

NAVRATIL, Josef, MUDr.

Gunshot wound of the trachea with a key fragment. Cesk.  
otolar. 6 no.1:54-55 Feb 57.

1. Otolaryngologicka klinika FU v Olomouci, prednosta prof.  
MUDr. Frantisek Ledl.  
(TRACHEA, wounds and injuries,  
key fragment inj. (Cx))

NAVRATIL, Josef, MUDr.

Bilateral paralysis of recurrent nerve caused by chronic foreign bodies in the pharynx. Cesk. otolar. 6 no.3:142-143 June 57.

1. Otolaryngologická klinika FÚ v Olomouci, přednosta prof. MUDr. František Ledl.

(PHARYNX, foreign bodies

nail causing bilateral paralysis of recur. nerve (Cs))

(NERVES, VAGUS, paralysis

bilateral of recur. nerve caused by nail in pharynx (Cs))

NAVRATIL, JOSEF

NAVRATIL, Josef, MUDr.

Jacksonian epilepsy caused by anesthesia prior to tonsillectomy.  
Cesk. otolar. 6 no.3:151-153 June 57.

1. Otolaryngologická klinika PU v Olomouci, přednosta prof. MUDr.  
František Ledl.

(ANESTHESIA, inj. eff.

focal epilepsy in preop. anesth. for tonsillectomy (Cs))

(EPILEPSY, etiol. & pathogen.

focal caused by preop. anesth. for tonsillectomy (Cs))

~~NAVRAJIL~~ ~~...~~ MUDr.

New therapeutic possibilities in esophageal strictures in children.  
CesK. pediat. 12 no.8:700-706 5 Aug 57.

1. Otolaryngologicka klinika FU v Olomouci, prednosta prof. MUDr.  
F. Ledl.

(ESOPHAGUS. stenosis  
caustic in child., ther., penicillin (Cs))

(PENICILLIN, ther. use  
caustic stenosis of esophagus in child. (Cs))

EXCERPTA MEDICA Sec.9 Vol.11/10 Surgery Oct 57  
NAVRÁTIL, J.

5323. NAVRÁTIL J. Otolaryngol. Klin. PÚ, Olomouc. \*Léčení poleptání jícnu bez sondáže - penicilinem. The treatment of oesophagus corrosions with penicillin without bouginage BRATISLAVSKÉ LEKÁRSKÉ LISTY 1957, 37/1 (29-35) Tables 1

Within 5 yr. a total of 21 patients were treated with penicillin. Of these there were 19.06% very severe, 42.85% severe and 38.09% slight cases. All of them are now free from complaint and without signs of oesophagus stenosis. Three patients who came late for treatment were treated with both penicillin and bouginage at the same time. These so far are also free from symptoms. Special emphasis is laid upon the early and continuous treatment with penicillin for as long as is necessary in order to ward off the secondary infection, which, according to Wiethe and Krey, is the cause of the formation of granulations, which, in turn, brings about the cicatricial stenosis.

EXCERPTA MEDICA Sec 11 Vol 12/2 O.R.I. August 59

1481. LOCALIZED AMYLOIDOSIS OF THE LARYNX - Lokální amyloid hrtanu -  
Navrátil J. and Fuksal J. Otorhinolaryngol. Klin. Palackého Univ.,  
Olomouc - BRATISL. LEK. LISTY 1958, 38 (II)/12 (733-737) illus. 2

A case of primary tumorous amyloidosis of the larynx in a 32-year-old man, with  
a progressive course lasting 21 yr., is described. After 9 months' treatment with  
cortisone, antibiotics and vitamins E, combined with several excisions from the  
larynx, the lesion was almost totally healed and breathing and speech were normal-  
ized. (XI, 5)

NAVRATIL, J.; TRMCKA, J.

A dangerous complication following resection of the processus styloides  
prolongatus bilateralis. Cesk. otolar 8 no.2:105-107 Apr 59.

1. ORL klinika Palackeho university v Olomouci, predmosta prof. MUDr.  
Fr. Ledl a neurologicka klinika Palackeho university v Olomouci, predmosta  
prof. MUDr. J. Hrbek.

(TEMPORAL BONE, surgery,

styloid process resection, postopl. thrombosis & compl.(Cz))

(CEREBRAL EMBOLISM AND THROMBOSIS, case reports,

postop. after resection of styloid process (Cz))

NAVRATIL, J.

Warthin's tumor of the parotid gland. Cesk. otolar. 8 no.3:138-139  
June 59.

1. Otorinolaryngologicka klinika ~~FS~~ v Olomouci, prednosta prof. MUDr.  
Frant. Ledl.

(ADENOLYMPHOMA, SALIVARY, in aged

Warthin's tumor of parotid gland, case report (Cz))

(PAROTID GLAND, neoplasms

Warthin's tumor in aged, case report (Cz))



NAVRATIL, J.; HOFMANOVA, H.

Bronchitis fibrinosa in bronchoscopic picture. Cesk.pediat. 14  
no.9:795-798 S '59.

1. Otorhinolaryngologicka klinika PU v Olomouci. Prednosta: Prof.  
MUDr. Frant. Ledl. Detaka klinika PU v Olomouci. Prednosta: Doc.  
MUDr. Ant. Mores.

(BRONCHITIS in inf.& child.)  
(INFLUENZA in inf.& child.)

NAVRATIL, Josef

Tuberculosis of the nasal bones and its therapy. Cesk. otolar. 9  
no.1:56-59 F '60.

1. Otolaryngologicka klinika FU v Olomouci, prednosta prof. MUDr.  
Fr. Ledl.

(NOSE dis.)

(TUBERCULOSIS OSTEOARTICULAR ther.)

NAVRATIL, J.

A review of steroid and ACTH therapy in otorhinolaryngology.  
Cesk. otolar. 9 no.3:182-187 Je 1960.

1. Otorinolaryngologicka klinika FU v Olomouci, prednosta prof.  
dr. F. Ledl.

(CORTICOTROPIN ther.)

(STEROIDS ther.)

(OTORHINOLARYNOLOGY ther.)

NAVRAJIL, J.; BARBORIK, M.; HANSJIAN, L.

Lesions of the upper respiratory tract caused by fluorine during the production of superphosphate. Cesk. otolar. 9 no.4:199-201 Ag '60.

1. Otorinolaryngologicka klinika PU v Olomouci; Ordinariat nemoci s povolani pri I. interni klinice PU v Olomouci; Krajska hygienicko-epidemiologicka stanice v Olomouci.

(RESPIRATORY SYSTEM dis.)

(OCCUPATIONAL DISEASES )

(FLUORINE toxicol.)

NAVRATIL, Josef; SIROKY, Jan

Spontaneous tympanoplasty after radical surgery. Cesk. otolar. 10  
no.2:73-76 Ap '61.

1. Otorinolaryngologicka klinika lek. fak. PU v Olomouci.

(EAR MIDDLE surg)

SIROKY, Jan; NAVRATIL, Josef

Results of audiological examination in workers in a testing room  
for pumps. Pracovni lek. 13 no.6:291-294 Ag '61.

1. Klinika chorob usnich, nosnich a krenich PU v Olomouci, prednosta  
prof. MUDr. Frant. Ledl.

(AUDIOMETRY)

NAVRATIL, Josef; ZEMAN, Bronislav

Clinical significance of graphic registration of the left ventricle in the esophagus (esophagoatriogram). Preliminary report. Cas. lek. cesk 100 no.35:1096-1100 1 S '61.

1. I vnitřní oddělení Ústřední vojenské nemocnice, Praha, náčelník docent MUDr. Vladimír Dufek.

(MITRAL VALVE diseases) (ELECTROCARDIOGRAPHY)

NAVRATIL, Josef

Mediastinal emphysema - complication of tracheotomy. Cesk. otolaryng.  
11 no.2:90-95 Ap '62.

1. ORL katedra pri lekárske fakulte Palackého university v Olomouci,  
vedoucí doc. MUDr. J. Chvojka.  
(PNEUMOMEDIASTINUM etiol) (TRACHEA surgery)



SIROKY, Jan; NAVRATIL, Josef

Audiologic findings following radical surgery. Cesk. otolaryn. 11  
no.4:218-223 Ag '62.

1. Otolaryngologicka klinika lekarske fakulty Palackeho university v  
Olomouci, prednosta doc. dr. J. Chvojka.

(HEARING TESTS)

(SURGERY OPERATIVE)

NAVRATIL, J.

Chondroma of the larynx. Cesk. otolar. 11 no.5:266-269 '62.

1. Otolaryngologicka klinika lekarske fakulty Palackeho university  
v Olomouci, prednosta doc. dr. J. Chvojka.  
(LARYNGEAL NEOPLASMS) (CHONDROMA)

CZECHOSLOVAKIA

Major Bronislav ZEMAN, graduate physician (promovani lekar), Lt Col  
Josef NAVRATIL MD, Col Artur FLACH MD, Major Jiri BRET MD, Col Docent  
Vladimir DUPEK MD; First Department of Internal Medicine and Radiology  
Department of Central Military Hospital (I. vnitřni oddelení a  
rentgenologické oddelení Ústřední vojenské nemocnice.)

"Ways of Diagnosing Mitral Insufficiency."

Prague, Vojenske Zdravocnicke Listy, Vol 31, No 3, Jun 62, pp 108-114.

Abstract [English summary modified]: Review of published literature and  
of data in 39 patients: EKG, phonocardiogram, history-taking, X-ray,  
electrokymography, esophagoatriography, heart catheterization and  
angiocardiology only when mitral surgery is considered. Ten EKGs  
or other functional graphs, angiocardigram with explanatory drawing;  
10 Czech and 13 Western references.

NAVRATIL, J.

CZECHOSLOVAKIA

NAVRATIL, J., MD; SIROKY, J., MD.

Otolaryngological Clinic of the Medical Faculty PU  
(Otolaryngologicka klinika lekarake fakulty PU),  
Olomouc (for all)

Prague, Prakticky lekar, No 4, 1963, pp 140-141

"Loss of Hearing from Whooping Cough."

NAVRATIL, J (MD)

CZECHOSLOVAKIA

NAVRATIL, J., MD.

Prague, Prakticky lekar, No 13-14, 1963, p 555

"Results of Mastoidectomy of Mastoiditis of Masked Antibiotics in Children."

NAVRATIL, J.

Formation of personal homes as a topical problem in mental  
hygiene. *Activ. nerv. sup.* 6 no.1:106-107 '64

\*

NAVRATIL, J.

Congenital hemangioma of the larynx. Cesk. otolaryng. 13 no.3:  
175-178 Je'64

1. Otolaryngologicka klinika Lekarske fakulty PU [Palackeho  
university] v Olomouci; prednosta : prof. dr. J.Chvojka.

NAVRATIL, J.; KOTRLE, M.

Morphological changes in the ear ossicles in otitis media.  
Cesk. otolaryng. 13 no.5:305-308 O '64.

1. Otolaryngologicka klinika (prednosta prof. dr. J. Chvojka),  
katedra histologie a embryologie (vedouci doc. dr. M. Obrucnik,  
CSc.), lecarske fakulty Palackeho university v Olomouci.



NAVŘÁTIL, J.; OSTALOVÁ, B.

Congenital stridor and congenital anomalies of the tracheo-bronchial tree. Cesk. pediat. 20 no.7:634-636 Ji 1965.

1. Otolaryngologická klinika lékařské fakulty Jablonecké University v Olomouci (prednosta prof. dr. J. Chvořka) a oddelení pro tuberkulózu a choroby plícní fakultní nemocnice v Olomouci (vedoucí doc. MUDr. V. Riba).

Z/C59/62/060/003/002/007  
D406/D301

AUTHOR: Navrátil, Karel, Engineer

TITLE: Strain-gage balances for high-speed aerodynamic tunnels

PERIODICAL: Zpravodaj VZLÚ, no. 3, 1962, 91-93

TEXT: Wind-tunnel balances can be divided into (A) pin-type balances, installed inside the tunnel, either directly within the model, or behind the model which is supported by the pin, and (B) wall-type balances, located outside of the test chamber. The VZLÚ (Aeronautical Research and Test Institute) developed various types of three-component strain-gage balances for small high-speed wind tunnels which can measure the drag (N) and the lift (T) component of aerodynamic force, and the pitching moments (M). The "V 1" series includes balances of older design, with a fixed pin, intended for open-circuit wind tunnels. The test model is mounted on the pin which, by the influence of axial forces, loads a spiral measuring spring. All measuring points are equipped with "Froud M 120" strain

Card 1/2

Strain-gage balances ...

Z/059/62/000/003/002/007  
D406/D301

gages. Balances of this series are destined for  $N_{\max} = 5.5$  kg and  $T_{\max} = 5$  kg. The "V 3" series includes strut-type balances for supersonic wind tunnels, with measuring springs, exchangeable for forces of  $\pm 6$  to  $\pm 25$  kg. Strain gages "Proud B 600" are used with efficient thermal compensation. The "V 4" series includes balances for closed-circuit supersonic wind tunnels. The pin of this balance type is not fixed, but supported by balls and a membrane, and permits more precise determination of pitching moments. Strain gages type "Proud B 600" are used, and the spring is destined for  $N_{\max} = \pm 10$  kg. To calibrate the strain-gage balances, a contactless potentiometer has been designed which supplied a signal of  $\pm 1.5 \cdot 10^{-3}$  V/V and has a mean square error of  $2.5 \cdot 10^{-4}$  of its range. Balances for wind tunnels are still being developed, and this article is of an informative character only. There are 11 figures and 2 references.

Card 2/2

NAVRATIL, K.;RYBACEK, L.

Addendum to the Czechoslovak Pharmacopeia. *Cesk. farm.* 2 no.2:61-66  
Feb 1953. (GLML 24:4)

NAVRATIL, K.

Considerations on methods of extraction; tinctures and extracts.  
Cesk. farm. 2 no.10-11:381-388 Nov 1953. (CJML 25:5)

**HAVRATIL, K.**

Notes on organization and activities of the Central technical control laboratory. Cesk. farm. 4 no.4:208-210 May 55.

**(DRUG INDUSTRY**

in Csech., state control of drugs, Central technical control laboratory)

(13)

1. The Production, Distribution and Supply of Technology, Medical Products and Materials for the Vietnam, Cambodia, Laos, by the Army of the Republic of Vietnam (ARVN) (Article 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 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593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

NAVYRHTL, K.

CZECHOSLOVAKIA

NAVRATIL, K.

Bratislava, Farmaceuticky obzor, No 2, 1963, pp 76-82

"New Drugs and Forms of Information."



CZECHOSLOVAKIA

NAVRATIL, K., Dr. PhMr.

SPOFA (Sdruzeni podniku pro zdravotnickou vyrobou),  
Prague

Prague, Prakticky lekar, No 6, 1963, pp224-226

"Introduction of New Medicines and Information to  
Doctors in Our Socialistic Health Program and  
That of Other Countries."

CZECHOSLOVAKIA

NAVRATIL, K., Dr. PhMr.

SPOFA (Sdruzeni podniku pro zdravotnickou vyrobu),  
Prague

Prague, Prakticky lekar, No 7, 1963, pp 259-261

"Information on the New Czech Pharmaceutical Pre-  
parations."

CZECHOSLOVAKIA

NAVRATIL, K.

Bratislava, Farmaceuticky obzor, No 8, 1963, pp 347-356

"Diuretics, Their Development and Mechanism."

CZECHOSLOVAKIA

Dr. Karel NAVRATIL [Probable affiliation: Commission for Importation of Drugs, Ministry of Health (Komise pro d v o z Leciv MZd) Prague]

"New Commission for Evaluation of Foreign Drugs."

Prague, Ceskoslovenska Farmacie, Vol 12, No 2, Feb 63; p 114.

Abstract: Brief summary of reorganization and reassignment of the functions of approving the importation of foreign drugs, listing all governmental and other offices involved, and describing the new procedure. Organizational no individual names are given. All 3 references are to articles in 1962 in the intramural house organ of Spofa, "Farmakoterapeutické zpravy Spofa".

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CZECHOSLOVAKIA

Dr. PhDr. Karel NAVRATIL [affiliation not given,] Prague.

"New Drugs."

Prague, Ceskoslovenska Farmacie, Vol 12, No 4, May 63; pp 222-224.

Abstract : Data on Chyrsin pro Aerosol (trypsin-dipotrypsin); Inhalax (etheral oils - antibacterial & astringent); Isobenzoyipas (isoniazid & benzoyl Ca-PAS); Neomycin-Dacitracin ointment & powder; Ophthalmo-Neomycin and Ophthalmo-Neokort (neomycin & hydrocortisone); Syntospon (benzazoline, hexadithensulfonium iodide & phenobarbital - autonomic & CNS sedative); Tetracyklin-Fungicidin (tetracycline HCl & nystatin) and Vcelie Mleko [= 'bee milk'] (royal jelly.)

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NAVRATIL, K., Dr.Mr.,(Dlouha tr. 11, Praha 1)

Contribution to the problem of providing information on drugs.  
Cesk. farm. 14 no.6:273-275 Ag '65.

1. SPOFA-Sdruzeni podniku pro zdravotnickou vyrobu, Praha a  
Odborna informacni sluzba.

NAVRATIL, M.

Saving electric power. p.61. (Zeloznicar. Praha. No. 3, Mar. 1957.)

SO: Monthly List of East European Accessions.(EEAL) LC., Vol. 6, no. 7, July 1957. Uncl.

CZECHOSLOVAKIA/Optics - Optical Media.

K.

Abs Jour : Ref Zhur - Fizika, No 7, 1959, 16436

Author : Navratil, M.

List : -

Title : Measurement of Very Small Amplitudes of Translational Oscillations with the Aid of Light Interference.

Orig Pub : Jerna mech. a opt., 1958, 3, No 4, 119-122

Abstract : Description of an interference method for measuring the frequency and amplitude of high frequency oscillations of foundations of buildings, membranes of microphones, crystals of quartz, etc. The change in the interference pattern, arising upon reflection from glass plates, of which one is mounted on the source of vibration and the other is connected to a stationary observing instrument, is measured. The theory of the method is considered, an instrument is described, and results of measurements at frequencies from 1 to 3 kc and amplitudes from 1 to 14 microns are listed in the table. -- A.A. Zabelin

Card 1/1

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NAVRATIL, M., inz. dr.

Radiometric methods of measuring the clearance of thermal turbines  
at work. Strojirenstvi 14, no.12:937-944, D '64.

1. State Research Institute of Heat Technology, Prague.

NAVRATIL, M., inz. dr.

Contribution to the problem of electromechanical analogies.  
Strojirenstvi 13 no. 12: 883-891 D '63.

1. Statni vyzkumny ustav tepelne techniky, Praha.

NAVRATIL, M. inz. dr.

Capacity probe for radial clearance measurement inside gas turbines. Strojirenstvi 14 no.4:301-305 Apr '64

1. State Research Institute of Heat Technology, Prague.

NAVRATIL, Miroslav, inž. dr.

Measurement of mechanical quantities of heating turbine sets in the German Democratic Republic. Energetika Cz L. no.11:556-557 N 164.

1. State Research Institute of Heat Technology, Prague.

NAVRATIL, Miroslav, inz. dr.

A device for capacity measurement of radial play in combustion turbines. Stroj cas 15 no.5:443-457 '64

1. State Research Institute of Heat Technology, Prague.

NAVRATIL, M.

Organization of first aid in chemical industry. Pracovni lek. 4  
no.6:482-492 Dec 1952. (GLML 24:2)

REJSEK, K.;NAVRATIL, M.;PELNAR, P.

First aid in acute chemical poisoning. Prakt. lek., Praha 33 no.8:167-170 20 Apr 1953.  
(CINL 24:4)

1. Docent K. Rejsek, M. D. of the Clinic of Occupational Diseases and Work Hygiene, Prague. 2. M. Navratil, M. D. of ZKS Stalin Plant, Zalusí at Most. 3. P. Pelnar, M. D. of the Ministry of the Chemical Industry, Prague.

NAVRATIL, M.

**CZECH**

Industrial acute poisonings with carbon monoxide.  
Miroslav Navrátil (Ústí nad Labem, Prague). *Práce a  
Zdravotní péče* (1955).—Survey of 225 cases with statistical  
evaluation. L. J. Urtánek



NAVRATIL, Miroslav, MUDr.; WEIGNER, Jindrich, MUDr.

Medical and neurological aspects of sequelae of acute industrial poisoning with carbon monoxide. Pracovní lek. 7 no.5:268-273 Sept 55.

1. Z Ústavu hygieny práce a chorob z povolání v Praze, reditel prof. MUDr. J. Teisinger a z nervového oddelení OUMZ v Moste, prednosta prim. MUDr. J. Weigner.

(NERVOUS SYSTEM, in various diseases,  
carbon monoxide pois. in workers)

(OCCUPATIONAL DISEASES,  
carbon monoxide pois., neurol. aspects)

(POISONING,  
carbon monoxide, neurol. aspects in workers)

(CARBON MONOXIDE, poisoning,  
neurol. aspects in workers.)

EXCERPTA MEDICA Sec 15 Vol. 10/8 Chest Diseases Aug 57

2001. NAVRÁTIL M. Ústav. Hyg. Práce a Chorób z Povolání, Praha. \*Výsledky funkčního vyšetření systémů dýchání a oběhu u pracujících s dlouholetou expozicí asbestovému prachu. Respiratory and circulatory system function tests in workers with prolonged exposure to asbestos dust PRACOVNÍ LÉKARSTVÍ (Praha) 1956, 8/5 (329-333) Graphs 2

Fast vital capacity recording, ventilation equivalent and ECG were used for testing 60 employees of an asbestos factory. The effects of age, sex and associated disease conditions (emphysema) were marked in those over 50 regardless of X-ray findings of asbestosis. Exercise tolerance was significantly lower (expressed as O<sub>2</sub> ventilation equivalent) in those suffering from marked asbestosis.

Blumberg - Jevíčko (XV, 6, 17\*)

NAVRATIL, M., MUDr.; KRECEK, V.; CVACHOVA, L.

Significance of pneumotachography in detection of certain pathophysiological conditions of the lungs. Pracovni lek. 8 no.6:410-415 Dec 56.

1. Ustav hygieny prace a chorob z povolani red. prof. MUDr. J. Teisinger.

(LUNG DISEASES, diagnosis,  
pneumotachography (Cs))

(RESPIRATION, function tests,  
pneumotachography, diag. value (Cs))

NAV RATIL, M.

CZECHOSLOVAKIA/Pharmacology - Toxicology. Toxicology.

U-9

Abs Jour : Ref Zhur - Biol., No 3, 1958, 13124

Author : Navratil, M.

Inst : ~~Prakt. lekar~~

Title : The Effect of Carbon Monoxide on Circulation.

Orig Pub : Prakt. lekar, 1956, 36, No 4, 89-90.

Abstract : A study of 225 acute cases of industrial CO poisoning (including 28 severe and 2 fatal cases) revealed cardiac insufficiency and collapse in 8.4% of the cases, as well as transient myocardial involvement. No myocardial lesions were observed in cases of prolonged exposure to small doses of CO.

Card 1/1

~~NAVYALII, Miroslav, MUDr.~~

Use of oxygen & carbon dioxide mixture (carbogen, pneumoxyd) in the treatment of carbon monoxide poisoning. Pracovní lek. 9 no.1:50-51 Mar 57.

1. Ústev hygieny práce a chorob z povolání, reditel prof. MUDr. J. Teisinger.

(CARBON MONOXIDE, pois.

ther., oxygen with carbon dioxide (O<sub>2</sub>)

(OXYGEN, ther. use

carbon monoxide pois., with carbon dioxide (O<sub>2</sub>)

(CARBON DIOXIDE, ther. use

carbon monoxide pois., with oxygen (O<sub>2</sub>)

NAVHATIL, M. MUDr.; KRECEK, V.; CUACHOVA, L.

Incidence of emphysema in workers of an asbestos factory. Pracovní  
lek. 9 no.2:111-116 Apr 57.

1. Ustav hygieny prace a chorob s povolani, praha, reditel prof.  
MUDr Jaroslav Teisinger.

(EMPHYSEMA, PULMONARY, statist.  
in asbestos workers (Cz))

(INDUSTRIAL HYGIENE,  
incidence of pulm. emphysema in asbestos workers (Cz))

NAVRATIL, M.

MIROSLAV NAVRATIL, MUDr.

Problems of occupational transfer of patients with predominant signs of cardiac sclerosis. Pracovni lek. 9 no.2:138-140 Apr 57.

1. Ustav hygieny prace a chorob s povlani v Praze, reditel prof. MUDr J. Teisinger.

(CORONARY DISEASE,

coronary arteriosclerosis in workers, assignment of work (Cz))

(INDUSTRIAL HYGIENE,

occup. transfer for workers with coronary arteriosclerosis (Cz))

NAVRATIL, Miroslav (Praha 2, Vysehradská 49)

Evaluation of various examination methods in patients with decompensated cor pulmonale. Cas. lek. cesk. 97 no.21:657-661 23 May 58.

1. Ustav hygieny prace a chorob z povolani v Praze, reditel prof.  
Dr Jaroslav Teisinger.

(PULMONARY HEART DISEASE, diag.

technics & problems in patients with silicosis (Cz)

(SILICOSIS, compl.

pulm. heart dis., diag. technics & problems (Cz))



NAVRA~~TIL~~ ~~M.~~ KOC~~EC~~K, V.; CVACHOVA, L.

Determination of residual volume in an open circuit & interferometric analysis for nitrogen washed out from lungs & tissues. Cas. lek. cezk. 97 no.25:782-788 20 June 58.

1. Ustav hygieny prace a chorob z povolani v Praze, Reditel prof. Dr. Jaroslav Teisinger.

(RESPIRATION, funct. tests

residual volume in open circuit & interferometric analysis for nitrogen washed out from lungs & tissues (Cz))

(NITROGEN, determ.

in lungs & tissues, interferometric analysis, value in test of resp. funct. (Cz))

NAVRATIL, Miroslav

Ratio of ventilation and distribution in the lungs in sick pigs.  
(prac. lek. 16 no.102435-437 5'62)

1. Ústav Hygieny práce a chorob z povolání v Praze (reditel prof.  
dr. J.Teisinger, DrSc).

NAVRATIL, Miroslav; KRECEK, Vaclav; CVACHOVA, Libuse

Use of a new method of determination of residual air in respiratory function tests in chronic pulmonary diseases. Pracovni lek. 11 no.4: 180-183 May 59.

1. Ustav prace a chorob z povolani v Prase.  
(RESPIRATION, funct. tests,  
residual air determ. in lung dis. (Cs))

Therapy

CZECHOSLOVAKIA

UDC 616.233-022.2:616.24-007.65)-08

NAVRAŤIL, Miroslav; Institute of Work Hygiene and Occupational Diseases (Ustav Hygieny Prace a Chorob z Povolani), Prague, Director (Reditel) Prof Dr J. TEISINGER.

"Treatment of Chronic Bronchitis and Lung Emphysema."

Prague, Pracovni Lekarstvi, Vol 18, No 9, Nov 66, pp 406 - 414

Abstract: When chronic bronchitis is not treated, respiration insufficiency develops, which finally leads to cor pulmonale. The treatment should eliminate acute exacerbations which lead always to progressive disease. Treatment by suitable drugs is recommended; bronchodilators, mucolytics, and antibiotics are the best. The treatment should include respiration rehabilitation and aerosol inhalations. 1 Figure, 1 Table, 18 Western, 53 Czech, 3 Russian references. (Manuscript received 23 Mar 66).

1/1

NAVRATIL, M.; BENA, E.

Relation of residual volume to intrapulmonary exchange. Its use  
in functional diagnosis of emphysema. Cas. lek. cesk. 98 no.32-33:  
1031-1036 14 Aug 59.

1. Ustav hygieny prace a chorob z povolani v Praze, reditel prof.  
MUDr. J. Teisinger.

(RESPIRATION, funct. tests)

(PULMONARY EMPHYSEMA, diag.)

KEJSEK, Karel; NAVRATIL, Miroslav; GLUCKSMANN, Josef

On the problem of emphysema in persons playing wind instruments.  
Pracovní lek.12 no.2:64-67 Mr '60.

1. Klinika nemocí z povolání, přednosta prof.dr. J. Teisinger.  
Ústav hygieny práce a chorob z povolání v Praze, red.prof.dr.  
J. Teisinger. Zdravotnické středisko ND, ČUNZ, Praha 2.  
(PULMONARY EMPHYSEMA etiol.)  
(MUSIC)

NAVRATIL, Miroslav

Intrapulmonary mixing of gases. Pracovní. lek. 12: no.3:160-167  
Ap '60.

1. Ústav hygieny práce a chorob z povolání, Praha, reditel prof.  
J. Teisinger.  
(LUNGS physiol.)

HAVRATIL, M.

Recommendation on the criteria for disability and partial disability pensions in pneumoconiosis. Pracovní lek. 12 no.5:271-272 Je '60.

1. Ustav hygieny prace a chorob z povolani, Praha, reditel prof. MUDr. J. Teisinger.  
(PNEUMOCONIOSIS)  
(WORKMEN'S COMPENSATION)



5

Country: Czechoslovakia

Academic Degrees:

Affiliation: Institute of Labor Hygiene and Occupational Diseases (Ústřední ústav práce a zdraví), Prague. Rank: professor Dr. J. JUREŠEK

Source: Práce, Vnitřní lékařství, No 4, Apr 61, pp 371-377

Data: "Ventilatory Function in Patients Suffering from Cor Pulmonale, and its Relation to Heart Failure."

Co-authors:

JUREŠEK, Alois. Cardiopulmonary Section (Cardiopulmonální oddělení) of the No II Clinic of Internal Medicine (II. vnitřní klinika) of Charles University (Univerzita Karlova), Prague. Rank: professor Dr. J. JUREŠEK

BAUM, Severin. Cardiopulmonary Section of the No II Clinic of Internal Medicine of Charles University, Prague.

090 5014;

STAN 1/EPH/ENR... Page 1/2  
APPROVED FOR RELEASE

AUTHOR: Havratil, M. (Engineer, Doctor)

TITLE: Capacitive device for measuring radial play in combustion turbines

Handwritten notes: "27" and "am" next to the title, and "7/27" and "C 1/2" written vertically to the right.

SOURCE: Strojnický časopis, no. 5, 1964, 443-457

TOPIC TAGS: capacitive device measurement method, radial play, combustion chamber, rotor blade shaft, thermoelectric power plant, measurement accuracy

ABSTRACT: Test measurements of radial play were made on the type ST 675-1 combustion turbine by a capacitive measurement method developed at the Státní vyzkumný ústav tepelné techniky, Prague (State Research Institute for Heat Engineering). From the published literature, the first measurements of radial play on an engine of this type under actual operating conditions were made by the purely electrical method. The measurements made show that this seemingly delicate measurement method can be successfully used under rather difficult production conditions to obtain sufficiently accurate results. In the beginning of 1963, measurements of radial play were made on the ST 675-1 combustion turbine (produced by FB&K s.p. and installed in the Bratislava I thermoelectric power plant). The sensitivity, accuracy,

Card 1/2

L 26366-65

ACCESSION NR: AP4046765

2

and long-term stability of the described method (with a capacity micrometer) are considered satisfactory. The stability of the measuring line may be improved by periodic checking and automatic correction of the parameters of the electronic portion of the measuring device, which are of critical importance for its stability. The characteristics of the curves plotted from the measurements show the following: all measurements exhibit a similar character with regard to the changes of relative radial play at the point of measurement insofar as it is a question of an absolute scale. The relative measurement accuracy using the described capacitive probe is on the order of  $5 \pm 5\%$ . Thanks are expressed to the workers of FBZKD n.p. for their collaboration. Orig. art. has: 13 figures.

ASSOCIATION: ~~Státní výzkumný ústav tepelné techniky, Prague (State Research Institute for Heat Engineering)~~

SUBMITTED: 23Oct63

ENCL: 00

SUB CODE: PR, EC

NO REF SOV: 000

OTHER: 008

Card 2/2

RAYSEK, K.; NAVRATIL, M.; GLYUKSMAN, I. (Chekhoslovakiya)

Pulmonary emphysema in wind instrument players. Gig. truda i prof.  
zab. no.12:39-41 '61. (MIRA 14:12)

1. Klinika professional'nykh zabolevaniy, Institut gigiyeny truda  
i professional'nykh zabolevaniy, Meditsinskiy punkt Natsional'nogo  
teatra v Prage.

(EMPHYSEMA, PULMONARY)  
(MUSICIANS---DISEASES AND HYGIENE)

REJSEK, K.; NAVRATIL, M.

The problem of occupational emphysema. Acta univ. carol. [med.]  
Suppl. 14:243-248 '61.

1. Klinika nemoci z povolani fakulty vseobecneho lekarstvi University  
Karlovy Ustav hygieny prace a chorob z povolani prednosta prof.  
dr. J. Teisinger.  
(OCCUPATIONAL DISEASES) (PULMONARY EMPHYSEMA etiol)

NAVRATIL, Miroslav; KRECEK, Vaclav; CVACHOVA, Libuse

Effect of work in the coal mines on the pathogenesis of chronic bronchitis. Prac. lek. 16 no.7:297-304 S '64.

1. Ustav hygieny prace a chorob z povolani v Praze (reditel prof. dr. J. Teisinger, DrSc.).

NAVRAIL, Miroslav

Asbestosis, lung cancer and tuberculosis in workers in an asbestos processing factory. Prac. lek. 16 no.8:345-349 0 '64.

1. Ustav hygieny prace a chorob z povolani v Praze (reditel prof. dr. J. Teisinger, DrSc.).

NAVRATIL, Miroslav

Determination of the residual volume of the open circle in the light of observations on continuous analysis of nitrogen. I. Test of the original modification of 2 examinations. Cas.lek.cesk 100 no.51: 1598-1604 22 D '61.

1. Ustav hygieny prace a chorob s povolani v Praze, reditel prof. MUDr. J. Teisinger.

(NITROGEN metabolism) (RESPIRATION)



REJSEK, Karel; NAVRATIL, Miroslav

On the problem of pulmonary emphysema in glass blowers. Prac. lek. 14  
no.2:58-61 Mr '62.

1. Klinika nemoci z povolani FVL KU, prednosta prof. dr. J. Teisinger,  
Ustav hygieny prace a chorob z povolani, reditel prof. dr. J. Teisinger.

(PULMONARY EMPHYSEMA statist)  
(OCCUPATIONAL DISEASES statist)

NAVRATIL, Miroslav

The distribution of inspired air in the lung in silicosis. *Prac. lek.*  
*č. no. 2:67-70* Mr '62.

1. Ústav hygieny práce a chorob z povolání v Praze, reditel prof.  
MUDr. J. Teisinger.

(SILICOSIS physiol) (RESPIRATION physiol)

NAVRATIL, Miroslav

Determination of the residual volume with open circuit in the light of findings on continuous nitrogen analysis. II. The course of pulmonary clearance with the use of standard oxygen volumes. Cas. lek. cesk. 101 no.18:560-564 My '62.

1. Ustav hygieny prace a chorob z povolani v Praze, reditel prof.  
dr. J. Teisinger.  
(RESPIRATION physiol)

NAVRATIL, M.

Relations of ventilation and distribution of air in the lungs in chronic  
asthmoid bronchitis. Cas. lek. cesk. 101 no.45:1353-1357 9 N '62.

1. Ustav hygieny prace a chorob z povolani v Praze, reditel prof. dr.  
J. Teisinger, DrSc.  
(BRONCHITIS) (ASTHMA) (RESPIRATORY FUNCTION TESTS)

CZECHOSLOVAKIA

NAVRATIL, M.

Institute of Industrial Hygiene and Occupational Disease  
(Ústav hygieny práce a chorob z povolání), Prague

Brno, Vnitřní lékařství, No 6, 1963, pp 568-573

"Application of New Methods for Investigation of  
Respiratory Function."

NAVRATIL, M.; Institute of Hygiene of Work and Occupational Diseases at Prague, Manager Prof. doctor J. Teisinger, D.Sc. [Us-tav hygieny prace a chorob z povolani v Praze, reditel prof. dr. J. Teisinger, Dr.Sc.]

"Analysis of Discrepancies in Diagnoses of Silicosis based on Radiological and Functional Observations."

Prague, Pracovni Lekarstvi, Vol 15, No 8, 1963, pp 338-342

Abstract: 355 patients were examined during a period of 4 years. In 41 cases (11.5%) discrepancies between the X-ray pictures and the pulmonary function were found. The determination of the pulmonary function was based on the examination of ventilation as expressed by traced-out expiration of the vital capacity and by the spiogram. Further the total pulmonary capacity and the residual volume were determined, as well as the oxygen utilization and carbon dioxide elimination during a work load period. In 20 cases (49%) there was a discrepancy between the X-ray picture and the total respiratory function, 30 cases (73%) showed a discrepancy with ventilation. The same proportion was found comparing ventilation and total respiratory function. The following are the possible causes of the discrepancies: importance of em-  
1/2

L 62157-05 ENT(m)/ENA(d)/ENP(v)/EMP(k)/ENP(h)/ENP(l) Pf-A/Feb DIAAP

ACCESSION NR: AP5019911

CZ/0632/64/014/012/0937/0944

29  
28  
B

AUTHOR: Navratil, M. (Doctor, Engineer)

TITLE: Radiometric methods of measurement of clearances inside operating turbines

SOURCE: Strojirenstvi, v. 14, no. 12, 1964, 937-944

TOPIC TAGS: radioisotope, steam turbine, gas turbine engine, mechanic measuring tool

Abstract (Author's English summary, modified): Measurements of clearances between rotating and stationary parts of gas or steam turbines are rather difficult, especially if the changes taking place in operating machines are to be continuously recorded. Conventional mechanical, optical and electrical methods fail to provide accurate results and very often cannot be used. New methods recently developed are based on using radioactive isotopes. Some instruments measure the absorption or reflection of pencils of rays, and the other measures the position of the radiating source attached to the turbine rotor. The article deals with both groups, evaluates their specific features and compares their convenience in practical applications.

Orig. art. has 11 figures, 8 diagrams, and 32 formulas.

Card 1/2

L 62157-85

ACCESSION NR: AP5019911

ASSOCIATION: SVUTT, Prague

SUBMITTED: 00

ENCL: 00

SUB CODE: PR, NP

NO REP MOV: 000

OTHER: 011

JPRS

Card 2/2 *20P*



NAVRATIL, Miroslav

Contribution to a history of pulmonary function determination in patients with pneumoconiosis during the period 1945 to 1962. Prac. lek. 16 no.5:223-227 J1 '64.

1. Ustav hygieny prace a chorob z povolani v Praze (reditel prof. dr. J. Teisinger, DrSc.)

NAVRATIL, M.; KRALIKOVA, B.

Observations on an unusual skin disease in two children "knuckle pads". Cesk. pediat. 19 no.7:624-626 J1'64

1. Detska klinika lekarske fakulty PU [Palackeho university] v Olomouci, (zastup. prednosta: MUDr. L. Palikan, CSc.) a Dermatologicka klinika lekarske fakulty PU [Palackeho university] v Olomouci (prednosta: prof. dr. G. Lejhance).

NAVRATIL, Miroslav; WIDIMSKY, Jiri; KASALICKY, Jan; DEJDAR, Rudolf

Relation of respiratory and hemodynamic values in silicosis.  
Prac. lek. 16 no.10:437-443 D '64

1. Ustav hygieny prace a chorob z povolani v Praze (reditel prof. dr. J.Teisinger, DrSc) a Ustav pro choroby obehu krevniho v Praze (reditel prof. dr. J.Brod, DrSc.).

WIDIMSKY, J., (Praha-Krc, Budejovicka 800); KASALICKY, J.; NAVLEATHL, M.

Respiration in repeated pulmonary embolism. Cas. lek. Cesk.  
104, no.41:1129-1133 15 (1965).

1. Ustav pro choroby obehu krevniho, Praha-Krc (prednosta prof.  
dr. J. Brod, DrSc) a Ustav pro choroby z povolani, Praha (pred-  
nosta prof. dr. J. Teissinger, DrSc.). Submitted November 1964.

CZECHOSLOVAKIA UDC 616.24-003.65(:674.8)-057(677.022)

NAVRATIL, Miroslav; HAJICKOVA, Vera; BRUCKNER, Jaroslav; SEDIVEC, Jiri; Institute of Work Hygiene and of Occupational Diseases (Ustav Hygieny Prace a Chorob z Povolani), Prague, Director (Reditel) Dr J. TEISINGER; Okresni Station of Hygiene and Epidemiology (Hygienicko-Epidemiologicka Stanice), Liberec, Director (Reditel) Dr J. MARECEK; Department of Occupational Diseases, Okresni Institute of National Health (Odd. Chorob z Povolania OUNZ), Liberec, Head (Vedouci) Dr J. BRUCKNER.

"Problem of Byssinosis in Cotton Mill Workers."

Prague, Pracovni Lekarstvi, Vol 18, No 6 - 7, Aug 66, pp 247-253

Abstract [Authors' English summary modified]: Employees of 2 cotton mills who were exposed to cotton dust for more than 5 years were examined. Byssinosis was found only exceptionally; in one mill chronic bronchitis was found in 29.5% of the employees, in the other in 23.5%. The usual bacteria and mycotic flora were found in the patients. Skin tests with allergens were made; some dust reactions were observed. 6 Figures, 3 Tables, 14 Western, 7 Czech, 1 Russian reference. (Manuscript received 20 Dec 65).  
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posed to asbestos dust should be kept under observation after they stopped working in dangerous surroundings and do not suffer from asbestosis. 11 Figures, 3 Tables, 4 Western, 11 Czech references. (Ms. rec. 20 Dec 65).  
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- 20 -

CIA-RDP86-00513R0011

CZECHOSLOVAKIA

UDC 616-092-092.4/.6

NAVRATIL, M.; Institute of Work Hygiene and Occupational Diseases (Ustav Hygieny Prace a Chorob z Povolani), Prague, Director (Reditel) Prof Dr J. TEISINGER.

"Model Experiments in Pathophysiology. I. Brief Review of Models and Analogues Used in Pathophysiology."

Prague, Casopis Lekarů Ceských, Vol 105, No 27-28, 4 Jul 66, pp 731 - 733

Abstract [Author's English summary modified]: Several types of models used in pathophysiology are described. The usual models are animal experiments; recently mechanical and electrical models based on theoretical calculations have been used. The model systems reveal the core of the investigated process, but the function of the corresponding system in the macroorganism acting under the influence of adaptive and regulatory processes is not illustrated. Analogues represent a certain foreseen function which is compared to an investigated system of organism; usually differences in the two results are found. No references.

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CZECHOSLOVAKIA

UDC 616.24-008.47:616 .24-008.4-07

NAVRAJIL, M.; Institute of Work Hygiene and Professional Diseases  
(Ustav Hygieny Prace a Chorob z Povolani), Prague, Director (Re-  
ditel) Prof Dr J. TEISINGER.

"Dyspnea as Manifested in Examinations of Pulmonary Ventilation  
and Distribution."

Prague, Casopis Lekarů Ceskych, Vol 105, No 35, 2 Sep 66, pp  
937 - 941

Abstract [Author's English summary modified]: Manifestation of  
dyspnea is due to patient's efforts to increase an inadequate  
supply of oxygen, and to discharge carbon dioxide. Increase of  
the volume is achieved more easily by increasing the rate of re-  
spiration than by maintaining the rate and increasing the intake  
of each breathing cycle. In pulmonary causes of dyspnea obstructive  
and restrictive disorders are involved. In disorders of distribu-  
tion uneven ventilation in various areas of the lungs occurs.  
The importance of performing all the tests necessary for the cor-  
rect diagnosis of the disorder is stressed. 8 Figures, 5 West-  
ern, 2 Czech references. (Manuscript received Mar 1966).  
1/1

NAVŘÁTIL, O.

7 4  
NAV (NA)

The determination of susceptibility of complex compounds in solutions. M. Šimek and O. Navřátíl (Přirodovědecká fak. Brno, Czech.). *Collection Czechoslov. Chem. Commun.* 25, 2748-50 (1960) (in German).—The calibration of a simple magnetochem. app. and a method for detg. the susceptibility of metal complexes in solns., even in the presence of excess reagent, are described. With the assumption that the soln. behaves ideally, a relation is derived for calcg. the susceptibility of a component of a soln. Only 2 measurements are needed: one of the soln. to be analyzed and one of the comparison soln. The method is especially suitable for detg. the magnetic moment of a metal complex that cannot be isolated from soln. R. Erdős

\*[at the Masaryk University]

44863

S/081/62/000/024/026/073  
B117/B186

5.1110  
AUTHORS: Navrátil, O., Kolařík, Z.

TITLE: Extraction of strontium and yttrium complexes with picrolonic acid by organic solvents

PERIODICAL: Reformativnyy zhurnal. Khimiya, no. 24, 1962, 171-172, abstract 24V61 (Collect. Czechosl. Chem. Commun, v. 26, no. 12, 1961, 3009-3019 [Ger.; summary in Russ.])

TEXT: A study was made of the distribution of the indicator amounts of  $Sr^{90}$  and  $Y^{90}$  between the aqueous phase (with variable  $H^+$  - and  $Na^+$  ion content) and the picrolonic acid solution (HR) of different concentration in methyl cyclohexane, covering also the extraction of HR under these conditions. With increasing pH the distribution coefficient ( $\alpha$ ) of the HR between the organic and the aqueous phase decreases owing to the increasing degree of dissociation of the HR in the aqueous phase. The ion exchange confirmed that HR and NaR are virtually completely dissociated at pH 4,75. Both compounds pass completely into the organic phase in molecular form. As the pH of the aqueous phase and the HR concentration in the  
Card 1/2



S/081/62/000/024/026/073  
 B117/B186

Extraction of strontium...

organic phase increases, and as the  $\text{Na}^+$  concentration in the aqueous phase decreases, the transfer of  $\text{Sr}^{2+}$  and  $\text{Y}^{3+}$  into the organic phase by extraction increases. The following homogeneous and heterogeneous equilibria were studied and the corresponding equilibrium constants were determined by extraction test and pH measurements at  $\mu = 0.03$  and 25:  $\text{HR} \rightleftharpoons \text{H}^+ + \text{R}^-$  ( $\log K$

$= -1.33$ );  $\text{HR} \rightleftharpoons \text{HR}_{\text{org}}$  (2.88);  $\text{Na}^+ + \text{R}^- \rightleftharpoons \text{NaR}_{\text{org}}$  (1.99);  $\text{Sr}^{2+} + \text{R}^- \rightleftharpoons \text{SrR}^+$  (2.35);

$\text{SrR}^+ + \text{R}^- \rightleftharpoons \text{SrR}_2$  (2.35);  $\text{SrR}_2 + \text{NaR}_{\text{org}} \rightleftharpoons \text{SrR}_2 \cdot \text{NaR}_{\text{org}}$  (4.6);  $\text{SrR}_2 + \text{HR}_{\text{org}} \rightleftharpoons$

$\text{SrR}_2 \cdot \text{HR}_{\text{org}}$  (2.8);  $\text{Y}^{3+} + \text{R}^- \rightleftharpoons \text{YR}^{2+}$  (3.95);  $\text{YR}^{2+} + \text{R}^- \rightleftharpoons \text{YR}_2^+$  (3.60);  $\text{YR}_2^+$

$+ \text{R}^- \rightleftharpoons \text{YR}_3$  (3.25);  $\text{YR}_3 + \text{HR}_{\text{org}} \rightleftharpoons \text{YR}_3 \cdot \text{HR}_{\text{org}}$  (4.5) and  $\text{YR}_3 + \text{NaR}_{\text{org}} \rightleftharpoons$

$\text{YR}_3 \cdot \text{NaR}_{\text{org}}$  (4.5). The stability constants of picrolonate complexes of

$\text{Sr}^{2+}$   $\text{Y}^{3+}$  were calculated by the modified "two-parameter method" of Dirssen - Sillen (RZhKhim, 1956, no. 1, 642). For both elements ideal extraction and reextraction conditions were obtained. [Abstracter's note: Complete trans-ation.]

Card 2/2

*E*

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J. E. Purkyně)TITLE: Azodyes<sup>b</sup> in analytical chemistry

SOURCE: Chemicks listy, no. 4, 1966, 451-469

TOPIC TAGS: dye chemical, organic azo compound, analytic chemistry, chelate  
compound, chemical indicator

ABSTRACT: Azodyes used in analytical chemistry are discussed. The advantages of dyes having two donor groups are described. Chelatometric indicators based on azodyes are discussed. For visual indication their advantages consist of sharp changes in coloring, and small amounts of indicators being required. Selectivity, which is generally limited, may be improved by modifications of the dye composition. Isocyclic dyes, heterocyclic dyes, pyridyl azo dyes, thiazolyl azodyes, are described, and their applications discussed. Orig. art. has: 4 tables.  
[JPRS: 36,464]

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