

POLAND/Zooparasitology - Parasitic Worms.

3

Abs Jour : Ref Zhur Biol. No 1, 1959, 943

Author : Michajlow Wlozimierz

Year : -

Title : Origin of Complex Cycles in the Development of the Tape-
worm

Orig Pub : Kosmos (Polska), 1957, A6, No 4, 337-360

Abstract : This is a discussion between supporters, who maintain that the final host has priority and the intermediate host is secondary (Loos, Mordvilko, Yanitskiy, Mikhaylov, etc), and supporters of the reverse theory (Leckart, Shinkovich). Literary data are given on the origin of the cycles of development and the change of host in the cestodea. One of the older groups of cestodea is the Pseudophyllidea, originally parasitic in fish and linked by its development to water invertebrates. With the migration of vertebrates to dry land some of the

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POLAND/Zooparasitology - Parasitic Worms.

G

Abs Jour : Ref Zhur Biol., No 1, 1959, 943

Pseudophyllidea become intestinal parasites of fish-eating mammals, preserving, however, the water stages of development in arthropods and fish. The problem of dry land hosts can be significantly complicated, due to the inclusion of supplementary and facultative hosts as well as to the elimination of intermediate and final hosts. Thus, for example, Archigetes is a neotenia larva which multiplies in its ancient intermediate host - the taenid worm - and which has lost its terminal host (apparently, a vertebrate), in the Caryophyllaea and Ampylina the second intermediate host becomes the final, while the original final died out. The rudimentary tail appendage of the proceroid of the Pseudophyllidea, supplied by embryonic hooks of the cercomere, is a homolog of the attached disc of the ectoparasitic trematode and confirms the general derivation of the Pseudophyllidea and Monogenea. In the formation of tapeworms

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POLAND/General Biology - Evolution.

B

Abs Jour : Ref Znan Biol., No 6, 1959, 23710

Author : Mechajlow, Wlodzimierz

Inst : -

Title : On The Struggle for Survival in Endoparasites.

Orig Pub : Kosmos (Polska), 1957, A6, No 5, 477-492

Abstract : It is hardly doubtful that, among endoparasites, there is a struggle for survival which has an evolutionary significance; however, the forms of this struggle are peculiar and varied; furthermore, they are subjected to changes in the process of the ontogenesis of parasites. One of the most important devices for the preservation of a species is the great fertility of endoparasites; in those which in the form of young forms live outside of the host body mass, the (in most cases accidental), perishing of separate individuals is compensated for by this fertility; furthermore, an important

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Abs Jour : Ref Zhur Biol., No 6, 1959, 23710

furthermore, monovariied populations show relationships between the individuals which have no antagonistic character. The dependence between the populations of various species in one and the same parasite-carrier may have a very different character, beginning with antagonistic and even mutually-excluding to synergic. The preservation of the species in endoparasites and its further evolution thus depend on complex combinations of a variety of factors. -- A.P. Prendel'

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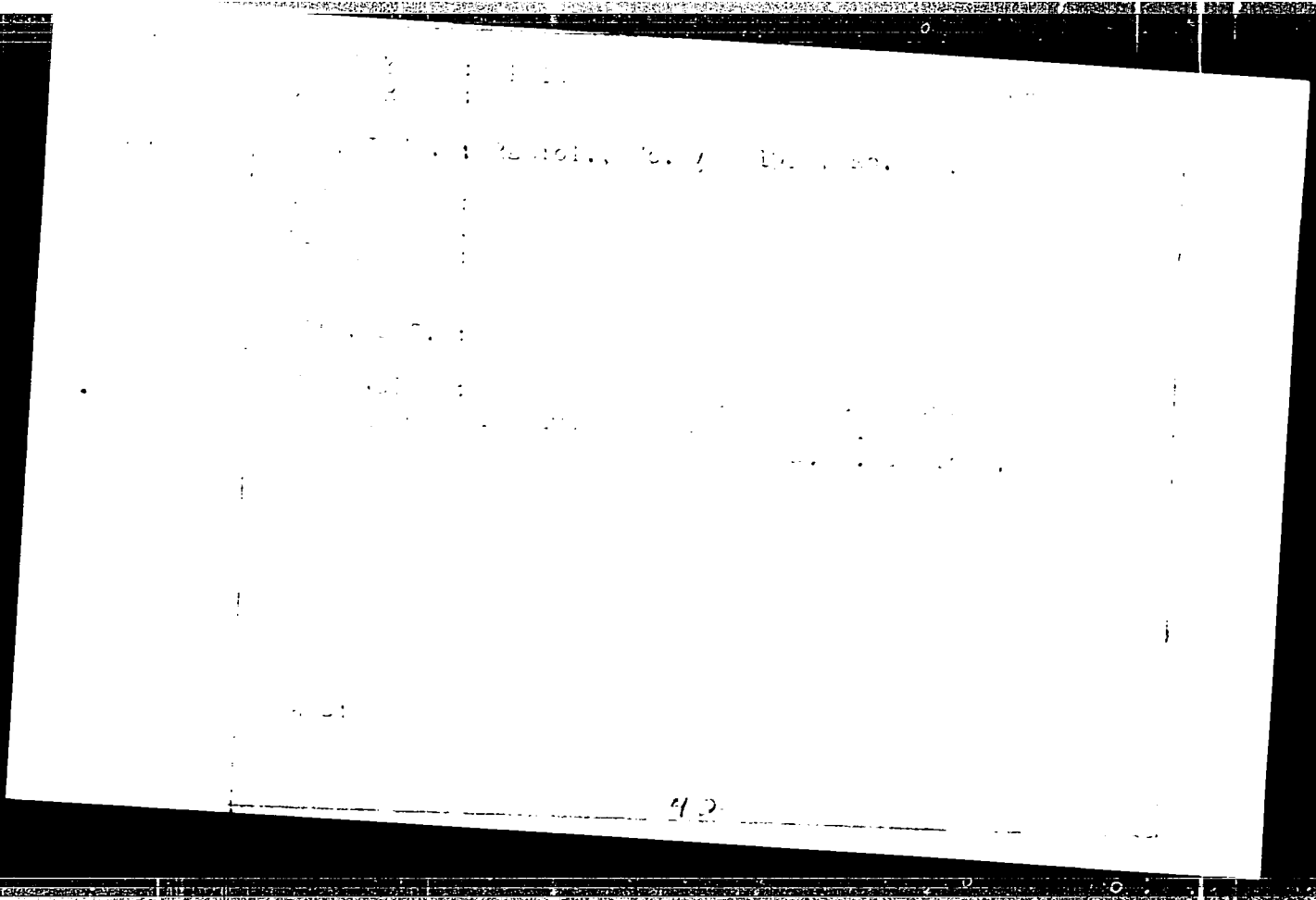
COUNTRY : Poland
 CATEGORY : General Biology - Evolution
 ABST. SOUR. : RZBiol., No. 1, 1950, No. 3, 4
 AUTHOR : ~~Michał Janowski~~
 INST. :
 INFL. : Progress of Science

ORIG. PUB. : Kosmos (Warszawa), 1977, No. 6, 195-197

ABSTRACT : It is shown that the concept of progressive development is based only on the basis of the theory of evolution. A critique is presented of the various terminological and biological definitions of this concept, which are based upon comparison of different forms with each other. Adaptation of different forms to conditions of life may also serve as a criterion of progress, since, in so doing, there are encountered unavoidable difficulties in the comparison of different groups. It is more correct to interpret progress as the capability of adaptation to a change in conditions of life (in this connection an analysis is made of the concept of apomorphosis, of

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17716/1/16/36 EXCERPTA MEDICA Sec 5 Vol. 11/8 Gen. Pathology Aug 58

1818. THE INCIDENCE OF MALIGNANT TUMOURS AND THE FIGHT AGAINST CANCER IN THE PEOPLE'S REPUBLIC OF BULGARIA - Die Verbreitung bösartiger Geschwülste und ihre Bekämpfung in der Volksrepublik Bulgarien - Michailow W. and Walkow W. Onkol. Forsch. Inst., Sofia - DTSC. GESUNDHWES. 1957, 12/51-52 (1587-1590) Tables 5

In Bulgaria the organized fight against cancer was started in 1950. From Jan. 1952 there has been a compulsory registration of all cases of malignant tumour. In 1952 there were detected 4,072 malignant tumours in 100,000 inhabitants, in 1956, 9,500 cases; the population of Bulgaria is 7.6 million. Mortality from cancer was 17.8% in 1953 and 20.5% in 1956. Out of 100 cancer cases in the various localizations the percentages of deaths were: for cancer of the lung (in 1953 and 1956) 38.2 and 50.6, for cancer of the stomach 34.8 and 43.4, skin 3.7 and 4.0, oesophagus 44.0 and 39.3, rectum 20.3 and 30.8. Starting from 1956 a prophylactic examination of workers in some industrial plants and of all women over 30 will be performed.

Körbler - Zagreb (V, 16, 17)

WLODZIMIERZ MICHAJLOW

Contribution of parasitology to the progress of evolutionary concepts.
Wiadomosci parazyt., Warsz. 4 no.1:3-17 1958.

1. Z Zakladu Parazytologii PAN w Warszawie.

(PARASITOLOGY

contribution to evolutionary concepts (Pol))

(EVOLUTION

concepts, contribution of parasitol. (Pol))

MICHAJLOW, Włodzimierz

Present state and trends in parasitological investigations in Poland.
Wiadomości parazyt. Warsz. 4 no.4:297-307 1958.

1. Z Zakładu Parazytologii Polskiej Akademii Nauk w Warszawie.
(PARASITOLOGY,
in Poland (Pol))

MICHAJLOW, Włodzimierz

Resistance of host and endoparasites and parasitological groups of
hosts versus types of host-parasite systems. Wiadomości parazyt., Warsz.
4 no.5-6:613-614; Engl. transl. 615-616 1958.

1. Z Zakładu Parazytologii PAN w Warszawie.

(PARASITIC DISEASES, physiol.

resist. of host & Endoparasites & parasitol. groups of
hosts versus host-parasite systems (Pol))

MICHAJLOW, W.

SCIENCE

Periodicals: KOSMOS. SERIA A: BIOLOGIA. Vol. 7, No. 4, 1958.

MICHAJLOW, W. Parasitology and the theory of species. p. 385.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1959,
Unclass.

MICHAJLOW, W.

SCIENCE

Periodicals: KOSMOS. SERIA A: BIOLOGIA. Vol. 7, no. 4, 1958.

MICHAJLOW, W. A few remarks on the problem of international scientific cooperation. p. 415.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4,
April 1959, Unclass.

MICHAJLOW, W.

SCIENCE

Periodicals: KOSMOS. SERIA A: BIOLOGIA. Vol. 7, no. 6, 1958.

MICHAJLOW, W. Remarks on the science of nature conservation, its theoretical basis and methodology. p. 533.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4,
April 1959, Unclass.

MICHAJLOW, Włodzimierz

Evolutional problems in parasitology. Wiadomości parazyt., Warsz.
5 no.4-5:427-440 Also 407-427 1959.
(EVOLUTION) (PARASITOLOGY)

MICHAJLOW, Wlodzimierz

On the cooperation of Polish and Soviet scientists in the
field of research on regeneration. Zesz probl nauki pol
no.18:9-11 pt.2 '59.

P/049/62/000/006/001/001
D204/D307

AUTHOR:

Michajlow, Włodzimierz

TITLE:

Some remarks on the future of biological sciences

PERIODICAL:

Kosmos, no. 6, 1961, 603-610

TEXT:

A prognosis is attempted regarding the future of scientific progress within the next 15 - 20 years, concentrating on the life sciences as the model, since these disciplines are believed to be potentially the leading ones. The approach adopted is the consideration of (a) the internal changes in science, determining progress, and (b) the sociological conditions permitting and stimulating this progress. (a) The most important recent changes are thought to be the appearance of new hybrid sciences such as biochemistry, biophysics, cybernetics and others. Great expansion of molecular biology is anticipated. The discovery of the function of nucleic acids, study of the template mechanism of heredity, synthesis of biologically important substances, study of photosynthesis, space biology, and the possibility of extraterrestrial

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P/049/62/000/006/001/001
D204/D307

Some remarks on the future ...

life are mentioned briefly as illustrations of achievements and aims. Under (b), the following sociological factors are discussed: (1) population pressure, requiring an improvement in the production of food and possibly a completely new approach to this latter problem, (2) population control, (3) extension of life and improvement of human stock, (4) elimination of the harmful effects on human health of changes in the environment consequent upon the rapid expansion of technology, and (5) the personal interest of researchers inherent in the problems of the origin and nature of life, ageing, death, and the origin of man. A need for a planned program based on a broad discussion of the factors involved is underlined.

Card 2/2

MICHAJLOW, W.

Biological problems of "parasite-host" relations. Wiadomosci
parazyt., 7 no. 4/6:695-707 '61.

1. Department of Parasitology, Polish Academy of Sciences, Warsaw.
(PARASITIC DISEASES)

MICHAJLOW, Wlodzimierz

Polish zoological parasitology during the period 1958-1961.
Wiadomosci parazyt., 7 no. 4/6:725-744 '61.

1. Department of Parasitology, Polish Academy of Sciences, Warsaw.
(PARASITIC DISEASES veterinary)

MICHAJLOW, Włodzimierz

Some methodological problems of evolutionary parasitology. Kosmos
biol 10 no.5:463-473 '61.

1. Redaktor dwumiesięcznika "Kosmos", Seria A: Biologia, Warszawa.

(Parasites)

MICHAJLOW, Wlodzimierz

Seventh Convention of the Polish Parasitological Society. Kosmos
biol 10 no.6:623-635 '61.

1. Redaktor dwumiesięcznika "Kosmos", Seria A: Biologia.

(Poland--Parasites)

MICHAILOW, W.

Organization and results of cancer control in Bulgaria. Neoplasma 9
no.3:227-233 '62.

1. Onkologisches Forschungsinstitut, Sofia, Bulgarien.
(NEOPLASMS prev & control)

MICHAJLOW, Włodzimierz

Species of the genus *Triaenophorus* (Cestoda) and their hosts in various geographical regions. *Acta parasit Pol* 10 no.1/11:1-38 '62.

1. Zakład Parazytologii, Polska Akademia Nauk, Warszawa, Pasteura 3.

MICHAJLOW, Włodzimierz

Methodological problems of the modern biology. Kosmos biol 11
no.1&35-52 '62.

MICHAJLOW, Włodzimierz; STEFANSKI, Witold; SKOWRON, Stanisław

Professor Teodor Marchlewski, July 12, 1899 - January 27, 1962.
Kosmos biol 11 no.3:259-264 '62.

1. Ministerstwo Szkolnictwa Wysszego i Ministerstwo Rolnictwa,
Warszawa (for Michajlow). 2. Prezydium Polskiej Akademii Nauk,
Polska Akademia Nauk, Krakow i Wydział Nauk Biologicznych PAN,
Krakow (for Stefanski).

MICHAJLOW, Wlodzimierz

The Parasitological Institute of the Polish Academy of Sciences.
Kosmos biol 11 no.3:358-363 '62.

MICHAJLOW, Włodzimierz

On the proper place of biology in the curricula of the study
of medicine. Kosmos biol 11 no.4:407-412 '62.

*

MICHAJLOW, Wlodzimierz

Some remarks on the future of the biological sciences. Kosmos biol
11 no.6:603-610 '62.

MICHAJLOW, Wlodzimierz, prof. dr

Some problems of evolution in the light of data on parasitology.
Problemy 19 no.2:85-93 '63.

1. Członek korespondent Polskiej Akademii Nauk, kierownik Zakładu
Parazytologii, Polskiej Akademii Nauk, Warszawa.

MICHAJLOW, Włodzimierz (Warszawa)

Origin of parasitism. Wszechswiat no.4:81-86 Ap '63.

MICHAJLOW, Wlodzimierz (Warszawa)

~~Evolution mechanism of parasites.~~ Wszechswiat no.5:113-115 My '63.

MICHAJLOW, Włodzimierz

Notes on methods on investigating the parasitic fauna of
Poland. Wiad. parazyt. 2 no.4:295-305 '63.

1. Zakład Parazytologii PAN, Warszawa.
(PARASITES)

GRABIEC, S; GUTTOWA, A; MICHAJLOW, W.

Structure of the ciliated envelope of the Coracidium of
Diphyllbothrium latum (L) (Cestoda, Pseudophyllidae).
Bul Ac Pol biol 11 no.6:293-294 '63.

1. Institute of Parasitology, Polish Academy of Sciences,
Warsaw. Presented by W. Michajlow.

MICHAJLOW, W.

Results of experimental infecting Copepoda from Hausensee
(Switzerland) with larvae of *Diphyllbothrium latum* (L.)
(Gastona). Bul Ac Pol biol 11 no.7:347-351 '63.

1. Institute of Parasitology, Polish Academy of Sciences, Warsaw.

GRABIEC, Stanislaw; GUTTOWA, Alicja; MICHAJLOW, Wlodzimierz.

Effect of light stimulus on hatching of coracidia of
Diphyllbothrium latum (L). Acta parasit Pol 11
no.14/18 229-238 '63.

1. Zaklad Parazytologii, Polska Akademia Nauk, Warszawa.

MICHAJLOW, Włodzimierz

Problems of ancestral and ontogenetic features and the theory of
philembryogenesis in the world of parasites. Kosmos biol 12 no.5:
449-459 63.

GRABINS, Stanislaw; GUTTERA, Alina; JAKUBOWICZ, Konstantin; MISHAJLOW,
Wladimir.

Preliminary studies on the transformations of high energy com-
pounds in the ctenophore, *Eridophorus nodulosus* (Fall.)
(Ctenophora) and in the first intermediate hosts (Copepoda). *diad.*
parazyt. 10 no.4:277-279 '64

1. Zaklad Parazytologii Polskiej Akademii Nauk, Warszawa.

GUTTOWA, Alicja; MICHAJLOW, Włodzimierz

Experimental infection of Corepoda from Tbilisi with the larvae of *Trienophorus nodulosus* (Pall., from Masurian lakes (Poland). *Acta parasit Pol* 12 no.19:195-199 '64.

1. Institute of Parasitology of the Polish Academy of Sciences, Warsaw.

MICHAJLOW, Włodzimierz

Astasia norvegica sp.n. (Flagellata), parasite of some species of Cyclopoida (Copepoda) in Norway. Acta parasit Pol 12 no.30/39:339-355 '64.

1. Institute of Parasitology of the Polish Academy of Sciences, Warsaw.

GUTTOWA, Alicja; MICHAJLOW, Wlodzimierz

Experimental infection of Copepoda from water bodies in Hanoi (Vietnam) with the larvae of *Triclaenophorus nodulosus* (Cestoda) from the Masurian Lakes (Poland). Acta parasit Pol 12 no.30/39: 357-362 '64.

1. Institute of Parasitology of the Polish Academy of Sciences, Warsaw.

MICHAJLOW, Wlodzimierz

Review of scientific advances in Polish parasitology during
1961-1964. Wlad. parazyt. 11 no.1:22-46 '65.

1. Zaklad Parazytologii Polskiej Akademii Nauk, Warszawa.

MICHAJLOW, Włodzimierz

Comparative studies on the developmental cycles of some species
from the genus *Astasia* (Euglenoidina parasitica). Wlad. parazyt.
11 no.1:227-236 '65.

1. Zakład Parazytologii Polskiej Akademii Nauk, Warszawa.

MICHAJLOW, W.

Astasia ovorum n. sp. (Euglenoidina) -- parasite of copepod eggs from the Environ of Tihany (Hungary). Bull. acad. Pol. sci. [Biol.] 13 no.1:29-31 '65.

Anisonema parasiticum n. sp. (Euglenoidina, Anisonemidae) -- parasite of copepod eggs in the small Balaton Lake (Hungary). Ibid.:33-36.

1. Submitted on October 9, 1964.

MUCHAŁOW, Włodzimierz

Certain problems of evolution and ecology of the helminthology
of fish and amphibians. Kosmos biol 14 no.1:45-50, 1976.

MICHAJLOW, W.

Nauplicola venans g.n., sp.n. and *Nauplicola (Dunckeri)* sp.n.
(Euglenoidinae) -- parasites of copepod larval forms. *Trav.*
acad. Pol. sci. [Biol.] 13 no.4:235-242 1965.

1. Submitted January 20, 1965.

POLAND

MICHAJLOW, Włodzimierz, Prof. Dr.

Head, Dept. of Parasitology, Polish Academy of Sciences (Zakład Parazytologii PAN), Warsaw

Warsaw, Acta parasitologica polonica, Fasc. 30, Sept 1965, pp 313-320

"Cyclopidae (Copepoda) as hosts of parasitic Euglenoidina."

MICHAJLUK, Leon

On the synthetic and natural humin acids, their structure and chemical properties. Pt.1. General observations. Organic substances of plant and animal origin as basical for the structure of humin acids. Prace nauk roln i lesn 11 no.1:89-139 '62.

MARCIŃK, Jerzy; MICHAŁ, Leon

Studies on the chemical composition of the organic matter and
mineral compounds of peat soils. Prace naukowe Instytutu Chemii.
283-303 '64.

1. Department of Soil Science, Institute of Agriculture, Warsaw.

L 34447-66 T JK

ACC NR: AP6026207

(A)

SOURCE CODE: PO/0071/65/000/009/0517/0520

AUTHOR: Bubien, Zenon--Buben', Z. (Wroclaw); Wartenberg, Lech--Vartenberg, L. ²³
 ORG: Section of Toxicology/headed by Docent, Doctor Michal Bohosiewicz, Department
 of Pharmacology/headed by Docent, Doctor Tadeusz Garbulinski, Veterinary Faculty,
 WSR, Wroclaw (Zaklad Toksykologii, Katedra Farmakologii Wyzd. Wet. WSR); Department
 of Hygiene of Animal Products/headed by Professor, Doctor Leslaw Ogielski, Veterinary
 Faculty, College of Agriculture, Wroclaw (Katedra Higieny Produktow Zwierzecych
 Wydzialu Weterynaryjnego Wyzszej Szkoły Rolniczej)

TITLE: Toxicity of stale fish oils

SOURCE: Medycyna weterynaryjna, no. 9, 1965, 517-520

TOPIC TAGS: toxicity, food, vitamin, processed animal product

ABSTRACT: Basing themselves on archival materials of the Toxicity Institute, Chair
 of Pharmacology, Veterinary Faculty, College of Agriculture, Wroclaw, the authors
 made causal analysis and description of several cases of intoxication with stale
 fish oils. The intoxications particularly affected young animals, mainly silver
 fox, minks, pigs and chickens. Morbidities, and often deaths, were usually caused
 by serving stale fish oils. Stale fish oils administered for a longer period of
 time in excessive doses appeared to be particularly dangerous. In the sick animals
 the symptoms were observed mainly in the alimentary canal, and dissection revealed
 degeneration changes of liver, more rarely of other parenchymatous organs. In the
 further part of this work there is described the method of sampling fish oils for
 laboratory examinations. Orig. art. has: 1 table. [Based on authors' Eng. abst.]
 [JPRS: 33,500]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 010 / OTM REF: 006

Card 11

09/6

1755

MICHAL, E.

Plan for protection of the Vltava basin between Prague and
Slapy. p. 137.
OCHRANA PŘÍRODY. (Ministerstvo kultury. Státní recepce
ochrany přírody) Praha.
Vol. 11, no. 5, June 1956.

SOURCE: EFAL - LC Vol. 4 No. 10 Oct. 1956

S/169/62/000/005/008/093
D228/D307

AUTHOR: Michal, Emanuel

TITLE: The question of a single graphic designation of seismic quantities on maps

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 18, no-
abstract 5A126 (Geofys. sb., no. 126-145, 1960 (1961),
401-418)

TEXT: The absence of standardization for the signs of seismic quantities and types of maps gives rise to difficulties in the comparison and the study of different seismic data. The author suggests a simple graphic method of depicting the local intensity on seismic maps by means of symbolic signs. / Abstracter's note: Complete translation. /

Card 1/1

MICHAL, Frantisek V., Doc. Dr.

Eye tiredness. Cesk. opht. 10 no.6:362-367 Dec 54.

1. Z Ustavu pro doskolovani lekaru - očni oddeleni nemocnice na
Bulovce - prednosta doc. Dr. F.V.Michal
(EYE, diseases
tiredness)

MICHAL, F. Doc.MUDr; DOMBRADY, L. MUDr

Epithesis in extensive facial defects. Cesk.stomat. no.4-5:
160-165 J1 '55.

1. Predn. ochniho oddel. nemocnice na Bulovce, (for Michal). 2.
Z II stomatologicke kliniky KU v Praze, predn. prof. dr. F.
New irt. Ing. arch. V. Sedivy (for Dombrady)
(FACE, surgery.
plastic)

MICHAL, Frantisek, V.

Visual disorders caused by neon light. Cas. lek. cesk. 94 no.32:
873-876 29 July 55.

1. Z očního oddělení nemocnice na Bulovce, klinické sadladny
Ústavu pro doskolování lékařů. Prednosta doc. Dr. F. V. Michal.
(ILLUMINATION
fluorescent, causing vision disord.)
(VISION
disord. caused by fluorescent illumination.)

HAJ, P.V., Doc. Mdr.

~~PROGRESS OF OPHTHALMOLOGY~~
Progress of ophthalmology in Czechoslovakia. Cesk. zdravot. 6 no.5:
205-212 May 58.

1. vedouci katedry očního lékařství Ústavu pro doskolování lékařů.
(OPHTHALMOLOGY
in Czech., progr. (Cz))

MICHAL, Frantisek, V.

The problem of accommodation, its examination and evaluation of results in work with fluorescent light. Cesk. ofth 14 no.2:108-116 Apr 58.

1. Očni oddeleni nemocnice na Bulovec, klinika základna Ústavu pro oskolovani lekaru, prednosta doc. Dr. F. V. Michal.

(ACCOMMODATION, OCULAR, physiology
exper. studies (Cz))

MICHAL, F.V., Doc. Dr.

Modern role of ophthalmology in industrial health care. Pracovní lek.
11 no.1-2:108-109 Feb 59.

1. Vedoucí katedry oftalmologie Ústavu pro doskolování lékařů.
(INDUSTRIAL HYGIENE,
ophthalmol. serv. (Cz))
(OPHTHALMOLOGY,
in indust. hyg. (Cz))

ZELENY, A.;MICHAL, F.

Certain parameters of central irritability during physical work.
Cesk. fysiolo. 9 no.1:71-72 Ja 60.

1. Fysiologicky ustav lek. fak. KU, Plzen.
(EXERTION)
(CENTRAL NERVOUS SYSTEM physiolo.)

MICHAL, F.V.

On the experiences with glass implants after bulbar enucleation.
Cas. lek. česk. 99 no.28:870-874 8 JI '60.

1. Oční oddělení nemocnice na Bulovce, klinické základny Ústavu
pro doskolování lékařů v Praze, přednosta doc. dr. F.V. Michal.
(EYE ARTIFICIAL)

MICHAL, F.V., doc., dr.

Light and eye hygiene. Energetika Cz 11 nc.12:622-624 D
'61.

*

MICHAL, F. V.; NEBUDOVA, J.

On the problem of uveomeningitis. Cesk. ofth. 17 no.4/5:299-301 J1 '61.

1. Oční oddělení nemocnice na Bulovce, klinická základna Ústavu pro
dokolování lékařů, přednáška doc. dr. F. V. Michal Neurologická
klinika hygienické a epidemiologické fakulty, Praha 10-Vinohrady,
přednáška doc. dr. Z. Macek.

(UVEA diseases) (MENINGITIS case reports)

MICHAL, F. V.; ONDRACEK, J.

On changes in the amplitude of b waves in circulatory disorders in the venous vascular system of the retina. Cesk. ofth. 17 no.4/5:340-345 J1 '61.

1. Očni oddeleni nemocnice na Bulovce, klinická základna Ústavu pro doskolování lékařů v Praze, přednosta doc. dr. F. V. Michal.

(RETINA blood supply)
(ELECTRORETINOGRAPHY physiol)

MICHAL, F.V.

Studies on new and suitable types of occupations for the blind.
Cesk. oftal. 18 no.2:150-160 Mr '62.

1. Očni oddeleni nemocnice na Bulovce, klinicka zakladna Ustavu
pro doskolovani lekársku v Praze, prednosta doc. MUDr. F.V.Michal.
(BLIND rehabil) (OCCUPATIONS AND PROFESSIONS)

MICHAL, F.V.

Introduction to the discussion on the article "Definition
of blindness". Gest. oftal. 20 no. 2:146-147 Mr 1974.

*

SYNEK, V.; MICHAL, F.

Importance of the EEG in the diagnosis of puerperal venous cerebral obstructions. Plzen. lek. sborn. 24:103-108 '64

1. Neurologická klinika University Karlovy v Plzni (prednostka: Doc. dr. E. Klímková-Deutschová, CSc.).

MICHAEL, F.V.

on benefits issue. Mr. [redacted] [redacted]

1. Odm. oddelení nemocnice na Křivčanech, kde se nachází
Ústav dětského lékařství v rámci přednášky z 1. 12. 1978
V. Michal.

MICHAL, Igor, inz.

Possibility of growing trees at the Krivan Forest Enterprize
in the light of typological research. Les cas 9 no.8:705-726
Ag '63.

1. Ustav pre hospodarsku upravu lesov, Zvolen.

MICHAL, Igor, inz.

Structure and increment of natural stands on the Polana Massif
depend on the forest type groups. Les cas 11 no.2:127-148 F '65.

1. Institute of Economic Development of Forest, Zvoler. Submitted
March 30, 1966.

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
CA The volumetric estimation of calcium and magnesium (1) J. Proke and J. Michal. <i>Collection Czechoslov. Chem. Commun.</i> 10:30-31(1938).—Fox (C. A. 9, 3942) proposed a method for detg. Ca and Mg which pptd the Ca as CaC_2O_4 and the Mg as $\text{MgNH}_4\text{AsO}_4 \cdot 6\text{H}_2\text{O}$ in the presence of one another. The well-washed ppt. was dissolved in dil. H_2SO_4 and the oxalic acid titrated with KMnO_4, after which the arsenic acid was titrated iodometrically. With slight modification, the method has proved better than F^+ claimed. It is recommended to dissolve 0.15 to 0.2 g of sample in 3 ml. of dil. HCl, add 10 ml. of 10% NH_4Cl, 50 ml. of 2% $(\text{NH}_4)_2\text{HAsO}_4$ soln. and 0.2-0.3 g. of oxalic acid. Then, after dilg. to 150 ml. the general procedure of F^+ was followed. It is not necessary to use empirical factors for calcg. the results. W T H																			
ASB-31A METALLURGICAL LITERATURE CLASSIFICATION 100000																			

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(3)
 New qualitative test for vanadium. R. Pribil and J. Michal (Karlova Univ., Prague, Czech.). *Chem. Listy* 48, 621-2 (1954).—A new test for V is based on the formation of a red complex of VO_2^+ with quercetin (I) and Ac_2CH_3 . To a soln. contg. V add a 0.5% soln. of I in a mixt. of equal parts Et_2O and Ac_2CH_3 ; a rose or red color is developed. The test is disturbed by the presence of Fe which can be masked by complexon III. Bi, Sb, Ti, Zr, and PO_4 give yellow colors with I. An acetone soln. of I turns green in the presence of V.
 M. Hudlický

10-12-54

mdk

CZFH.

2040. Tetraethylthiuram disulphide as an analytical reagent. 1. A new specific reaction for copper. J. Michal and J. Záh, (Chem. Listy, 1954, 48, 16).
~~2. 610. A new specific reagent for the detection of Cu has been found in tetraethylthiuram disulphide (I). When a drop of a neutral or acid soln. containing Cu is treated with 2 to 3 drops of a saturated soln. of I in 40 per cent. ethanol, a yellow-brown coloration develops. Selenium and the interloer; the former can be masked with KI/VA and in the presence of the latter a special procedure must be used.~~
G. Glaser

CZECH

2345. Tetraethylthiuram disulphide as an analytical reagent. II. Photometric determination of copper. J. Michal and J. Zita (Chem. Listy, 1964, 58, 1744-1745). The basis of the present method for the photometric determination of Cu in the presence of other metals is the formation of an intense yellow-brown color with an absorption max. at 443 mμ, when Cu reacts with tetraethylthiuram disulphide (I). In the presence of Hg⁺⁺ an excess of the reagent should be used, for Hg⁺⁺ also forms a stable, though colorless, complex with I. Coloured cations, if present in high concentration, may interfere. The following procedure is recommended for the determination of Cu in the presence of an excess of Fe. Remove all Fe by two precipitations in the hot with aq. NH₃ and filtering, dilute the combined filtrates with water to 100 ml, acidify a 25-ml aliquot with HCl, treat the solid with 80 per cent. ethanol (80 ml) and a 0.01 M ethanolic soln. of I (5 ml), dilute with ethanol to 50 ml and measure the extinction after 30 min. G. GLASS

MICHAEL J

5

Tetraethylthiuram disulfide as an analytical reagent. III: Gravimetric determination of selenium dioxide. Jan Michal and Jaroslav Zicha (Karlová Univ., Prague). Chem. Zvesti 48, 1338-40 (1954); cf. C.A. 48, 13522c. — Gravimetric detn. of selenites is based on their reduction to Se with an EtOH soln. of tetraethylthiuram disulfide (I). Add 5 ml. concd. HCl to a sample contg. 10-100 mg. Se in 30 ml., dil. with EtOH to 60 ml., heat to boiling, add 10 ml. 0.05M I in 98% EtOH, filter the red ppt. of Se with a fritted-glass crucible (G 3), wash with 50% EtOH, finally with 5-10 ml. 98% EtOH, and dry at 100°. — M. Hudlický

top

MICHAEL, JAN

CZECH

Photometric determination of copper and the gravimetric
determination of selenium with tetraethylthiuram disulfide.
Jan Michael and Jaroslav Ziska. Collection: Czechoslovak
Chem. Commun. 20, 805-11 (1955) (in German). - See C.A.
48, 13522d; 49, 778i.
R. J. C.

7/18/51

MICHAEL JAN

Identification and rapid specific determination of copper in
ores. Jan. Michael and Jaroslav Zika (Karlovy Vary,
Prague). *Vlasta Dulek, Vlasta Grol, 25, 33-41 (1955)*
(English summary); *Ch. C.A. 48, 13522c. Tetraethyl-
thiuramdisulfide (I) is a specific reagent for Cu with which
it forms a brown complex. Only Se and mercurous ions
interfere, colored ions can be masked by addn. of NaF. To
5 ml. of a slightly acidic soln. (HCl) contg. 5-60 γ Cu add
30 ml. 95% EtOH and 3 ml. of a 0.01M soln. of I in 90%
EtOH. Make up to 50 ml. and measure the intensity of the
color developed after 15 min. in a Fisher spectrophotometer
with a blue filter 425 B. If used as a spot test, the sensi-
tivity of I is 0.015 γ Cu.*

Rudolph Pick

MICHAEL, J.

Quarantin as developing agent in the chromato-
graphy of ~~thiophene compounds~~ Michael, J.

cm

MICHAL, JAN

Quercetin as a reagent for the detection of inorganic compounds in paper chromatography. Jan Michal (Univ. of Prague, Prague, Czechoslovakia). Chem. Listy 66:1000 (1968).
A 1% alc. soln. of quercetin is a suitable detecting reagent for inorg. cations in paper chromatography, developing mostly a yellow coloration with the following ions: Ag, Hg, Cu, Bi, Sb, Sn, Fe, Al, Ni, Co, Mg, Li, Mo, Be, Ga, In, Pr, Nd, Sm, U, V, W, Ti, La, Th, Zr, AsO₃. M. Hudlicky

1112 1114 1116
Czechoslovakia/Analytical Chemistry. General Topics.

G-1

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 19485.

Author : Jan Michal.

Inst : -

Title : Chromatography of Inorganic Substances. I Chromatographic Separation of Berillium, Uranium and Titanium.

Orig Pub : Chem. Listy, 1956, 50, No 4, 542-546; Sb. Chekhosl. Khim Rabot, 1956, 21, No 5, 1295-1299.

Abstract : The mixture of iso-C₃H₇OH, acetone and concentrated HCl (6:2:2) was used for the separation of Be, U and Ti by the chromatographic method on Watmann's paper No. 1. The substances in the form of solutions of Be and Ti (4+) chlorides and UO₂(NO₃)₂ were placed on the paper. After the chromatographic separation the dried paper stripes were sprayed with 1% solution of quercetin in alcohol; the presence of Ti is disclosed by a bright brown spot, and that of Be by a yellow

Card 1/2

-13-

MIC 4114 J 110

CZECHOSLOVAKIA/Analysis of Inorganic Substances.

G-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19593

Author : Jan Michal, Jan Dolizal.

Inst :

Title : To determine Concerning Photometric Determination of Cobalt.

Orig Pub: Chem. Listy, 1956, 10, No 6, 911 - 915; Sb. Czechoslov. Kemi. Listy, 1956, 11, No 6, 1413 - 1417.

Abstract: The cobalt complex of cobalt with ethylenediamine (Cobalt complex of cobalt with ethylenediamine) is determined by photometry at $\lambda = 6$ when the concentration of cobalt is known. The complex is stable for 2 hours. The complex is determined at $\lambda = 6$ (at $\lambda = 6$ at 320 nm, instable in ultraviolet light) and at

Card 1/3

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MICHAEL, J.

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5
Determination of mercury in ores and concentrates. I. Michal, J. Jankovský, and E. Pavlíková (Inst. Erzberg, Czechoslovakia). Z. anal. Chem. 153, 83-8 (1954). The Hg which has been collected on a Au foil by the method of Pachka is dissolved in HNO_3 and titrated with di-Na (ethylenedinitrilo)tetraacetate (D). The method is applied to samples contg. 0.01-20% Hg. Boil the Au foil contg. the Hg with 30 ml. 1:4 HNO_3 , wash the foil thoroughly, add a few drops 20% H_2O_2 , boil to form $\text{Hg}(\text{II})$, and cool. Add a measured excess of 0.05M I, neutralize to methyl red with 20% NaOH, make acid with 0.1M HNO_3 , add 5 ml. buffer soln. (54 g. NH_4Cl , 350 ml. 25% NH_3 soln./l.), add enough indicator (1% Eriochrome Black T in NaCl) to give a strong color, and titrate with 0.05M ZnCl_2 soln. to the change from blue to wine red. K. G. Stone

RMmk

MICHAL, J.; ZIKA, J.

"Tetraethylthiuram disulfide as an analytic reagent. IV. Photometric determination of mercury and silver. In German."

p. 1135 (Sbornik Chekhoslovatskikh Khimicheskikh Rabot, Vol. 22, no. 4, Aug. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accession (IEAI) SC, Vol. 7, No. 8, August 1958

Alkaloids

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*Tetraphylthiuram Disulphide as an Analytical Reagent. IV.—
 Photometric Determination of Mercury and Silver. Jan Michal and
 Jaroslav Ziska. *J. Chem. Univ.*, 1957, 31, 56-62; *C. Abs.*, 1957, 31,
 11929.—[In Czech]. Photometric detn. of Hg and Ag is based on
 decoloration of a brown soln. of a complex of tetraphylthiuram
 disulphide (I) with Cu. Mixing equal parts of saturated soln. of I
 in 50% aq. C_2H_5OH and of $CuSO_4 \cdot 5H_2O$ in C_2H_5OH gave, after
 48 hr. at room temp., brown crystals of the Cu salt of I for which
 the name Mercopral (II) is suggested. To determine Hg, add 2 ml.
 of a soln. contg. 10 mg. II in 250 ml. C_2H_5OH to a soln. of a Hg^{++} salt,
 and shake the mixture with 15 ml. C_2H_5OH in a separating funnel for
 3 min. Transfer the soln. to a volumetric flask, fill to the mark
 with 96% C_2H_5OH , and measure the absorption at 445 m μ .
 Determine Ag in the same way. Moderately conc. soln. of Ce^{IV}
 interfere by decolorizing II.

om

Distr: 4E2c

27
~~Determination of iron in thin-film iron ores. Iron~~
~~Mineral and Organic Matter (Iron ore, iron ore~~
~~ores). Methods, May 11, 1964, 11(11).~~
~~for the detn. of Fe content in thin-film iron ores was~~
~~elaborated. The principle of this method consists of the~~
~~dissolution of the specimen with HClO₄ and H₂PO₄, the~~
~~reduction of trivalent Fe to bivalent iron with a Ag re-~~
~~ductor, and in a final titration with K₂Cr₂O₇.~~
 Peter Schneider

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1

5 (2), 5 (3)

AUTHORS:

Michal, Jan, Zýka, Jaroslav

SOV/75-14-4-6/30

TITLE:

The Determination of Small Amounts of Copper in Metals With the Help of Tetraethylthiuram Disulfide

PERIODICAL:

Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 4, pp 422-426 (USSR)

ABSTRACT:

Tetraethylthiuram disulfide $(C_2H_5)_2NC(S) \cdot S \cdot S \cdot (S)CN(C_2H_5)_2$ is a very easily accessible compound, which is used as a pharmaceutical preparation and in the rubber industry. It is difficultly soluble in water and better soluble in organic solvents (e.g. in alcohol). Tetraethylthiuram disulfide forms almost colorless crystals with a melting point of 70° . Its alcoholic solution reacts with copper(II) salts in weakly acid solutions to form an intensely yellow-brown compound. The authors propose the name "Dikupral" for tetraethylthiuram disulfide. The proof of copper with the help of Dikupral is only upset by salts of univalent mercury and by selenites, which are reduced to the element by the reagent. The sensitivity of the proof of copper is as follows: pD = 5.70 on a drop plate; pD = 5.0 in a microscopical test-tube; pD = 7.18 in an extraction with ether; pD = 6.48 on filter paper. Excess amounts of nitric acid and other strong oxidizing agents

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The Determination of Small Amounts of Copper in Metals SOV/75-14-4-6/30
With the Help of Tetraethylthiuram Disulfide

are upsetting. Silver- and mercury(II) ions form colorless compounds with Dikupral', which are more stable than the corresponding copper complex. In the presence of mercury- and silver ions a surplus of the reagent must be added, therefore, for the proof of copper so that the yellow-brown coloring occurs. On the other hand, Dikupral' can be used for the sensitive selective determination of silver or mercury (Refs 5-7). The absorption maximum of the solutions of the copper complex with Dikupral' appears at 435 m μ . The authors worked out the optimum conditions of a quantitative photometric determination of copper with the help of Dikupral'. At the same time, the influence exercised by a great excess of various metal ions on the photometric determination was investigated. It turned out that in many cases the determination of copper in pure metals with contents of only 0.01 % of Cu is possible without separation. The elaboration of optimum conditions for the determination of copper is described in detail. Specifications for the quantitative determination of small amounts of copper in the metals zinc, aluminum, mercury, tungsten, tin, manganese and antimony and also arsenic are given in the paper. The constancy of the coloring of the

Card 2/3

The Determination of Small Amounts of Copper in Metals SOV/75-14-4-6/30
With the Help of Tetraethylthiuram Disulfide

compound of copper with Dikupral' in the following media is shown in a table: 0.01 N - 8 N H_2SO_4 ; 0.001 N - 4 N HCl; 0.01 N - 4 N $HClO_4$; 1 N - 6 N H_3PO_4 ; 0.05 N, and 0.08 N HNO_3 ; 5% oxalic acid; 5% tartaric acid. There are 4 figures, 1 table, and 12 references.

ASSOCIATION: Scientific Research Institute of Ores; Charles University, Prague (CSR)

SUBMITTED: September 20, 1958

Card 3/3

FIDLER, Josef, promovany chemik; MICHAL, Jan CSc.

Chromatographic separation and determination of rare earth elements. Rudy 11 no.10: **Supplement**: Prace vyzkumnych ustavu no.5:35-38 6 '63.

1. Ustav pro vyzkum rud, Praha.

MICHAŁ, Korbecki (Warszawa, ul. Chalubinskiego 5.)

Progress of laboratory diagnosis of virus diseases. Postępy hig. med.
dosw. 12 no.5:455-466 1958.

1. Zakład Mikrobiologii Lekarskiej Am.
(VIRUS DISEASES, diagnosis,
review (Pol))

MICHAL, M.

"Oscillator unit." p. 295

SDELOVACI TECHNIKA. Praha, Czechoslovakia, Vol. 3, No. 10, Oct., 1955

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September, 1959
Unclas

Notes on the history of ethnological museology in Slovakia.
L. H. K. Slovenská akadémia vied Bratislava. Vol. 4,
no. 1, 1956.

FRG: East European Acquisitions List, Vol. 5, no. 1, September 1956

MICHAL, M.; CERMAK, J.

"Securing of gable walls in the construction of a hotel in Horovice." p. 150

POZEMNI STAVBY. Praha, Czechoslovakia, Vol. 7, No. 3, March, 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959
Uncl.

MULLER, Jan; MICHAL, Vojtech

On the prevention of injuries during roentgenological examination.
Ces. rentg. 13 no.5:289-300 0 '59

1. Ustav hygieny prace a chorob z povolani, Praha.
(RADIATION PROTECTION)

SVOBODA, Milan; MICHAL, Vojtech

Conclusion from the follow-up of radiation doses and their relationship to the use in the current practice. Shall we examine or damage? Ces. rentg. 13 no.5:311-315 0 '59

1. Ustav hematologie a krevni transfuse v Praze, reditel prof. dr. J. Horejsi Ustav hygieny prace a chorob z povolani v Praze, reditel prof. dr. J. Teisinger.

(RADIATION PROTECTION)
(RADIOMETRY)

MICHAL, Vojtech; SVOBODA, Milan

Doses of radiations in routine fluoroscopy and roentgenography.
Ces. rentg. 13 no.5:316-320 0 '59.

1. Ustav hygieny prace a chorob z povolani v Praze, reditel prof.
dr. J. Teisinger Ustav hematologie a krevni transfuze v Praze, reditel
prof. dr. J. Horejsi.
(RADIOMETRY)

MICHAL, Vojtech;SVOBODA, Milan

Study of the surface and gonad-doses in relation to the voltage
and the distance from the margin of the field. Ces. rentg. 13 no.5:
321-326 0 '59

1. Ustav hygieny prace a chorob s osovani v Prase, reditel prof. dr.
J. Teisinger Ustav hematologie a krevni transfuze v Prase, reditel
prof. dr. J. Horejsi.

(GONADS radiation eff.)
(RADIATION PROTECTION)

MICHAL, Vojtech; BENES, Vaclav; KOSEK, Petr

Lowering of the gonad dose in radiography of the hip joint in children. Acta chir.orthop.traum.czech. 27 no.4:n.p. Ag'60.

1. Ortopedické oddelení KUMZ Pardubice, přednosta MUDr. Vaclav Benes; Ústav hygieny práce a chorob z povolání v Praze, red. prof.dr. J. Teissinger Rentgenologické oddelení KUMZ Pardubice, přednosta MUDr. Frantisek Prochazka.

(HIP radiog)

(RADIATION PROTECTION in inf & child)

MICHAL, V.; LORIS, J.

A technic for a prolonged intravenous infusion. I. Introduction of a polyethylene tube into the arterial tree. Rozhl.chir.40 no.2-3:155-158 Mr '61.

1. Ustav klinicke a experimentalni chirurgie, Praha-Krc, reditel prof. MUDr. B. Spacek.
(INFUSION PARENTERAL)