

REZNIK, I.Ye., kand. voyennykh nauk, polkovnik, voyenny letchik pervogo
klassa; VORONOV, V.M., kapitan, voyenny shturman pervogo klassa;
STEPANETS, V.S., kapitan, voyenny shturman pervogo klassa;
VOLKOV, V.S., mayor, voyenny shturman pervogo klassa; PAVLOV, G.V.,
polkovnik, voyenny letchik pervogo klassa; DANILKO, S.L., podpolkovnik,
voyenny shturman pervogo klassa

It is very important to improve the tactical training of flight
personnel. Mor. sbor. 48 no.6:44-53 Je '65.

(MIRA 18:6)

STEPANIDENKO, V.A.

Treatment of peptic ulcer of the stomach and duodenum with hexonium.
Vrach.delo no.9:905-907 S '59. (MIRA 13:2)

1. Kafedra fakul'tetskoy terapii (zaveduyushchiy - prof. S.P. Zavod-
skoy) Stavropol'skogo meditsinskogo instituta.
(PEPTIC ULCER) (AMMONIUM COMPOUNDS--THERAPEUTIC USE)

B. A. STEPANIKO, B. N.

H W

The breakdown of hydrazones of sugars by aldehydes. B. N. Stepaniko and V. A. Igatyuk-Melstrenko (*Russkimi*, 1961, 10, 256-261).—The breakdown of phenylhydrazones of galactose and mannose by PhCHO is studied in aq. solution, in aq. EtOH, in aq. dioxan, and in non-aq. solvents. Water appears to act not only as a solvent but as a substance entering into the reaction which is probably hydrolytic. The breakdown of the phenylhydrazones of certain carbohydrate deriv. is also discussed. D. H. SMYTH.

TOVARNITSKIY, Vladimir Ivanovich, doktor biolog. nauk, prof.; STEPANIN,
N.TS, red.; YELAGIN, A.S., tekhn. red.; MEDVEDEVA, R.A., tekhn..
red.

[Frontiers of life; a story about viruses] Na granitse zhizni;
povest' o virusakh. Moskva, Izd-vo "Sovetskaia Rossiia," 1961.
193 p. (MIRA 15:3)

(VIRUSES)

STEPANISHCHEV, A. D. (Captain of the Medical Service)

"Experience in the Use of Potentiated Local Anesthesia."

Voyenno-Meditsinskiv Zhurnal, No. ~~16~~⁷, December 1961, pp 62-73

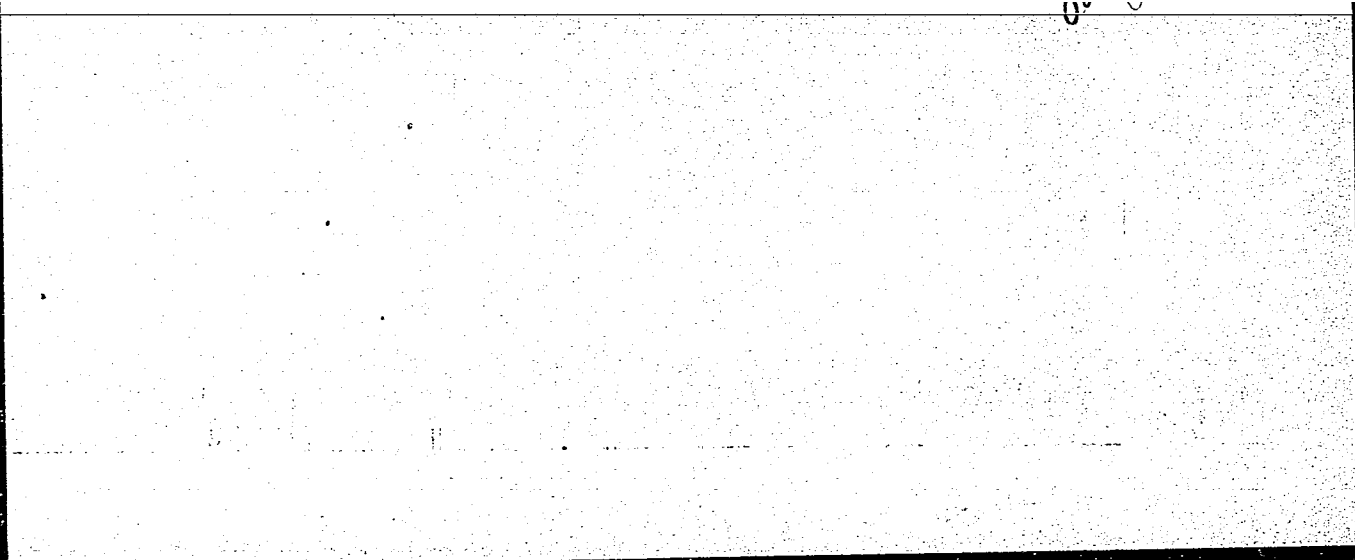
STEPANISHCHEV, A.D., kapitan meditsinskoy sluzhby

Use of potentiated local anesthesia. Voen.-med. zhur. no.7:78 J1 '61.
(MIRA 15:1)

(LOCAL ANESTHESIA) (AUTONOMIC DRUGS)

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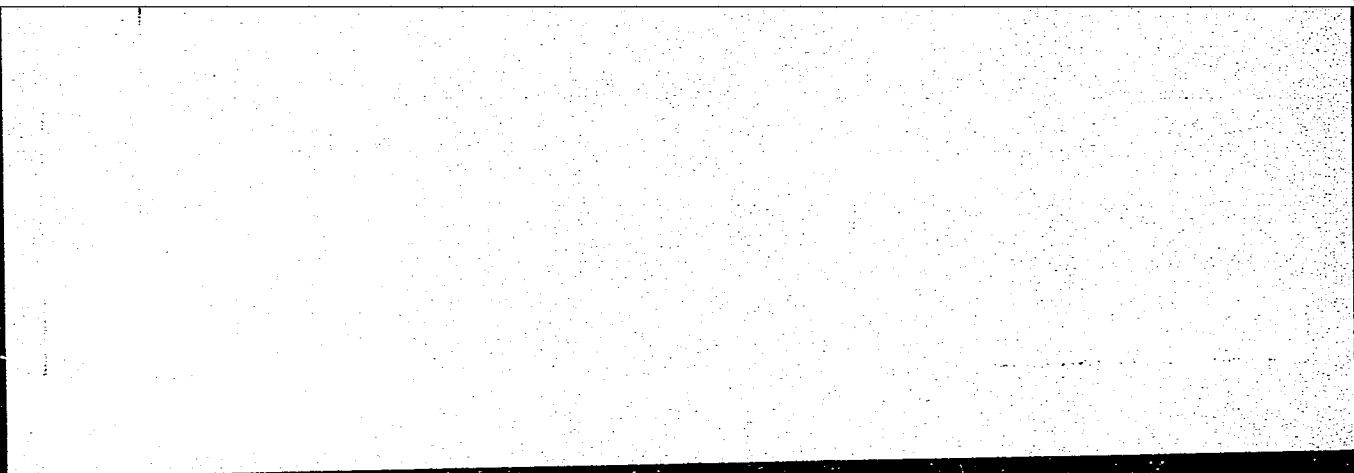


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STEPANISHCHEVA, Z. G. Cand. Biol. Sci.

Dissertation: "New Data on the Ecology of Gypseum Trichophyton." Inst of
Malaria, Medical Parasitology and Helminthology, Acad Med Sci USSR,
10 Nov 47.

SO: Vechernyaya Moskva, Nov, 1947 (Project #17836)

*STEPANISHCHEVA, Z. G.

"Role of Middle Medical Personnel in the Study of Fungus Flora," Fel'dsher i Akusher.,
No. 11, 1949. Cand. Biological Sciences.

СТЕПАНИШЧЕВА, З. Г.
ARIYEVICH, A. M.; STEPANISHCHEVA, Z. G.

Epidemiology of microspora. Sovet. med. no.8:22-24 Aug 1951.
(CI&L 20:11)

1. Prof. Ariyevich; Candidate Biological Sciences Stepanishcheva. 2. Of the Mycological Department (Head -- Prof. A. M. Ariyevich), Central Skin-Venereological Institute of the Ministry of Public Health, USSR.

STEPANISHCHEVA, Z. G.

Cats - Diseases

Clinical aspect and the course of microsporia
in cats. Veterinariia 29 no. 5, 1952

Monthly List of Russian Accessions, Library of Congress,
August, 1952 UNCLASSIFIED.

STEPANISHCHEVA, Z. G.

ARIYEVICH, A.M., professor; STEPANISHCHEVA, Z.G., kandidat biologicheskikh nauk; BEKKEROV, G.Ye., Kandidat meditsinskikh nauk

Use and preparation of fungus vaccines from pathological substances.
Vest. ven. i dermat. no.3:53 My-Je '54. (MLBA 7:8)

1. Iz mikologicheskogo otdela Tsentral'nogo kozhno-venerologicheskogo instituta.

(FUNGI--THERAPEUTIC USE)
(DERMATOMYCOSIS)

(VACCINATION)

ARIYEVICH, A.M., professor,; SMELOV, N.S., professor,; PORUDOMINSKIY, I.M. professor,; STEPANISHCHEVA, Z.G., kandidat biologicheskikh nauk.,; TURANOVA, Ye.N., kandidat meditsinskikh nauk.; KALAMKARYAN, A.A., nauchnyy sotrudnik.

Fungoid infection of the mucus membrane and skin caused by biomycin and syntomycin therapy. Vest. ven. i derm. 6:8-13 N-D '55.

(MLRA 9:5)

1. Iz TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir.--kandidat meditsinskikh nauk N.M. Turanov)

(SKIN, dis.

fungus dis., caused by biomycin & chloramphenicol)

(ANTIBIOTICS, inj. eff.

biomycin, causing fungus dis. of skin)

(CHLORAMPHENICOL, inj. eff.

fungus dis. of skin)

(FUNGUS DISEASES

skin, caused by biomycin & chloramphenicol)

ARIYEVICH, A.M., professor; STEPANISHCHEVA, Z.G., kandidat biologicheskikh nauk; BEREZINA, G.A.; KRASNOPOL'SKAYA, V.I.

Mycotic infections caused by antibiotics. Sov.med.19 no.7:38-43
J1 '55. (MLRA 8:10)

1. Iz mikologicheskogo otdela (zav.-prof. A.M. Ariyevich) Tsentral'nogo kozhno-venerologicheskogo instituta (dir.-kand. med. nauk N.M. Turanov) Ministerstva zdravookhreneniya SSSR, iz Kuntsevskoy gorodskoy bol'nitsy (glavnyy vrach V.A. Stasiyuk) iz Moskovskoy oblastnoy psikhonevrologicheskoy bol'nitsy No.1 (glavnyy vrach G.M. Khanlaryan)

(FUNGUS DISEASES, etiol. and pathogen.
antibiotics)
(ANTIBIOTICS: inj. eff.
fungus dis.)

EXCERPTA MEDICA Sec 13 Vol 13/5 Dermatology May 59

1197. NEW DATA ON THE EPIDEMIOLOGY OF RINGWORM INFECTION CAUSED BY MICROSPORUM LANOSUM, EXPERIMENTAL AND CLINICAL STUDIES (Russian text) - Stepanishcheva Z. G. - VOPR. DERMATO-MIKOL., 1956, 11 (265-266)

Cats in areas where ringworm infection was common did not show clinical evidence of the infection, but by examination for fluorescence *Microsporum lanosum* was detected on single hairs in the region of the mouth, the nostrils, the superciliary ridges and auricular hollows, very rarely on the trunk, the extremities and the paws. It has been found that ringworm infection may persist in a cat for 5 to 9 months and subside spontaneously. The animals may be later reinfected with the fungus. The singular clinical and immunological reaction of cats to ringworm infection illustrates the adaptability of the fungus to various hosts. It has been experimentally confirmed that ringworm infection may be passed on to a healthy animal by contact with an infected cat or with contaminated objects. The presence of *Microsporum lanosum* in vegetable waste has been also confirmed in experiments. For successful combating of ringworm infection the organization of veterinary measures is considered to be as important as dermatological treatment. (S)

STEPANISHCHEVA, Z.G., kandidat biologicheskikh nauk.

Trichophytosis of the claws in a rabbit. Veterinariia 33 no.10:
59-60 O '56. (MLBA 9:10)

1. Tsentral'nyy nauchno-issledovatel'skiy kozhno-veneralogicheskiy
institut.

(Rabbits -- Diseases) (Dermatomycosis)

Country : USSR V
Category= : Pharmacology and Toxicology. Chemotherapeutic Preparations. Antibiotics
Abs. Jour. : Ref Zhur-Biol, No 13, 1958, No 61546
Author : Stepanishcheva, Z. G.
Institut. :
Title : On Changes in the Yeast Flora of Mucous Membranes During Treatment with Biomycin [Chlortetracycline] and Synthomycin [Chloramphenicol]
Orig. Pub. : Zh. mikrobiol., epidemiol. i immunobiologii, 1957, No 2, 94-99
Abstract : In the process of treating 40 patients, significant changes were detected in normal bacterial biocenosis. Instead of single colonies of *Candida* fungi found in 18 patients prior to therapy, numerous colonies were discovered in 29 of 40 patients following treatment. Maximum growth of yeast flora was observed from the sixth to the tenth day after institution of treatment, in the period corresponding to the appearance of clinical signs of complicating mycosis. The develop-
Card: 1/3

V - 37

СТЕПАНИШЧЕВА, З.Г.
FOMINA, I.P.; STEPANISHCHEVA, Z.G.

Experimental acute visceral *Candida* infection in mice and its use in the study of the therapeutic effectiveness of antimycotic antibiotics and other chemical substances. [with summary in English]. *Antibiotiki* 2 no.6:34-38 N-D '57. (MIRA 11:2)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V.Yermol8yeva) TSentral'nogo instituta usovershenstvovaniya vrachey i mikologicheskij otdel (zav. - prof. A.M.Ariyevich) TSentral'nogo kozhno-venerologicheskogo instituta.

(MONILIASIS, experimental,
eff. of antibiotics & other drugs (Rus))
(FUNGICIDES, effects,
on exper. moniliasis (Rus))

STEPANISHCHEVA, Z. G.

STEPANISHCHEVA, Z.G.

Laboratory diagnosis of moniliasis. Report No.1. Microscopic studies. Lab.delo 3 no.3:29-31 My-Je '57. (MLRA 10:9)

1. Iz mikologicheskogo otdela (zav. - prof. A.M.Ariyevich) Tsentral'nogo kozhno-venerologicheskogo instituta Ministerstva zdravookhraneniya SSSR, Moskva.
(MONILLIASIS)

STEPANISHCHEVA, Z.G.

Method for the preservation of a collection of living dermatophytes
cultures. Lab.delo 3 no.4:41-44 J1-Ag '57. (MLRA 10:8)

1. Iz mikologicheskogo otdela (zav. - prof. A.M Ariyevich) Tsentral'-
nogo kozhno-venerologicheskogo instituta Ministerstva zdavookhrane-
niya RSFSR. Moskva
(DERMATOPHYTES)

ARIYEVICH, A.M., Prof.; STEPANISHCHEVA, Z.G., kand. biol. nauk.; UMNOVA, I.I.,
kand med. nauk.; LESUN, L.G.; YAGOROVA, Ye.V.

Fungus diseases of the foot and measures for prevention and control.
Sov. med. Zl no.7:135-138 J1 '57. (MIRA 12:3)

1.. Iz mikologicheskogo otdela (zav. - prof. A.M. Ariyevich) Tsentral'-
nogo kozhno-venerologicheskogo inatituta (dir. - dots. N.M. Turanov)
Ministerstva zdravookhraneniya RSFSR.

(FOOT, dis.

fungus dis., prev. & control (Rus))

(RINGWORM, prevention and control,

foot (Rus))

STEPANISHCHEVA, Z.G.

Changes in the yeasts of the mucous membranes during treatment
with biomyacin and synthomycin. Zhur. mikrobiol. epid. i immun 28
no.2:94-99 F '57 (MLRA 10:4)

1. Iz Tsentral'nogo kozhno-venerologicheskogo instituta Ministerstva
zdravookhraneniya SSSR.

(CHLORTETRACYCLINE, inj. eff.
moniliasis of oral mucosa)

(CHLORAMPHENICOL, inj. eff.
same)

(MONILIASIS, etiol. and pathogen.
chlortetracycline & chloramphenicol ther. causing
moniliasis of oral mucosa)

ARIYEVICH, A.M., STEPANISHCHEVA, Z.G.

Affections of the mucosa caused by yeast-type fungi and Leptotrix following the local application of antibiotics. Antibiotiki 3 no.4: 124-126 J1-Ag '58 (MIRA 11:10)

1. Mikologicheskiy otdel (zav. - prof. A.M. Ariyevich) Tsentral'nogo kozhno-venerologicheskogo instituta Ministerstva zdravookhraneniya RSFSR:

(MUCOUS MEMBRANES--DISEASES)
(MEDICAL MYCOLOGY)

STEPANISHCHEVA, Z.G.; REZNIKOVA, L.S.

Serological changes in rabbit blood following immunization with yeast vaccine. Zhur.mikrobiol.epid. i imun. 30 no.1:38-43 Ja '58.
(MIRA 12:3)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta.

(MONILIASIS, immunol.

vacc., serol. aspects in rabbits (Rus))

STANPANISHCHENVA, Z.G., kand. biol. nauk.

Adaptation of dermatophytes to specific species of animals. Veterinaria 35 no.4:33-37 Ap '58. (MIRA 11:3)

1. Tsentral'nyy kozhnovenerologicheskii institut Minzdrava RSFSR. (Dermatophytes)

STEPANISHCHEVA, Z.G., Doc Biol Sci -- (diss) "Experimental data for the epidemiology of the microscopy and biology of ~~the~~ downy microsp^oo^oma." Mos, 1959, 21 pp (First Mos Order of Lenin Med Inst im I.M. Sechenov) 250 copies. List of author's works at end of text (¹¹ titles) (KL, 36-59, 113)

STEPANISHCHEVA, Z.G., kand.biologicheskikh nauk.

Cultivation of some dermatophytes under nonsterile conditions.
Sbor. nauch. rab. po lepr. i dermat. no.13:129-133 '59.

(MIRA 14:6)

(DERMATOPHYTES)

STEPANISHCHEVA, Z.G.

Some problems in the method of laboratory diagnosis for mycoses of
the feet. Lab.delo 6 no.6:29-33 N-D '60. (MIRA 13:11)

1. Mikologicheskiy otdel (zav. - prof. A.M.Ariyevich) Tsentral'nogo
kozhno-venerologicheskogo instituta (dir. N.M.Turanov) Ministerstva
zdravookhraneniya RSFSR, Moskva.

(DERMATOMYCOSIS)

(FOOT--DISEASES)

ARIYEVICH, A.M., prof.; STEPANISHCHEVA, Z.G., kand.biologicheskikh nauk

Problems of disinfection in the prevention of mycoses. Gig. i
san. 25 no. 5:100-101 My '60. (MIRA 13:10)

1. Iz mikologicheskogo otdela Tsentral'nogo kozhno-venerologicheskogo
instituta Ministerstva zdravookhraneniya RSFSR.
(MEDICAL MYCOSES)

BOL'SHAKOVA, G.M.; ~~STEPANISHCHEVA, Z.G.~~

On the maduromycotic foot. Vest.derm.i ven. 34 no.3:40-44 My-Je
'60. (MIRA 13:10)

(MADUROMYCOSIS case reports)

ARIYEVICH, A.M.; VIKHREVA, O.G.; LEBEDEV, B.M.; STEPANISHCHEVA, Z.G.

Some new principles and methods in the treatment of patients with onychomycoses. Vest. dermat. i ven. 34 no. 5:30-35 1960.

(MIRA 14:1)

(NAILS (ANATOMY)—DISEASES) (MEDICAL MYCOLOGY)

STEPANISHCHEVA, Z.G.

Epidemiological role of cats in spreading Microsporium among humans.
Zhur.mikrobiol. epid. i immun. 32 no.4:127-130 Ap '61.

(MIRA 14:6)

1. Iz Tsentral'nogo kozhno-venerologicheskogo instituta Ministerstva
zdravookhraneniya RSFSR.

(ANIMALS AS CARRIERS OF DISEASE)

(MICROSPORIUM)

STEPANISHCHEVA, Z.G., doktor biolog.nauk

Data on the problem of the role of soil in the epidemiology of
fungus diseases. Vest.derm.i ven. no.12:44-49 '61.

(MIRA 15:1)

1. Iz mikologicheskogo otdela (zav. - prof. A.M. Ariyevich) Tsentral'nogo kozhno-venerologicheskogo instituta (dir. N.M. Turapov) Ministerstva zdravookhraneniya RSFSR.
(SOILS—MICROBIOLOGY) (MYCOSIS)

STEPANISHCHEVA, Z.G., doktor biologicheskikh nauk

Role of soil in the epizootology and epidemiology of dermatomycoses. Veterinariia 39 no.1:69-72 Ja 1962. (MIRA 15:2)
(Soils--Microbiology)
(Dermatomycosis)

SHTEYNBERG, G.B., kand. med. nauk (Moskva); STEPANISHCHEVA, Z.G.,
doktor biologicheskikh nauk (Moskva)

Some problems in the hygienic evaluation of the production
of antibiotics. Vrach. delo no.10:117-119 0 '63.

(MIRA 17:2)

1. Tsentral'nyy institut usovershenstvovaniya vrachey i
Tsentral'nyy kozhno-venerologicheskii institut.

PRAVE, V.Ye.; STEPANISHCHENVA, Z.G.

Safe method for chamber disinfection of clothing contaminated
by pathogenic fungi. Vest. dermat. i ven. 37 no.6:61-63 Je '63.

(MIRA 17:6)

1. Moskovskaya gorodskaya dezinfektsionnaya stantsiya (glavnyy
vrach I.N. Kudrinskiy) i mikologicheskiy otdel (zav. - prof. A.M.
Ariyevich) Tsentral'nogo kozhno-venerologicheskogo instituta (dir.
N.M. Turanov) Ministerstve zdravookhraneniya RSFSR.

VILENKINA, A.Ya., doktor med. nauk; SAKSONOVA, Ye.O.;
GRIGOR'YANTS, T.N.; ARIYEVICH, A.M., prof.;
STEPANISHCHEVA, Z.G., doktor biolog. nauk

Aspergillosis of the cornea. Vest. oft. 76 no.3:55-56
My-Je '63. (MIRA 17:2)

1. Institut glaznykh bolezney imeni Gel'mgol'tsa i Tsentral'-
nyy kozhno-venerologicheskiy institut.

STEPANISHCHEVA, Z.G.; FISHERMAN, V.Ye.

Technique of determining griseofulvin in the skin and hair.
Vest. dermat. i ven. 37 no.9:26-28 3 '63. (MIRA 17:6)

1. Mikologicheskiy otdel (zav. - prof. S.M. Artyevich) Tsentral'noy kozhno-venerologicheskogo instituta (dir. - kand. med. nauk N.M. Turanov) Ministerstva zdravookhraneniya RSFSR i Moskovskiy mikologicheskiy dispanser (glavnyy vrach V. Ye. Zieserman).

ARIYEVICH, A.M., prof.; STEPANISHCHEVA, Z.G., doktor biologicheskikh nauk

Does histoplasmosis occur in the U.S.S.R.? Vest. dermat. i ven. 37
no. 10:20-24 0 '63. (MIRA 17:9)

1. Mikologicheskiy otdel (zav. - prof. A.M.Ariyevich) Tsentral'nogo
kozhno-venerologicheskogo instituta (dir. - kand. med.nauk N.M.
Turanov).

ARIYEVICH, A.M. (Moskva); VIKHREVA, O.G. (Moskva); NIKITINA, Ye.Ye. (Moskva);
STEPANISHCHEVA, Z.G. (Moskva)

Use of decamin in the treatment of patients with fungal diseases.
Vest. dermat. i ven. 38 no.7:54-57 J1 '64.

(MIRA 18:4)

KUNEL'SKAYA, V.Ya.; STEPANISHCHEVA, Z.G., doktor biol. nauk

Fungi in otitis externa. Vest. dermat. i ven. 38 no.10:51-55
0 '64. (MIRA 18:7)

1. Klinika bolezney ukha, gorla i nosa (direktor - deystvitel'-
nyy chlen AMN SSSR, prof. B.S. Preobrazhenskiy) lechebnogo
fakul'teta II Moskovskogo meditsinskogo instituta imeni N.I.
Pirogova i mikologicheskii otdel (zav. - prof. A.M. Ariyevich)
TSentral'nogo kozhno-venerologicheskogo instituta Ministerstva
zdravookhraneniya SSSR.

ARIYEVICH, A.M.; STEPANISHCHEVA, Z.G.

First experience in the use of grisemin for the treatment of
mold mycoses. Antibiotiki 9 no.2:186-189 F '64.

(MIRA 17:12)

1. Mikologicheskiy otdel Tsentral'nogo kozhno-venerologicheskogo
instituta Ministerstva zdravookhraneniya SSSR, Moskva.

ARIYEVICH, A.M., prof.; TYUFILINA, O.V., kand. med. nauk; TEPLITS, V.V.,
kand. med. nauk; STEPANISHCHEVA, Z.G., doktor biologicheskikh nauk

Gummatous ulcerative cephalosporiosis of the leg. Vest.
derm. i ven. 38 no.8:73-76 Ag '64. (MIRA 18:8)

1. Mikologicheskii otdel (zav.- prof. A.M. Ariyevich)
TSentral'nogo kozhno-venerologicheskogo instituta (dir.-
dotsent N.M. Turanov) Ministerstva zdravookhraneniya SSSR,
Moskva.

ARIYEVICH, Abram Mikhaylovich; STEPANISHCHEVA, Zinaida Gavrilovna;
ASTVATSATUROV, K.R., red.

[Candidiasis and other mycoses as complications in anti-
biotic therapy] Kandidemikozy i drugie mikozy kak oslozhne-
nie antibiotikoterapii. Moskva, Meditsina, 1965. 298 p.
(MIRA 18:9)

STEPANISHCHEVA, Z.G.; MALKINA, A.Ya.

Some data on the problem of the pathogenicity of keratophils.
Vest. dermat. i ven. 39 no.4:11-15 Ap '65; (MIRA 19:2)

1. Mikologicheskii otdel (zav. - prof. A.M. Ariyevich) Tsentral'-
nogo kozhno-venerologicheskogo instituta Ministerstva zdavookhra-
neniya SSSR, Moskva. Submitted April 23, 1964.

SOV/5892

PHASE I BOOK EXPLOITATION

Konferentsiya po elektronike sverkhvysokoy chastoty

Trudy (Transactions of the Conference on Superhigh-Frequency Electronics) Moscow, Gosenergoizdat, 1959. 271 p. 3,500 copies printed.

Sponsoring Agency: Vsesoyuznyy nauchnyy sovet po radiofizike i radio-tekhnike AN SSSR.

Eds. (Title page): I. S. Dzhitig, Professor, and Ye. G. Solov'yev, Candidate of Technical Sciences; Ed.: S. Akalunin; Tech. Ed.: G. Ye. Karionov.

PURPOSE: This book is intended for scientific and technical personnel concerned with the development and operation of superhigh-frequency devices.

COVERAGE: The book contains a number of papers dealing with the more important problems of superhigh-frequency electronics. The papers were submitted at the Conference on Electronics called by the Vsesoyuznyy nauchnyy sovet po radiofizike i radio tekhnike AN SSSR (All-Union Scientific Council for Radio Physics and Radio Engineering, AS USSR) and the Byuro novoy tekhniki AN SSSR (Bureau of Modern Engineering, Ministry of Defense, USSR) and held in Moscow in 1957. The reports deal with the following topics: problems of the theory and calculation of the delay systems of traveling-wave and backward-wave tubes; certain phenomena occurring in a cylindrical electron beam finding itself in a uniform magnetic field; the focusing of long beams by means of periodic magnetic and electric fields; and some problems concerning reflex klystrons. Modern types of cathodes for superhigh-frequency devices are described. No personalities are mentioned. References accompany most of the reports.

Afonskaya, N. N., V. G. Gabyshev, A. S. Dunayev, S. A. Zismanovskiy, M. I. Rybinov, A. G. Fikhkin, and G. P. Klyatov. Amplifier of the 10-Centimeter Band With 20-Hilliwatt Pulse Power 58

Ovcharov, V. I. Cylindrical Electron Beam in a Uniform Magnetic Field 80

Kozel', I. Sh. Concerning the Problem of Focusing a Cylindrical Hollow Electron Flow in a Periodic Magnetic Field 90

Skananibichev, V. R., A. A. Bryukhov, and Yu. P. Myakinikov. Focusing System With a Periodic Magnetic Field for Traveling-Wave Tubes 95

Smorodov, Yu. P. Shaping of Long Electron Beams by Axially Symmetrical Periodic Electrostatic Fields 103

Solntsev, V. A., and A. S. Tager. Electron Waves in a Periodic Electrostatic Field and Their Interaction With a Field of Waveguide Systems 112

Bleyvas, I. M. Installation for the Automatic Calculation and Plotting of Charged-Particle Trajectories in Electric and Magnetic Fields in the Presence of a Space Charge 133

Balakov, B. M., and V. P. Shestopalov. Propagation of Electromagnetic Waves in Delay Systems Using a Helix and a Dielectric 150

Beluga, I. Sh. Computation of a Multiwire Line With Rectangular Cross Section Conductors 171

Rubinshteyn, B. Ye. Analytico-Graphical Method of Determining the Losses of Symmetrical Three-Section Superhigh-Frequency Filters 187

Petrov, D. M. Concerning the Electronics of the Reflex Klystron 202

Shevchik, V. M., and Yu. D. Zharkov. Cascade Electron Bunching Used for the Analysis of a Carcinotron 226

Tsarev, B. M. Present-Day Cathode Types for Superhigh-Frequency Devices and Possible Ways of Developing New High-Efficiency Cathodes 236

STEPANITSKIY, N.M.; BRANTKOVSKIY, L.F.; ZAYTSEV, M.F.; ANTONOV, D.G.,
otv.red.; PEVZNER, A.S., zav.red.izd-va; HUDAKOVA, N.I.,
tekhn.red.

[Uniform time and pay standards for construction, assembly, and
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tel'nye, montazhnye i remontno-stroitel'nye raboty, 1960 g.
Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam.
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Montazh pod'emno-transportnogo oborudovaniia. No.2. [Non-continuous
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tel'stva. 2. Tsentral'noye normativno-issledovatel'skoye byuro
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Brantkovskiy, Zaytsev).
(Wages) (Cranes, derricks, etc.)

STEPANITSKIY, Yakov Moiseyevich; FUDIMAN, Grigoriy Moiseyevich;
DUBROVSKIY, V.A., red.; SILIN, V.S., red.; BALLOD, A.I.,
tekhn.red.

[Tolerances in tractors and motor vehicles; pocket handbook]
Zazory v traktorakh i avtomobiliakh; karmannyi spravochnik.
Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 365 p.

(MIRA 14:2)

(Tractors--Maintenance and repair)
(Motor vehicles--Maintenance and repair)

STEPANKINA, M. K.

STEPANKINA, M. K. "The dynamics of prothrombin in the blood during the course of the menstrual cycle", Trudy Sarat. gos. med. in-ta, Vol. VI, 1947, p. 75-78.

SO: U-4631, 16 Sept 53, (Istopis 'Zhurnal 'nykt Statey, No. 24, 1949).

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STEPANKINA, M. K.

Peculiarities of the dynamics of nitrogenous substances in the digestive tract of farm animals. N. U. Bazanova and M. K. Stepankina. *Vestnik Akad. Nauk Kazakh. S.S.R.* 10, No. 8 (Whole No. 101), 78-85(1953).—The daily dynamics of residual N and protein N in the duodenum of sheep or camels varies very widely with individuals. Sheep generally show highest activity of the frontal portion of the digestive tract in the later part of a day and particularly in early night; some strains of sheep show 2 maxima, one during the day, another at night. Camels show an unusually low content of residual and protein N in the digestive mass at any period of the day, although the large amt. of chyme usually present serves to counteract the impression of very efficient processes of digestion. Numerous analytical results are given at various periods of the day for many exptl. animals in both groups. C. M. K.

3

STEPANKINA, M.K.

BAZANOVA, N.U.; STEPANKINA, M.K.; ARKHANGEL'SKAYA, M.F.

Method of studying the function of the digestive tract in camels. Fiziol.
zhur. 39 no.5:632-633 S-0 '53. (MLA 6:10)

1. Laboratoriya vozrastnoy fiziologii Instituta.
(Digestive organs--Ruminantia) (Camels)

STEPANKINA, M. K.

USSR/Agriculture - Livestock

Card 1/1 : Pub. 123 - 4/17

Authors : Bazanova, P. U.; Stepankina, M. K., and Lutfullina, M. S.

Title : Physiological bases for increasing the production of farm animals

Periodical : Vest. AN Kaz. SSR 11/3 (108), 19-29, Mar 1954

Abstract : The lag in livestock raising, as compared with the program outlined by the Communist Party, was found to be due to insufficient attention paid to the physiology of the animals. Study of physiological processes and experiments accompanying the study, which was conducted by various agricultural institutes of Kazakhstan, are described. Tables.

Institution : ...

Submitted : ...

STEPANKINA, M.K.; TROFIMOVA, R.M.

Secretory function of the abomasum in cows as affected by estrus.

Trudy Inst. eksp. biol. AN Kazakh. SSR 3:53-55 '56. (MIRA 10:1)

(COWS) (ESTRUS) (NITROGEN—ASSIMILATION AND EXCRETION)

(STOMACH)

STEPANKINA, M.K.

Dynamics of nitrogenous substances in the duodenum of sheep as
affected by pregnancy. Trudy Inst.eksp.biol. AN Kazakh.SSR 3:
56-60 '56. (MIRA 10:1)

(SHEEP--PHYSIOLOGY) (DUODENUM)

(NITROGEN--ASSIMILATION AND EXCRETION)

(PREGNANCY)

STEPANKINA, M.K.

Regulation of the nitrogen content of duodenal chyme in sheep and
camels. Trudy Inst. eksp. biol. AN Kazakh. SSR 3:61-69 '56.
(RUMINANTIA) (PROTEIN METABOLISM) (MLRA 10:1)
(NERVOUS SYSTEM) (DUODENUM)

Stepankina, M.K.
BAZANOVA, N.U.; STEPANKINA, M.K.; TASHENOV, K.T.

Method for producing artificial anastomosis of Stenson's duct in
sheep. Trudy Inst.eksp.biol. AN Kazakh.SSR 3:109-110 '56. (MIRA 10:1)
(SHEEP--ANATOMY) (FISTULA) (PAROTID GLANDS--SURGERY)

USSR / Farm Animals. General Problems.

Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7264

Author : Bazanova, N. U.; Stepankina, M. K.

Inst : AS USSR

Title : The Physiological Characteristics of the Activity of the Digestive System of Sheep and Camels Depending upon Breed, Age, Feeding and Keeping Conditions.

Orig Pub : V sb.: Vopr. fiziol. s.-kh. zhivotnykh. M.-L., AN SSSR, 1957, 216-219

Abstract : A study was conducted investigating the physiology of digestion in 8 sheep of three breeds, 6 lambs (of the Prekos breed), 2 young camels with a duodenal anastomosis according to Sineshchekov, and 4 sheep of three different breeds with a rumen fistula accor-

Card 1/2

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ding to Basov. The animals were fed various kinds of hay and on pasture. It was established that the activity of the digestive tract does not only depend upon the nature of feeding and the method of keeping of the animals, but also upon the species of the animal, its breed and age. Feeding and keeping of animals should correspond to the characteristics of their species, age and breed.

-- M. F. Domina

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001653130002-0"

Card 2/2

STERNBERG, M.H., Doc Bio Sci --(dis) "On the participation of the higher level of cerebral cortex of sheep and other in the formation of conditioned reflexes." 1957. 26 pp. 150 pages (Min. of Agr USSR. 1957. 1957 1957 1957), 200 copies (17,21-57, 100)

STEPANKINA, M.K., TASHENOV, K.T.

Water metabolism in the camel. Fiziol.zhur. 44 no.10:991-996
O '58 (MIRA 12:1)

1. From the laboratory of physiology, Institute of physiology of Farm
Animals, Kazakh SSR Academy of Science, Alma-Ata.

(WATER, metab.
in camel (Rus))

(ANIMALS,
camel, water metab. (Rus))

STEPANKINA, M.K.

Some data on the secretion of nitrogenous substances by the
parotid salivary glands in sheep in relation to pregnancy.
Trudy Inst.fiziol. AN Kazakh.SSR 2:40-43 '59. (MIRA 13:7)
(NITROGEN IN THE BODY) (PAROTID GLANDS)
(PREGNANCY)

STEPANKINA, M.K.

Role of the pancreas in sheep in nitrogen metabolism. Trudy
Inst.fiziol.AN Kazakh.SSR 2:57-64 '59. (MIRA 13:7)
(PANGREAS) (NITROGEN METABOLISM)

Stepanko, I

AID P - 2648

Subject : USSR/Aeronautics
Card 1/1 Pub. 135 - 3/17
Author : Zakharov, N., Maj. Eng.
Title : Interception of air targets
Periodical : Vest. vozd. flota, 9, 17-21, S 1955
Abstract : The author reviews critically the article of
Stepanko, I., Col. published under the same title
in this journal, No. 2, 1955. He points out
errors.
Institution : None
Submitted : No date

STEPANKO, P.

Introducing progressive technology. Prof.-tekh.obr. 17 no.3:9-10
Mr '60. (MIRA 13:6)

1. Direktor tekhnicheskogo uchilishcha No.1, g.Kaliningrad.
(Kaliningrad--Education, Cooperative)

STEPANKOV, A.

Production of the means of production and amortization of the
means of labor. Vop. ekon. no.3:114-127 Mr '57. (MLRA 10:6)
(Amortization) (Machinery in industry)

STEPANKOV, A.

Method of determining the economic effectiveness of capital
investments in U.S.S.R. industry. Vop.ekon. no.6:93-100
Je '60. (MIRA 13:6)

(Capital investments)

STEPANKOV, A. A., Engineer

Cand Tech. Sci.

Dissertation: "Economy Problems of Water Power Engineering."

24 Jun. 49

Moscow Order of Lenin Power Engineering Inst.

imeni V. M. Molotov

SO Vecheryaya Moskva
Sum 71

STEPANKOV, ALEKSANDR ANTONOVICH

N/5

Osnovnyye Voprosy Ekonomiki Gidroenergetiki (Basic Problems
in Hydropower Industry) Moskva, Gosenergoizdat, 1956.

735.922
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359, (1) p. Diagr., Tables.

AVS

STEPANKOV, Aleksandr Antonovich

Ekonomicheskaya effektivnost' proizvodstva i kapital' nykh vlozheniy
(na primere toplivno-energeticheskikh otrasley promyshlennosti SSSR)
Moskva, Izd-vo Akademii Nauk SSSR, 1963.

439 p. graphs, tables.

At head of title: Akademiya Nauk SSSR. Institut Ekonomiki.

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2. Electrification

STEPANKOV, A.

Development rates and organization of the electric power engineering
economy. Vop.ekon. no.5:19-26 My '61. (MIRA 14:5)
(Electrification)

STEPANKOV, Aleksandr Antonovich; VILENSKIY, M.A., otv. red.;
KHMELEVSKIY, N.N., red. izd-va; SHEVCHENKO, G.N., tekhn.
red.; MAKOGONOVA, I.A., tekhn. red.

[Economic efficiency of production and capital investments;
based on the example of fuel and electric power branches of
U.S.S.R. industry] Ekonomicheskaya effektivnost' proizvod-
stva i kapital'nykh vlozhenii; na primere toplivno-energeti-
cheskikh otraslei promyshlennosti SSSR. Moskva, Izd-vo Akad.
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(Electric power production—Finance)

9(2,6)

PHASE I BOOK EXPLOITATION

SOV/1761

Vinokurov, V.V., and M.M. Stepankov

Tekhnika izmereniya osnovnykh elektricheskikh parametrov priyemno-usilitel'nykh lamp (Techniques in Measuring the Basic Electrical Parameters of Receiver Amplifier Tubes) Moscow, Gosenergoizdat, 1958. 205 p. 18,000 copies printed.

Ed.: A.A. Zhigarev; Tech. Ed.: N.I. Borunov.

PURPOSE: This book is intended for engineers and technicians of vacuum-tube factories and for students specializing in vacuum-tube techniques at institutes and tekhnikums. It may also be useful to specialists interested in the problems of tube testing.

COVERAGE: The authors describe various methods of measuring the electric parameters of receiver amplifier tubes. Part of the book is devoted to the problems of the design and construction of testing equipment. In the foreword the authors explain that most works in this field deal with the laboratory testing of tubes. This book

Card 1/5

Techniques in Measuring (Cont.)

SOV/1761

deals with testing techniques for production purposes. Chapters 1 to 4 were written by Engineer M.M. Stepankov, Chapter 5 and Sections 8, 11, and 12 of Chapter 4 by Engineer V.V. Vinokurov. The authors thank Engineer L.D. Orabinskaya for the practical checking of some arrangements and for assistance in editing. There are 27 references, of which 22 are Soviet, 3 English, 1 German, and 1 Czech.

TABLE OF CONTENTS:

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Ch. 1. General Information on the Methods of Testing Receiver Amplifier Tubes	7
1. Preliminary remarks	7
2. Testing of tubes at the place of manufacture	9
3. General technical requirements of testing equipment	22
Ch. 2. Voltage Sources for Plates and Grids	31
1. Supply unit of testing apparatus	31

Card-2/5

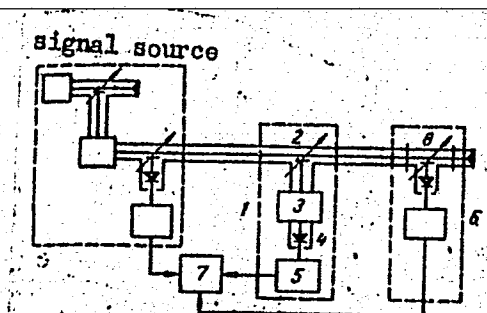


Fig. 1. 1- measurement channel; 2- attenuator; 3- traveling-wave tube being tested; 4- square-law detector; 5- amplifier, 6- control channel; 7- oscillograph; 8- linear passive four-pole electric network

JO
Card 2/2

KOL'NITSEV, S.M.; ALEKSEEV, V.N.; STEPAN'KOV, Yu.I.; TREKOVA, N.A.;
PERSHIN, L.F.

Prophylaxis and therapy in hypoxic states developing during
operations on the heart under anesthesia. Trudy I-go MMI 33:
403-408 '64. (MIRA 18:3)

GIGAURI, V.S.; KOLYUTSKAYA, C.D.; OVCHINNIKOV, G.S.; STEPAN'KOV, Yu.L.;
GEBEL', G.Ya.; NIKOLAYEVA-ROMBERG, M.I.

Use of the RO-1 apparatus in the clinic of the Scientific Research
Institute of Clinical and Experimental Surgery of the Ministry of
Public Health of the R.S.F.S.R. Report No.2. Nov. med. tekhn. no.3:
58-60 '65. (MIRA 19:1)

1. BELITSKIY, A. E.; STEPAN'KOVA, G. P.
2. USSR (600)
4. Stomach--Diseases
7. Treatment of gastric phlegmon, Sov. med., 16, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

PROUZA, Ludvik, dr., CSc.; STEPANKOVA, Marie

On the defects of the AP3M and AP4 analogue computers. Slaboproudý
obzor 24 no.9:524-526 S '63.

1. Tesla Pardubice, n.p., Vyzkumny a vyvojovy zavod, Opocinec.

ROMANOVSKY, A.; STEPANKOVA, Renata

Some observations on parabiotic newts. Folia biol 10 no.1:
54-58 '64.

1. Department of Experimental Zoology, Faculty of Science, Charles
University, Prague.

~~STEPANKOVA~~ STEPANKOVA, V.

CZECHOSLOVAKIA / Analytic Chemistry. Analysis of
Organic Substances.

E

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60716.

Author : Jiri Neumann, Zdenek Aunicky, Vlasta Stepankova.

Inst : -

Title : Quantitative Determination of Nitroacetophenone.

Orig Pub: Chem. prumysl, 1957, 7, No 10, 546-547.

Abstract: n- and o-nitroacetophenones (I) are determined quantitatively in an aqueous suspension dispersed in the presence of the emulsifier Nekal BX (II) at the action of iodine in alkaline medium, i.e., by a method based on the iodoform reaction of Lieben. 10 g of the sample is transferred into

Card 1/2

~~A~~ STĚPÁNKOVÁ, V.

Distr: 4E2c(j)/4E3d

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Quantitative estimation of *o*- and *p*-nitroethylbenzene and *o*- and *p*-acetophenone. Jiff Neumann, Vlasta Stěpánková and Zdeněk Aunický (Vysoká škola chem.-technol., Prague). Chem. průmysl 8(33), 244-6 (1959).—Chromic oxide in boiling glacial AcOH oxidizes *p*-nitroethylbenzene (I) to *p*-nitrobenzoic acid, while the ortho isomer does not react appreciably. Best yields (72% of theory) are obtained with 1:CrO₃:AcOH in a wt. ratio 1:5:50 and a 1-hr. reaction time. The *p*-nitrobenzoic acid crystallizes on dilg. the soln. with 2 vols. of water, while any ortho isomer remains in soln. The same procedure is followed for *o*- and *p*-nitroacetophenone, which can first be sepd. from the nitroethylbenzenes by distn. For the para isomer the yield is 82% of theory. H. Moravetz

Jef

STEPANKOVSKAYA, D. I.

USSR/Medicine - Dysentery

Mar 53

"The Diagnostic Significance of the Agglutination Reaction in Dysentery," Ye. I. Brutman, A. G. Benderskaya, D. I. Stepankovskaya, R. I. Raynerman, Odessa Inst of Epidemiol and Microbiol I. I. Mechnikov

"Zhur Mikrobiol, Epidemiol, i Imunobiol" No 3, pp 26-27

In carrying the agglutination in the case of children infected with Flexner bacilli, one must take into account the varying dynamics of the increase of antibodies. In the case of children, the reaction at a titer no lower than 1:200 must be regarded as diagnostic. In the case of adults, the reaction is less specific: a titer no lower than 1:400 should be regarded as significant.

PA 244129

STEPANKOVSKAYA, G.K. [Stepankovs'ka, H.K.], kand.med.nauk; GUSOVSKIY, Ya.M.
[Husovs'kyi, IA.M.], nauchnyy sotrudnik

Some causes of injuries to the cervix uteri during labor. Med.,
akush. i gin. 22 no.5:47-49 '60. (MIR 15:6)

1. Akusherskiy otdel (zav. - prof. S.P. Vinogradova [Vynohradova,
S.P.]) i ~~patogistologicheskaya~~ laboratoriya (zav. - nauchnyy
sotrudnik Ya.M. Gusovskiy [Husovs'kyi, IA.M.], konsul'tant -
prof. N.O. Maksimovich [Maksymovych, N.O.] Ukrainskogo nauchno-
issledovatel'skogo instituta okhrany materinstva i detstva im.
Geroya Sovetskogo Soyuza prof. P.M. Buyka (direktor - zasluzhennyy
vrach M.D. Burova, nauchnyy rukovoditel' - deystvitel'nyy chlen
AMN SSSR prof. A.P. Nikolayev).

(LABOR, COMPLICATED)
(UTERUS—WOUNDS AND INJURIES)

STEPANKOVSKA, G.K. [Stepankovska, G.K.], kand.med.nauk; FERDMAN, T.D.,
mladshiy nauchnyy sotrudnik.

Excretion of sex hormones in women in prolonged pregnancy.
Ped., akush. i gin. 25 no.148-50 '63. (MIRA 16:5)

1. Ukrains'kiy naukovo-doslidniy institut okhroni materinstva
i ditinstva (direktor-dotsent O.G.Pap [O.H.Pap]), naukoviy ke-
rivnik - prof. A.P.Nikolayev).
(HORMONES, SEX) (PREGNANCY, PROTRACTED)

VERKHATSKIY, Nikolay Poliyevktovich, prof.; STEFANKOVSKAYA, G.K.,
red.

[Prevention of premature aging in women] Preduprezhdenie
prezhdevremennogo starenia zhenshchin. Izd.3., perer. i
dop. Kiev, Zdorov'ia, 1967. 156 p. (MIRA 17:12)

PAP, Aleksandr Germanovich; SHKOL'NIK, Boris Iosifovich;
SOL'SKIY, Yakov Porfir'yevich; STEPANKOVSKAYA, G.K.,
red.

[Hygiene of the woman] Gigiena zhenshchiny. Kiev,
Zdorov'ia, 1964. 175 p. (MIRA 18:1)

STEPANKOVSKAYA, G.K.

Role of oxytocics and their enzymolytics in prolonged pregnancy.
Akush. i gin. 40 no.3:19-23 My-Je '64. (MIRA 18:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut okhrany
materinstva i detstva imeni Buyko (dir. - kand.med.nauk A.G.Pap;
nauchnyye konsul'tanty - prof. A.P.Nikolayev, doktor med.nauk
Ye.S.Stal'nenko, kand. biologicheskikh nauk Z.Ye.Babich), Kiyev.

NIKOLAYEV, A.P., otv. red.; SHKOL'NIK, B.I., kand. med. nauk, red.;
BAKSHEYEV, N.S., prof., red.; VINOGRADOVA, S.P., prof., red.;
GRISHCHENKO, I.I., prof., red.; KORNILOVA, A.I., kand. med.
nauk, red.; KONSTANTINOV, V.A., prof., red.; MEDYANIK, R.V.,
red.; PAP, A.G., kand. med. nauk, red.; PETERBURGSKIY, F.Ye.,
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G.S., kand. med. nauk, red.; TIMOSHENKO, L.V., dots., red.;
YANKELEVICH, Ye.Ya., prof., red.

[Transactions of the Third Congress of Obstetricians and
Cynecologists of the Ukrainian S.S.R.] Trudy III s"ezda
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1962. 370 p. (MIRA 17:5)

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1961. 2. Deystvitel'nyy chlen AMN SSSR (for Nikolayev).

STEPANKOVSKAYA, L. D., Cand Med Sci -- (diss) "Observations on inhalation, peroral and combined methods of immunization against ^{typhoid fever} ~~typhus abdominalis~~ (experimental data)." Odessa, 1957. 11 pp (Odessa State Med Inst im N. I. Pirogov), 200 copies (KL, 52-57, 112)

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STEPANKOVSKAYA, L.D. [Stepankivs'ka, L.D.], student biolog. fakul'teta;
SHAPOSHNIKOVA, L.A., nauchnyy rukovoditel', dots.

Chemical weed control in meadows and pastures. Pratsi Od.un.
Zbir.stud.rob. 149 no.5:201-203 '59. (MIRA 13:4)

1. Odesskiy gosudarstvennyy universitet.
(Weed control)

BARANOVSKIY, E.A. , STEPANO, V. Ye.

Profile of the sodium D_1 line and the gradient of the magnetic field of a sunspot [with summary in English]. Izv.Krym.astrofiz. obser. 21:180-189 '59. (MIRA 13:6)
(Sunspots)

3507

1/212/80/023/000/005/014
013 5501

3,1540 (also 1137)

AUTHOR: Stepansk, V. M.

TITLE: The motion of Ca^+ in the chromosphere in its connection with magnetic fields

SOURCE: Akademiya Nauk USSR. Krymskaya astrofizicheskaya observatoriya. Izvestiya, v. 23, Moscow, 1960, 184-211

TEXT: The author reports a study of the radial velocity field in flocculi and in the undisturbed chromosphere, and compares the results with the magnetic field at the level of the photosphere. The method employed to measure the radial velocities does not require the use of standard photospheric lines. Radial velocities, longitudinal magnetic fields and the brightness of the $\text{H}_\gamma\text{Ca}^+$ line were measured with the aid of magnetograph and radial velocity recorder of the Krymskaya astrofizicheskaya observatoriya (Crimean Astrophysical Observatory) as described previously. These three

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Card 1/5

The motion of Ca^+ ...

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quantities could be recorded simultaneously. The longitudinal magnetic field was determined from observations of the Fe λ 5250 line. Detailed charts are reproduced showing the radial velocity distributions for individual days and also in time sequences. The chromosphere is reported to contain extensive regions with ascending and descending gas. These regions have linear dimensions of up to 20,000 km. The overall motion appears to be made up of the motion of large scale elements with linear dimensions of 1,000 to 20,000 km and average lifetimes of about 7 hours. The average total velocity of the ascending and descending elements is 3.6 km/sec. In undisturbed regions of the chromosphere above weak photospheric magnetic fields ($H < 7.5$ gauss) the total mass of descending gas is equal to the total mass of the ascending gas. The average velocity of ascent is - 0.96 km/sec and the average velocity of descent is 1.25 km/sec. The area over which upward motion of gas takes place is 56% of the total area of the undisturbed region. In flocculi, the area over which the descent of the gas takes place is 79% of the total area of the flocculi. The velocity of ascent

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The motion of Ca^+ ...

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is equal to the velocity of ascent in the undisturbed region (+1.7 km/sec). In regions containing particularly bright flocculi, and also over the entire floccular area, descending gas motion predominates (+2.3 km/sec) while the average velocity of ascending motion is -1.5 km/sec. The velocity of ascent and descent increases with increasing brightness of the flocculi. Over the entire floccular region the downward moving mass exceeds the upward moving mass by a factor of 4. It may be that this mass excess is compensated by the ejection of matter during localized non-stationary process (flares, 'moustaches', ejections). Floccular regions are as a rule surrounded by ascending gas. If the flocculi are located over magnetic fields of varying polarity, then a change in the polarity is accompanied by a change in the direction of motion and the descent of the gas occurs over large magnetic fields. If the flocculi are located above unipolar magnetic fields, then as a rule only descending motion is observed. Near strong magnetic fields and in the region of large field gradients, the zero velocity line is near or coincides with the line of zero magnetic fields. This phenomenon, and the alternation in the sign of the velocity with varying pola-

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Card 3/5

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D218/0701The motion of Ca^+ ...

rity of the field, appears to suggest that the gas motion takes place along tubes of force. As a rule two lines of zero velocity are found between two very distant regions with strong magnetic fields. This indicates that the effect of the magnetic field on the motion of the gas in the interval between two regions with large magnetic fields is not very considerable. Largest velocities of ascent and descent are observed in the presence of large magnetic field gradients, and also above regions with a weak magnetic field ($H < 7.5$ gauss). The velocity distribution function is asymmetric. Larger velocities are more frequently encountered in descending gas. There are relative maxima at $v = +1.25$ and $v = -0.9$ km/sec. The presence of a magnetic field has a considerable effect on the form of the velocity distribution function. The top of the distribution becomes more flat and there is a poorly defined maximum at $v = 1$ km/sec. The entire distribution function appears to be shifted towards the larger velocities. Velocities greater than 1.2 km/sec are encountered two or three times more frequently in the presence of a magnetic field than in the absence of the field.

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Card 4/5

The motion of Ca^+ ...

S/712/50/023/000/005/014
D218/D301

Acknowledgments are expressed to Corresponding Member of the AS USSR A. B. Severnyy for discussions and to N. S. Nikulin and A. G. Garunov for assistance in the experiments and in the analysis. There are 5 tables, 16 figures and 22 references: 15 Soviet-bloc and 9 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: H. H. Plaskett, M. N., 114, 251, 1954; A. B. Hart, M. N., 114, 17, 1954; L. Spitzer Jr., M. N., 110, 3, 216, 1950; G. E. Hale, S. B. Nicholson, Magnetic observations of Sunspots, 1917-1926, 1, 6, 1958.

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EXCERPTA MEDICA Sec.9 Vol.11/11 Surgery Nov 57

STEPANOK E.G.

5772. STEPANOK E.G. Ukrain. Exper. Inst. for Eye Dis., Filatov, Odessa, USSR. Contribution to the question of effect of tissue therapy on scar tissue (Russian text) UCHENYE ZAPISKI UKRAINSKOGO EKSPERIMENTALNOGO INSTITITA GLAZNYKH BOLEZNEI 1955, 3 (43-50)

Experiments were carried out on 40 rabbits. Burns were produced with concentrated hydrochloric acid on the skin of the back. Rabbits with burns of 2nd and 3rd degree were divided equally into 2 groups. In one group each rabbit received daily injections of 0.5 ml. of placental extract, altogether 30 injections; in young rabbits (6 months old) the burns healed in 12-19 days, in rabbits (1 year old) 13-20 days. In the control group without tissue therapy, healing of the burns in young rabbits took from 21-30 days, in the older ones, from 16-38 days. Histologically the scar tissue formed in rabbits with tissue treatment differed entirely from the scar tissue in rabbits without tissue therapy. Study of the scar tissue in the control and experimental groups was carried out at intervals of 14 days, 3, 4, 5 and 6 months. Parallel with the above, experiments were carried out on 30 rabbits by implanting pulverized scar tissue subcutaneously and also in the eyelid, in the quantity of 200 mg. One group of rabbits received injections of placental extracts at a dosage of 0.5 ml. (30 injections), a 2nd group serving as control. Histological study of an excised part of tissue with the implant, has established that the implanted tissue in the rabbits re-

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CONT.

ceiving tissue therapy was absorbed earlier and more rapidly than in the control group.

STEPANOK, Ye. G., mladshiy nauchnyy sotrudnik

Restoration of the innervation of transplanted corneal tissue in
experimental cataracts in rabbits. Uch. zap. UEIGB 4:77-90 '58.

(MIRA 12:6)

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