170-200C. The joint polyrecombination of ferrocene with paradichlorobenzene, diphenol, α-bromonaphthalene and quinoline was also investigated and the data are tabulated. Soluble polymers were obtained by the polycondensation of ferrocene with acetone in the presence of ZnCl₂ + HCl. The preparation of polyferrocenylvinylene from acetylferrocene is described. All the iron-containing polymers give a single component signal in the

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L 8767-65

ACCESSION NR: AT4008695

EPR spectra, which indicates the presence of π -unpaired electrons. The electro-physical properties of iron-containing polymers are discussed. The structure of all the investigated polymers was confirmed by infrared spectroscopy. Orig. art. has: 5 tables and 4 formulas.

ASSOCIATION: Institut neftekhimicheskoy i gazovoy promy*shlennosti, Moscow (Institute of the Petroleum Chemistry and Gas Industry)

SUBMITTED: 00

ENCL: 00

SUB CODE: FP

NO REF SOV: 021

OTHER: 010

Card 3/3

L 8924-65 EPA(s)-2/EPI(m)/EPI(c)/EPR/EPA(w)-2/EWP(j)/T/EWP(q)/EWP(b)/EMA(m)-2
Pc-4/Pa-4/Pab-2/Pq-4/Pr-4/Ps-4/Pt-10 LIP(c)/RPL/AFNL/ESD(t)/RAFH(t)

ASD(a)-5/ESD(dp) WW/RM/WH

ACCESSION NR: AP4045098

S/0020/64/158/001/0141/0142

AUTHOR: Vlasov, A. V.; Glazunov, P. Ya.; Morozov, Yu. L.;
Patalakh, I. I.; Polak, L. S.; Tsatlin, B. L.; Rafikov, S. R. (Acad-
emician AN KazSSR)

TITLE: Synthesis of semiconducting combined materials by the
technique of gas-phase, radiation-induced, graft polymerization

SOURCE: AN SSSR. Doklady*, v. 158, no. 1, 1964, 141-142 19

TOPIC TAGS: organic semiconductor, semiconducting polymer, graft
polymerization, polymer glass grafting, polyphenylacetylene, poly-
acrylonitrile, pyrolysis, pyrolyzed polymer

ABSTRACT: A study has shown the feasibility of preparing fibers
combining the high mechanical strength of glass and the electrical
properties of organic semiconductors by the technique of gas-phase,
radiation-induced, graft polymerization; in addition, the high ther-
mal stability of glass makes it possible to heat treat (pyrolyze)
the fibers to produce the desired electrical properties. It is
noted that heretofore all organic semiconducting materials were

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ACCESSION NR: AP4045098

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either nonthermoplastic and insoluble powders or brittle fibers and fabrics. Radiation-induced graft polymerization was carried out in the absence of air in a glass two-chamber apparatus which made it possible to thermostat the glass fiber and the liquid monomer separately at different temperatures. The radiation source was an electron accelerator. The glass substrate was an ordinary, alkali-free glass fiber consisting of 1000 monofilaments 6-7 μ thick. Irradiation of the fiber at 150C in the presence of phenylacetylene yielded a material having an electrical conductivity of $1.3 \times 10^{-5} \text{ ohm}^{-1} \text{ cm}^{-1}$ at 300C. Irradiation of the fiber at 80C in the presence of acrylonitrile also yielded a material with semiconducting properties; pyrolysis in nitrogen at 500C produced a rise in conductivity and a drop in activation energy. The mechanical strength of the fiber was 40-50 kg/mm². Orig. art. has: 11 figure.

ASSOCIATION: none

SUBMITTED: 11May62

ATD PRESS: 3110

ENCL: 00

SUB CODE: MT, GC

NO REF SOV: 009

OTHER: 000

Card 2/2

43244

S/844/62/000/000/105/129
D204/D307

24.7800

AUTHORS: Gulyayev, G. V., Davydov, B. E., Krentsel', B. A., Patalakh, I. I. and Polak L. S.

TITLE: The effect of radiation on semiconducting polymeric materials

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962, 621-624

TEXT: The effects of γ and electron irradiation on polymers based on polyacrylonitrile (PAN) were studied, to determine the nature of such materials. The (powdered) specimens were prepared by catalytic or radiational polymerization; a polyacrylonitrile fabric was also tested. The specific electron conductance (σ , 10^{-10} ohms $^{-1}$.cm $^{-1}$) of hot-pressed (15,000 atm, 350°C) radiation polymerized PAN was lower than that of catalytically polymerized PAN (~2.6 - 3.6) and decreased, by a factor of 10 - 15, with increasing power of the dose used to induce polymerization (10^6 r, the rates were varied from 28

Card 1/2

VLASOV, A.V.; GLAZUNOV, P. Ya.; MOROZOV, Yu.L.; PATALAKH, I.I.; POLAK,
L.S.; RAFIKOV, S.R., akademik; ISETLIN, E.L.

Synthesis of semiconducting combined materials by the method
of gas-phase grafted radiation polymerization. Dokl. AN SSSR
158 no.1:141-142 S-O '64 (MIRA 17:8)

1. AN KazSSR (for Rafikov).

5
PAUSHKIN, YA.M., POLAK, I.S., VISHNYAKOVA, T.P., PATALAKH, I.I.,
MACHUS, P.F., SOKOLINSKAYA, T.A.

New ferrus-containing polymers on the basis of ferrocene and their electrophysical properties.

Report submitted for the International Symposium of Macromolecular chemistry
Paris, 1-6 July 63

KUSTANOVICH, I.M.; PATALAKH, I.I.; POLAK, L.S.

Effect of adsorbed gases on the electrophysical properties of
pyrolyzed polyacrylonitrile fibers. *Kin.i kat.* 4 no.1:167 Ja-P '63.
(MIRA 16:3)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Acrylonitrile polymers--Electric properties) (Adsorption).

L 58478-65 ENG(j)/EWT(m)/EPF(c)/EWP(j)/T/EWA(h)/EWA(c)/EWA(1) Pc-4/Pr-4/PeB RM
ACCESSION NR: AP5015241 UR/0286/65/000/009/0023/0023
541.15:547.313.2

AUTHOR: Glushnev, V. Ye.; Kolbanovskiy, Yu. A.; Patalakh, I. I.; Polak, L. S.;
Popov, V. T.; Shakhray, V. A.

TITLE: Radiation-induced synthesis of organic compounds with various functional groups. Class 12, No. 170503

SOURCE: Byulleten' izobreteniy i tovarnykh znakov no. 9, 1965, 23

TOPIC TAGS: radiation, radiation induced synthesis

ABSTRACT: An Author Certificate has been issued for a radiation-induced synthesis of organic compounds having various functional groups, such as carboxylic acids, amines, nitro and nitroso compounds, thio compounds, alcohols, etc. The method consists in the ionizing irradiation of a reaction mixture comprising a monomer, such as ethylene, and a reactant, such as CO₂, NH₃, NO₂, NO, H₂S, SO₂, H₂O, etc., which determines the type of the derivative formed. To increase the radiation yield and to obtain a compound having the desired molecular weight, the reaction mixture is irradiated in the presence of a catalyst, e.g., aluminum oxide or silica gel.

[SM]

Card 1/2

L-58478-65

ACCESSION NR: AP5015241

ASSOCIATION: none

SUBMITTED: 12Jun63

ENCL: 00

SUB CODE: GC, NP

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4019

Card

llc
2/2

PAUSHKIN, Ya.M.; VISHNYAKOVA, T.P.; SOKOLINSKAYA, T.A.; PATALAKH, I.I.;
MACHUS, F.F.; KURASHEVA, I.D.

New iron-containing monomers and polymers form five-membered
naphthenes. Trudy MINKHIGP no.44:15-26 '63.

(MIRA 18:5)

L 4579-66 EWT(m)/EPA(s)-2/EPF(c)/ENP(j)/T RM

ACC NR: AP5026987

SOURCE CODE: UR/0020/65/164/005/1065/1068

AUTHOR: Pauskin, Ya. M.; Polak, L. S.; Lunin, A. F.; Patalakh, I. I.

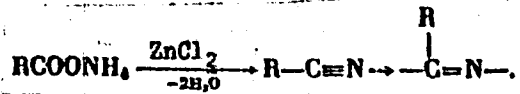
ORG: Moscow Institute of the Petrochemical and Gas Industry im. I. M. Gubkin (Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti); Institute of Petrochemical Synthesis im A. V. Topchiyev, Academy of Sciences, SSSR (Institut neftekhimicheskogo sinteza Akademii nauk SSSR)

TITLE: New synthesis method for nitrogen-containing polymers with conjugated bonds and their electrical properties

SOURCE: AN SSSR. Doklady, v. 164, no. 5, 1965, 1065-1068

TOPIC TAGS: organic semiconductor, semiconducting polymer, polynitrile, polymerization, electric property

ABSTRACT: A new preparative method has been developed for polynitriles. The method involves the heating of amides or ammonium salts of mono- and di-basic organic acids with a dehydrating agent (ZnCl₂):



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UDC: 541.64.67

09010812

L 4579-66

ACC NR: AP5026987

The method makes it possible to prepare polynitriles without resorting to such scarce starting materials as hydrocyanic acid. The polynitriles shown in Table 1 were pre-

Table 1. Structure and chemical and physical properties of polynitriles

No. starting material	Polymer structure	IR (cm ⁻¹)		NMR spectrum		Molecular weight
		ν _{C≡N}	ν _{C-N}	δ _H	δ _C	
1		2100	1450	1.8	1.5	—
2		2100	1650	1.8	1.5	—
3		2100	1750	1.8	1.5	—
4		2100	1750	1.8	1.5	—
5		2100	1750	1.8	1.5	—
6		2100	1750	1.8	1.5	—
7		2100	1750	1.8	1.5	—
8		2100	1750	1.8	1.5	—
9		2100	1750	1.8	1.5	—
10		2100	1750	1.8	1.5	—
11		2100	1750	1.8	1.5	—
12		2100	1750	1.8	1.5	—
13		2100	1750	1.8	1.5	—
14		2100	1750	1.8	1.5	—
15		2100	1750	1.8	1.5	—

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L 1579-66

ACC NO: AP5026987

0

pared. The optimum preparative conditions were determined. The polymers were dark-brown to black powders, infusible and insoluble in the common solvents, and exhibiting high thermal stability. Weight losses at 800C were 7-12%. IR spectra and elemental analysis data of the polymers were identical to those of polynitriles prepared by polymerization of the nitriles, confirming the proposed reaction mechanism and structures. X-ray structural analysis indicated the high crystallinity of the polymers. Table 1 shows the electrical properties of the polymers measured for pressed pellet samples. A correlation was found between activation energy for conduction and chemical structure of polymer repeat unit. This correlation is interpreted in terms of probability of disruption of conjugation. Orig. art. has: 1 figure and 2 tables. [8M]

SUB CODE: 00, EW SUBM DATE: 16Mar65/ ORIG REF: 008/ OTH REF: 002/ ATD PRESS:

4136

3/3 DP

PAUSHKIN, Ya.M.; VISHNYAKOVA, T.P.; PATALAKH, I.I.; SOKOLINSKAYA, T.A.;
MACHUS, F.F.

Ferrocene-based synthesis of polymers and some of their electro-
physical properties. Dokl. AN SSSR 149 no.4:856-859 Ap '63.
(MIRA 16:3)

1. Institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M.
Gubkina. Predstavleno akademikom A.V.Topchilyevym.
(Polymers) (Ferrocene)

PATALAKH, N.A.

Acute poisoning with castor bean seeds. Sud.-med.ekspert. 5
no.3:49-50 J1-S '62. (MIRA 15:9)

1. Bol'she-Tokmakskaya mezhrayonnaya sudebnomeditsinskaya
ekspertiza.

(CASTOR BEAN--TOXICOLOGY)

PATALAKH, P. K.

Cand Med Sci - (diss) "Changes in several functions of the liver in typhus-paratyphoid ailments." Khar'kov, 1961. 17 pp; (Ministry of Public Health Ukrainian SSR, Khar'kov State Med Inst); 200 copies; price not given; (KL, 7-61 sup, 261)

GAL'BINSHEYN, Z.N., inzh.; UL'INA, N.F., inzh.; NAUMOVA, M.V., inzh.;
FILINA, T.A., inzh.; KHODOS, M.M., inzh.; GOL'DMAN, Zh.I.;
PATALAKH, V.G.; SNESAREV, M.M.; VUL'FSON, Ye.S., inzh.;
KONSTANTINOVA, L.A., inzh.; SKOBELEVA, A.M., inzh.; TEL'NOVA,
Ye.V., inzh.; KHEYFETS, L.S., inzh.; SELENEVICH, A.S.;
NEDOVESENKO, M.V.; VOLKOVA, A.Ye.; NOVITSKIY, L.M., nauchn.red.;
NEFEDOV, S.F., red.; ROSTOTSKIY, V.K., red.; GORDEYEV, P.A., red.
izd-va; YUDINA, L.A., red.izd-va; VDOVENKO, Z.I., red.izd-va;
GOL'BERG, T.M., tekhn.red.; KOROBEKOVA, N.I., tekhn. red.

[Album of new construction equipment recommended for adoption]
Al'bum novoi stroitel'noi tekhniki, rekomenduemoi k vnedreniiu.
Moskva, Gosstroizdat, 1963. No.1. [Industrial construction] Pro-
myshlennoe stroitel'stv. 116 p. No.3. [Construction for transpor-
tation purposes] Transportnoe stroitel'stvo. 91 p. No.4. [Rural
construction] Sel'skoe stroitel'stvo. 71 p. No.5. [Building
materials, products, and elements] Stroitel'nye materialy, izde-
liia i konstruktsii. 41 p. No.8. [Construction and road machinery
and equipment] Stroitel'nye i dorozhnye mashiny i oborudovanie.
104 p. (MIRA 16:8)

(Building materials) (Road machinery)
(Construction equipment)

PATALAKHA, G.B.; KURBANAYEV, M.S.; IS'KIV, B.M.

Comparison of some methods of the statistical processing of spectral analysis in geochemical studies. Izv. AN Kazakh. SSR Ser. geol. 22 no. 6:69-74 N-D '65 (MIRA 12:1)

1. Institut geologicheskikh nauk imeni K.I. Satpayeva, Alma-Ata, i Kazakhskiy filial Vsesoyuznogo instituta matematicheskoy geofiziki, Alma-Ata.

PATALAKHA, Ye.I.

Determination of the orientation of flat structural elements
based on the core of crooked holes. Izv. AN Kazakh. SSR
Ser.geol. no.2:116-120 '62. (MIRA 15:6)
(Borings)

PATALAKHA, Ye.I.

Deformation of the concretions of the Uspenskoye copper deposit
in central Kazakhstan. Izv. AN Kazakh. SSR. Ser.geol. no. 44-57 '62. (MIRA 1962)
(Kazakhstan--Concretions) (Kazakhstan--Copper)

PATAI,AKHA, Ye.I.

Analysis of plastic homogenous strain in connection with the
study of subsurface tectonic deformations in rocks. Izv. AN
Kazakh.SSR. Ser.geol no.6:42-52 '62. (MIRA 16:5)
(Geology, Structural) (Rocks--Testing)

PATALAKHA, Ye.I.

"Milonitization" of barites as an index of the intensity
of mineral deformations in the Uspenskoye copper deposit.
Izv. AN Kazakh. SSR. Ser. geol. 22 no.1:62-74 Ja-F '65.

(MIRA 18:6)

1. Institut geologicheskikh nauk im. K.I. Satpayeva, g.Alma-Ata.

PATALAKHA, Ye.I.

Structure and stages in the formation of ore zones in the Uspenskoye
copper deposit (central Kazakhstan). Izv. AN Kazakh. SSR. Ser. geol.
nauk no.5:3-22 '63. (MIRA 17:1)

1. Institut geologicheskikh nauk AN KazSSR, Alma-Ata.

PATALAKHA, Ye.I.

Method for determining the elements of linear deposition. Vest.
AN Kazakh. SSR 18 no.7:60-63 J1 '62. (MIRA 15:7)
(Geological surveys)

49-4-21/23

AUTHORS: B.S. Neporent, V.F. Belov, O.D. Dmitriyevskiy,
G.A. Zaytsev, V.G. Kastrov, M.S. Kiseleva,
L.A. Kudryavtseva and I.V. Patalakhin.

TITLE: Experience gained in direct measurement of the distribution of the humidity of the atmosphere by means of the spectral method. (Opyt pryamogo izmereniya vysotnogo raspredeleniya vlazhnosti atmosfery spektral'nyim metodom).

PERIODICAL: Izvestiya Akademii Nauk, Seriya Geofizicheskaya, 1947, No. 4, pp. 552-555 (USSR).

ABSTRACT: Some recent American communications (Refs. 5-7) refer to investigating the spectrum of the Sun in the infrared range during flights in the upper layers of the atmosphere, in which observation of absorption bands of water vapours, are mentioned and views are expressed on the possible concentrations of these vapours. In this paper the results are described of the first attempts to determine directly the content of water vapour in the atmosphere by means of specially designed spectral apparatus. The operation of the instrument was described in detail by Neporent, B.S. et alii (Ref.8); it consists of a step-wise vacuum monochromator with a diffraction lattice of 300 lines/mm of the size 50 x 70 mm which subdivides the infrared range

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49-4-21/23

Experience gained in direct measurement of the distribution of the humidity of the atmosphere by means of the spectral method.

into five sections (1.24, 1.40, 1.50, 1.88, 2.2), the wave-lengths 1.40 and 1.88 belong to the absorption bands of water vapour; utilization of two bands is provided for extending the range of the measured water concentrations. The wave-lengths 1.24, 1.50 and 2.2 fall between individual bands and serve for determining the initial intensities in the bands 1.40 and 1.88 by means of interpolation. The linear dispersion of the instrument equals 100 μ /mm; the entry and exit slots are 1.5 mm wide. Illumination of the input slot is effected by means of a source with a circular emanating surface fitted with a dispersion plate of magnesium oxide. Experiments carried out at ground level showed that, in the operating range of the spectrum, the role of radiation scattered by the sky is insignificant. The measured radiation is modulated with a frequency of 850 c.p.s. using as a receiver of the radiation a cooled PBS photo resistance. After amplification, the signals are transmitted by radio to the ground. In addition to the basic signals transmitted in the operating position of the diffraction lattice (which is turned by means of a cam), calibrating signals are

Card 2/4

49-4-21/23

Experience gained in direct measurement of the distribution of the humidity of the atmosphere by means of the spectral method.

transmitted and also signals from the pressure gauge, etc. The respective switching is effected by means of a commutator which is coupled with the cam for scanning of the spectrum. The full cycle of the instrument is 2.5 secs and, therefore, the slow changes of the location of the scattering plate of the light source relative to the Sun's rays caused by random oscillations of the instrument during free flight should not effect the results of determination of the relative intensities of the adjacent parts of the spectrum. The results are plotted in graphs. Fig. 1 shows the calibration curve obtained on the basis of the exponential law; Fig.2 shows the graduation curve obtained on the basis of the square root; Fig.3 shows a part of the absorption band of water vapour (1.4μ) measured on the spectrometer with altitude scanning, whereby the spectral width of the slot is shown at the bottom part of this figure. Fig.4 shows the dependence of the absorption function A on the altitude (up to 17 km) for the band 1.4μ ; Fig.5 shows the dependence of the quantity of water precipitating along the vertical on the height reached by the instrument; Fig.6 shows the dependence of

Card 3/4

49-4-21/23

Experience gained in direct measurement of the distribution of the humidity of the atmosphere by means of the spectral method.

water concentration in the atmosphere on altitude, in mm of water precipitated per 1 km of the layer. Although the obtained data require further checking, they do indicate the usefulness of the described method and apparatus for such measurements. Increased accuracy and sensitivity of the instrument for measuring low water concentrations could be achieved by using more intensive absorption bands.

There are six figures and 12 references, 4 of which are Slavic.

SUBMITTED: November 13, 1956.

AVAILABLE: Library of Congress'.

Card 4/4/

НЕПОРЕНТ, Б.С.; БЕЛОВ, В.П.; ДМИТРИЙВСКИЙ, О.Д.; ЗАЙТСЕВ, Г.А.; КАСТРОВ, В.Г.;
КИСЛЕВА, М.С.; КУДРЯВТСЕВА, Л.А.; ПАТАЛАХИН, И.В.

An attempt to measure the altitudinal distribution of atmospheric
moisture content by means of spectrum analysis. Izv. AN SSSR.
Ser.geofiz. no.4:552-555 sp. '57. (MIRA 10:?)
(Moisture--Measurement)

PATALAS, K.

Quantitative investigations of diurnal and seasonal variations in pelagic Crustacea in Charzykowskie Lake.

p. 31
Vol. 2, no. 1, 1954
POLSKIE ARCHIWUM HYDROBIOLOGII
Warszawa

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 12
December 1956

PATALAS, K.

Plankton Crustacea as a food base for the small whitefish (Coregonus
albula) population in Charzykowskie Lake.

p. 259
Vol. 2, no. 1, 1954
POLSKIE ARCHIWUM HYDROBIOLOGII
Warszawa

So: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 12
December 1956

VATARIAS, J.

Seasonal changes in a community of coral reef fishes and their relationship to the background of the coral reef ecosystem.

(PUBLISHED IN: *Journal of Marine Research*, Vol. 3, 1965, p. 1-10)

C: Monthly List of Publications in Progress (U.S. Dept. of Commerce, Bureau of Oceanography, Inc.)

Patalas, K.

A conference on methods in Mikolajki. p. 83

(Ekologia Polska, Seria B. Vol. 3, No. 1, 1957. Warszawa, Poland)

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