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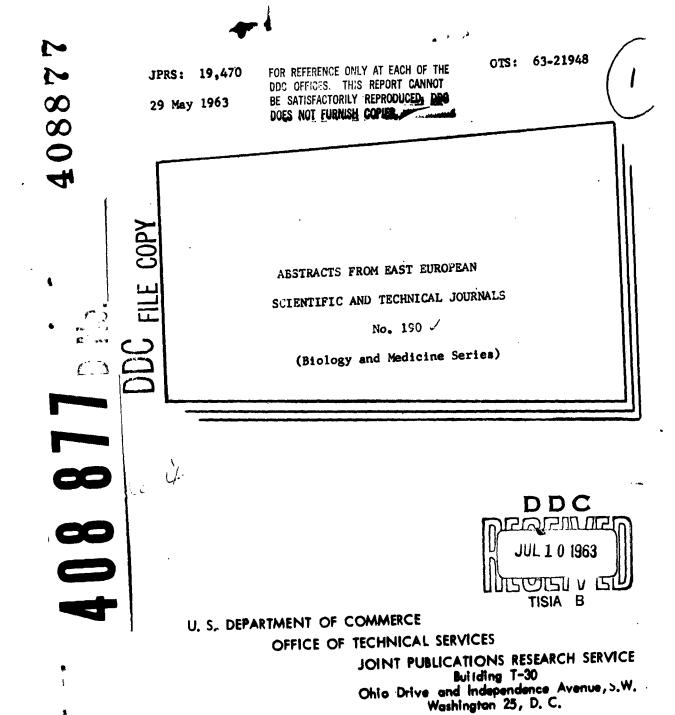
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ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND TECHNICAL JOURNALS

No. 190

- Biology and Medicine Series -

This report consists of abstracts of articles from the East European scientific and technical journals listed in the table of contents below.

BULCARIA Eksperimentalna Meditsina i Morfologiya, Sofia, Vol 1, Mo 3, 1962 Suvremenna Meditsina, Sofia, Vol 13, No 12, 1962 FOLAND Medyeyna Oswiedczalna i Mikrobiologia, Warnaw, Vol 15, No 1, 53 TUGOSLAVIA Arhiv za Fermaciju, Belgrada, Vol 12, No 5, 1962 19

L. HAKOV and K. KIROV, Department of General Biology (Katedrata pe obshcha biologiya) Head (rukovoditel) Prof R. POPIVANOV, VMI, Sofia.

"Studies of the Sex Chromatin in Realthy Individuals."

Sofia, Eksperimentalna Meditaina i Morfologiya, Vol 1, No 3, 1962; pp 7-11.

Abstract [English summary modified]: Studies of 100 buccal mucosal cells from each of 300 healthy Bulgarian men aged between 18 and 49 revealed presence of sex chromatin in 0 to 3% (average 0.19%); in a comparable group of 300 women, 9 to 32% (average 17.44%-5). Graph, 3 cytograms, 3 tables; 3 Soviet, 1 bulgarian and 11 Western references.

1/1

BULGARIA

Ier. STOICHKOV and Ch. NIKOLOV, Institute for Scientific Research in Mematology and Transfusion (Neuchno-issledovatelskii institut po hematologiia i kruvoprelivane) Director (direktor) V. SERAFIMOV-DIMITROV, Sofia.

"Changes in Phagocytic Activity of Leukocytes Following Exchange Transfusion with Blood-Dextran Mixture."

Sofia, Eksperimentalna Meditsina i Morfologiya, Vol 1, No 3, 1962; pp 11-16.

Abstract [English summary modified]: In 6 dogs, excenguinotransfusion with donor blood - dextran mixture; phagocytability studied of injected killed Staphylococcus aureus at 0, 6h, and 1, 3, 6, 10, 15, 20 and 30 days thereafter. Phagocytic activity was lowest 6 days after the transfusion, nearly normal 30 days after it. Graph, 2 photomicrographs, 2 tables; 4 Soviet, 2 Bulgarian and 3 Western references.

Kr. BERCHFV, Department of Pathological Anatomy (Katedra po patologicalma anatomiya) Re. d (rukovoditel) Prof B. KURDZHIEV, VMI, Sofia.

PHiffeer of Multivitamin Complex on the Pathological Changes Bue to Chlortetracycline."

Sofia, Eksperimentalna Meditsina i Morfologiya, Vol 1, No 3, 1962; pr 16-21.

Abstract [Sings the summary modified]: Rabbits treated with chlortetracycline ("Biomygis") 20 mg./Kg./day plus multivitamin complex for 10 days had charges in intestinal bacteria and viscera same as the rabbits treated with ablortetracycline alone, indicating that these changes are not primarily due to hypovitaminosis. Three photomicrographs, 1 Soviet reference.

. 1/1

BULGARIA

Ta. Froncist, Department of Frammacology (Katedra po farmakologiya) Head inof I. Fikolov, VMI, Solic.

*Biochamical Hechanism of the antidotal Effect of Potassium Ethylman-thogenate."

Sofia, Fkspor mentalna Meditsima i Morfologiya, Vol 1, No 3, 1962; pr 21-27.

Abstract [knglish summary modified]: Warburg respirometray of rat liver tissue in the presence of Salyrgan (organic Mg compound): 0.00164 M depresses tissue respiration 70 to 90%; this is completely antagonized by potassium ethylkunthogenate in a 10:1 molar ratio to the Mg compound. Graph, 3 tables; 3 Soviet, 2 Bulgarian, 7 Western references.

BULGARTA

As. TOMKOV, G. SHEIKOVA and D. STRAKHILOV, NIEM [Nauchen institut po epidemiologiya i microbiologiya, Scientific Institute for Epidemiology and Microbiology,] and VMR [Abbreviation not identified] Military Hospital (Voenna bolnitsa pri VMR); Director (direktor) of NIEM; Vl. KALAIDZHIEV; Head (nachalnik) of Military Hospital T. IVANOV.

"Studies With Penicillin-Resistant Staphylococci."

Sofia, Eksperimentalna Meditsina i Morfologiya, Vol 1, No 3, 1962; pp 27-31.

Abstract [English summary modified]: Study of 53 penicillin-resistant and 28 -sensitive Staph, aureus strains, all clinical coagulase-positive isolates: type of hemolysis, fibrinolysis, phosphatase, catalase, mannite, gelatin:, egg yolk, pigment formation, dehydrogenase, necrotising property. Results lead to conclusion that penicillin resistance acquisition is correlated with complex changes of the ensymmetic activity as well as pathogenicity regardless of the presence of the antibioxic. Three tables; 2 Bulgarian and 3 Western ref's.

BULGARIA

G.K. SAEV and K. Iv. MARKOV, Department of Biochemistry (Katedia pobiokhimiya) Head (rukovoditel) B. KOICHEV; and Department of Microbiology and Virology (Katedra po mikrobiologiya i virusologiya) Head Prof Sv. BURDAROV, VMI, Sofia.

"Electrophogenic Studies on Bacteria. Part 5. Correlation Between Electrokinetic Potential and Acid Agglutination."

Sofia, Eksperimentalus Meditsina i Morfologiya, Vol 1, No 3, 1962; pp 31-36.

Abstract [English summary modified]: Comparison of the isoelectric point determined by acid agglutination (i.e. pH of maximal agglutination) and electrophoresis (pH of null electrokinetic potential) in 60 strains of B. anthracis and unspecified number of Staphylococcus aureus strains. Among the latter species, penicillin-resistant strains are agglutinable over a wide pH range, presumed due to loss of hydrophilic properties. Both tests are necessary to determine isoelectric point of bacterial surface. Seventeen graphs; 5 Western, 2 Soviet, 3 Bulgarian ref's.

R. OVCHAROV, Department of Pharmacology (Entedra po farmakologiya)
Head (rukovoditel) Prof V. PETKOV, Institute for Graduate Medical
Studies (ISUL), Sofia.

"Pharmacologic Studies of Some Tertiary Morpholimeethyl Desivatives of the Barbituri Acid."

Sofia, Eksperimentalna Meditaina i Merfologiya, Vol 1, No 3, 1962; pp 36-42.

Abstract [English summery modified]: Pharmacologic comparison of T. (3-morpholinosthyl)barbital, II. (3-morpholinosthyl)phanobarbital, III. (1,3-di-morpholinosthyl)phanobarbital and IV. (6-desoxy, 3-morpholinosthyl)phanobarbital with barbital and phanobarbital in mice, rate, cate, rabbit ileal strips. The 4 new derivatives are not hypnotic, their toxicity is lower; they have some atropine- and papaverine-like affect. Four hymograms, 4 structures; 2 Bulgarian and 2 German references.

1/1

BULGARIA

G. KOTEV and A. ANDREEV, Military Medical Academy (Visshi voennomeditsinskii institut) Chief (nachalnik) Docent A. MALEEV.

"Effect of Organic Phosphates on the Course and Outcome of the Acute Radiation Disease."

Sofia, Eksperimentalna Meditains i Morfologiya, Vol 1, No 3, 1962; pp 42-47.

Abstract [English summary medified]: Whereas all 10 dogs irradiated with a single dose of 600 r died within 2 - 3 weeks, only 2 died of the 15 which received tabun oil solution 10% of LD₁₀₀ (0.05 mg./Kg.) daily s.c. for 10 days starting 15 minutes after irradiation. Also, only 2 died of the 5 receiving 5% of LD₁₀₀ for 15 days. Leukopenia in tabun-treated dogs was hardly less intense than in controls at 8 to 21 day post-irradiation; hemoglobin did ramein higher all along; cholinesterase was low as expected from tabun but symptoms possibly less. Presumably organic phosphates and radiation partly involve the same ensymatic mechanism but in an antagonistic fashion. Table, 4. graphs; 3 Soviet, 1 Bulgarian, 1 British reference.

A. TSANEV and G. DASHEV, Department of Endocrinology and Metabolic Diseases (Katedra po endokrinologiya i bolesti na obmyanata) head (rukovoditel) Frof Iv. PENCHEV [presumably VMI Sofia.]

"Serum Protein Electrophoresis in Experimental Hyper- and Hypothyroi-

Sofia, Ekspecimentales Meditains i Morfologiya, Vol 1, No 3, 1962; pp 48-51.

Abstract [English summary modified]: Serum electrophoretic and thyroid histologic studies in 3 groups of 10 rate each: a. treated parenterally with thyroxine daily 100 gamma for 25 days; b. methylthiouracil ("Alkiron") 10% mg./day, and c. controls. After 25 days, determination of total serum proteins; albumin; and alpha, beta and gamma globulin. In the 3 groups, these were respectively: a. 34.6; 50.2; 5.8, 12.6, 30.4. - b. 24.5; 50.1; 8.9, 18.6. 22.61. - c. 100; 47; 6.8, 12.6, and 36.41 (all figures percentage.) Histologic patterns in the thyroxine and methylthiouracil groups were as anticipated and reported in the literature. No discussion of the presumed significance of the

Sofia, Eksperimentalna Meditnina i Monfologiya, Vol 1, No 3, 1962; pp 48-51.

findings reported. Two photomicrographs; 3 electrophoresis patterns; 2 Western references.

T. TASHCHEV, V. GRUNCHAROV and Iv. TSCHEV, Department of Gastroenterolegy and Distation (Katadra po gastroenterologiya i distatika) Head (zukovoditel) Frof T. TASHCHEV, and Department of Pharmacology of ISUL (Katadra po farmakologiya pri ISUL), Head Prof V. PRIMOV

"Clinical and Experimental Studies with the New Bulgarian Preparation Biliregulin." -

Sofia, Suvremenna Meditsina, Vol 13, No 12, 1962, pp 3-10.

Abstract [English summary modified]: Studies in rate and dogs, and in 38 patients, of "Biliragulin" choleratic preparation containing extractives of strawberry, cabbage, black turnips "lipocaine" (lipotropic "hormone" from pancreas), dehydrochelic acid, gaucose and starch. Generally doubles bile secretion upon peroral administration, action lases for 2 hours. Table, 5 diagrams; 6 Bulgerian (incl. thesis) 1 Soviet unpublished, 1 Geoch, 2 Western references.

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BULGARIA

V. IONCHEV, Department of Psychiatry (Katadra po psikhiatriya) Head Prof K. CHOLAKOV, VMI "I.P. Pavlov", Plovdiv.

*School, Homework and Incidence of Neurosis, "

Sofia, Suvremenna Meditaina, Vol 13, No 12, 1962; pp 11-16,

Abstract [English cummary modified]: Questionnaire analyses and individual examinations of 1806 Ploydiv grammer and high school students in 1961 indicated a correlation between neurotic traits and length of time required to do homework. Both parameters increased in higher grades. There is vicious circle - more homework breeds more fatigue, decreasing ability to finish homework. Table, 13 Bulgarian, 9 Soviet and 3 Western references.

R. TOKIN, Department of Obstatrics and Gynacology (Katedra po akusherstvo i rinekologiya) Head (rukovoditel) Prof I. SHCHURGALLY VMI, Sofia.

"Infertility Due to Extragenital Tuberculosis During Puberty."

Sofie, Suvremenua Meditsina, Vol 13, No 12, 1962; pp 16-21.

Abstract [Inglish summary modified]: Analysis of 2500 case reports of visitors to the infertility clinic 1958-1961: 585 of these women had had tuberculosis of some type during their youth. Comprehensive review of causes of sterility as sequelar of tubercular processes by analysis of primary and secondary causes. Three Bulgarian, one Sovice and 1 French reference.

1/1

BULGARILL

St. RINGLOV, A justment of Propadousies of Internal Medicine (Katedra po projectovnika na votreshor belesti) Fead Prof Iv. 10kKOV, WI, Sofia.

"Pleural Polucions in Fatients with deart Disease."

Sofia, Suwremenne Meditasta, V.1 13, No 12, 1962; pp 21-2(.

Abstract [hoglish summary modified]: Analysis of 500 cardiovascular deaths and or 100 rations with heart dicease; correlation or pleurisy types found. In overopsy cases, 20% had hydrothorax, 6.3% verofibrinous pleurism, 24% pleural adhesions. Most of this occurs by way of pulmonery infarct. Incidence among clinic patients is much lower. Tube coulosic is rire in all. Circulast, 4 Bulgarian, 4 Soviet and 8 Western references.

D. KHUBANOVA, D. STOICHEVA and V. PENCHEV, Central Rest Home of the Tasps (Obedineniya pochiven dom na Tasps) [Abbreviation not identified; apparently a labor union] Head Physician (glaven lekar) D. STOICHEV, Bankya.

"Treatment of Hypertension at the Central Rest Home TsSPS in Bankya."

Sofia, Suvremenna Meditsina, Vol 13, No 12, 1962; pp 27-31.

Abstract [English summary modified] Description of the conditions of treatment: 2 patients per room, sleep 9 - 10 hours per night, good routine. 100 patients treated with baths, diet, massage, physiotherapeutic procedures; drugs (sedatives, rarely hypnotics) in 5. Excellent results in 23, good in 39, fair in 20, none in 18. Discussion of stage of disease. Most are intellectual workers, not manual. Eleven Bulgarian references.

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BULGARIA

I. TEMKOV and Zh. DASKALOV, Department of Psychiatry (Katedra popsikhiatriya) Head Prof G. UZUNOV, VMI Sofia.

"Haloperidol in the Treatment of Manic States."

Sofia, Suvrey anna Meditaina, Vol 13, No 12, 1962; pp 31-36.

Abstract [Regulah summary modified]: Haloperidol in 10 female and 5 male patient: in the manic phase. Generally effect was faster than with chlorpromazine but relapses were correspondingly rapid too. Severe parkinsonian side effect in 8 could be counteracted with trihexyphenidyl. Some decrease in blood pressure (to 95/65 and 95/70) in 2. Thirry references: 1 Polish, rest Western, mostly Belgian.

BULGARTA

V. HIKHAILOV, Regional Oncologic Dispensary (Okrushen onkologichen dispenser) Head Physician (glaven lekar) N. KOLEV, Burgas.

"Preventive Oncologic Examinations in Women Above Thirty."

Sofia, Suvremenna Meditsina, Vol 13, No 12, 1962; pp 36-39.

Abstract [English summary modified]: Data are given of the activity of this unit 1956 - 1961. About 50,000 women, or about 70% of the population in this territory, are examined each year. The incidence of cancer and pre-cancerous changes found has been increasing, from 5 and 761 among 48,720 momen seen in 1956 to 28 and 2092 among the 53,751 seen in 1961. Procedural details and difficulties are enumerated and discussed. Table.

11/1.

BULGARIA

D. MATLIEV, [Affiliation not given.]

"Importance of First and Second Phase of ESR with Vertical and Sloping Test Tubes."

Sofia, Suvremente Meditaina, Vol 13, No 12, 1962; pp 39-42.

Abstract [Envlish summary modified]: Analysis of the details of the course of the arythrocyte sedim ntation rate process, with tables showing breakdown in 100 patients with inflammatory diseases. If the ESR test tube is kept in a sloping position, the diagnostic evaluation of exact stage as well as degree of pathologic process is facilitated. Two tables, 3 Soviet, 3 Bulgarian (incl. thesis) and 4 Western references.

P. BOYANOV and M. TSEKOV, Institute for Emergency Medical Aid (Institut as bursa meditsinska pomoshch) "N.I. Pirogov", Chief Physician (glaven lekar) Khr. ZDRAVKOV [Sofia.]

"Hepatic Syndrome Due to an Acute Allergic Process."

Sofia, Suvremenna Meditsina, Vol 13, No 12, 1962; pp 43-44.

Abstract [Inglish summary modified]: Description of syndroms of hepatitis with full-blown jaundice in man of 27 following allergic rash and fever attributed to ingestion of fried fish. Clinical details of the rapid course of multisymptomatic condition ending in uneventful recovery. Three Bulgarian and 1 Western reference.

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BULGARIA

V. KCLARSKI, City Hospital (Gradska bolnitsa) Head Physician D. VASILEV, Estevgrad.

"Acute Polsoning with DDT."

Sofin, Surremenna Meditsina, Vol 13, No 12, 1962; pp 45-46.

Abstract [English summary modified]: Two workers aged 58 and 67 respectively in error used DDT powder (estimated 30 to 45 Gm. of a 50% DDT preparation, i.e. 7.5 to 11.5 Gm. pure DDT per person) instead of flour for sauce thickener in frying canned food: rapid severe symmeome mainly gastrointestinal yielded to symptomatic treatment with analytics; uneventful recovery in a few days. One Soviet and 4 WEstern references.

M. POPOV, Chief (Zaveshdashch) Pediatric Department (detsko otdelenia) City Hospital (Gradska bolnitsa) Corna Oryakhovitsa.

"Poisoning with Apricot Kernels."

Sofia, Suvremenna Meditsina, Vol 13, No 12, 1962; pp 47-48.

Abstract [English summary modified]: Two cases of cyanide poisoning due to ingestion of apricot kernels in small children aged 4 and 1.5 years respectively are reported and discussed. The younger child could not be saved, probably because of failure to try and induce vomiting immediately when found.

1/1

BULGARIA

Em. A. STOYANDY, Department of Surgery and Urology (Katedra po khirurgiches: bolesti s urologiya) Head (rukovoditel) Prof G. POPOV [presumably MI Sofia.]

"The Problem of Reanimation."

Sofia, Suvremenna Meditaina, Vol 13, No 12, 1962; pp 49-56.

Abstract [English summary modified]: An authoritative, pedagogic review of newer findings and basic principles in resuscitation procedures: mouth-to-mouth breathing, perenteral stimulants and analeptics; means to strengthen the appropriate vital functions as a harmonious whole. Three photographs, 2 diagrams; 6 Bulgarian, 2 Soviet, 8 Czech, 26 Western references.

A. N. TSANEV, Department of Endocrinology and Metabolic Discases (Katedra po endokrinologiya i bolesti na obmyanata) Head (rukovodital) Prof Iv. PENCHEV [WHI Sofia?]

Current Views of the Role of the Pineal Gland.

Sofia, Surremenna Meditaina, Vol 13, No:12, 1962; pp 56-59.

Abstract: A general review of the literature of the epiphyses! extracts, mostly old data: antigonadotropic, antithyroid, hemostatic principles; role in carbohydrate metabolism, aldosterone secretion. Three Western and 2 Rumanian references.

OSOWIECKI, Henryk and PAKULA, Roman, Department of Mierobiology and Hygiene (Zaklad Mikrobiologii i Higieny), AM [Akademia Medyosna, Medical Academy] in Warsaw (Director: Prof. Dr. R. PAKULA)

"Studies on Staphylococcal Descryribonuclease. IV. Purification and Some Properties of Staphylococcal DNA-ase."

Warsaw, Msdycyna Doswiadczalna i Mikrobiologia, Vol 15.

No 1. 63, pp 1-11.

Abstract: [Authors' English summary] Several methods were employed in the concentration of staphylococcal DNA-ase: adsorption on various adsorbents, elution, and precipitation with lead acetate and trichloroacetic acid. The last, followed by precipitation with acetone, appeared best for the preparation and purification of the DNA-ase. The preparations are heat-resistant and are activated by Ca++. Although it does not act on RNA, it appears to have some properties in common with RNA-ase. The 7 references contain 3 Polish, 3 English, and one French source.

1/1

POLAND

RABCZYNSKA, Felicja, KUDELSKI, Zygmunt, and MEISLOWA, Paula, Department for Testing Sera and Vaccines (Zaklad Sadania Surowic i Szczepionek), PZH [Panstwowy Zaklad Higieny, State Institute of Hygiene] in Warsaw (Director: Prof. Dr. H. MEISEL)

"Reactivity of Mice Upon Immunisation and Infection with Typhoid Bacilli, II. Serologic Reactions Following Use of Live or Killed Bacteria, or Their Extracts."

Warsaw, Medycyna Doswiadogalna i Mikrobiologia, Vol 15, No 1, 63, pp 13-21.

Abstract: [Authors' English summary modified] The level of H, O, and Vi agglutinating antibodies was studied in infected and non-infected, immunized and non-immunized mice. Agglutinin formation was noted only in mice injected with live baccili, stronger for non-immunized than for immunized mice, with highest tires obtained with the H, and lesser with the C and Vi antigens. There was no difference whether the bacilli were introduced in saline or symogen medium, and high agglutination maintained only while they were present. One each Polish, French, and Scandinavian refs.

STEMPIEN, Ryssard, Clinic of Infectious Diseases (Klinika Chorob Takasnych), AN [Akademia Medycana, Medical Academy] in Lodz (Director: Prof. Dr. J. CHRZANOWSKI)

"Studies on Experimental S. Typhi Nurium Infection in Nice. Warsaw, <u>Medycyna Doswiadogalna i Mikrobiologie</u> Vol 15, No 1, 53, pp 23-28.

Abstract: [Author's English summary] Mice were infected with various doses of S. typhi murium bacilli. The dynamics of the resulting bacteremia was observed, as well as the macro- and microscopic lesions in the spleen and liver of the experimental animals. It could be shown that the infection (strain PZH-295) was subscute or chronic. A correlation was also found with the reactivity of the reticulo-endothelial system which could be checked by microscopic examination of the spleen and liver tissues. Of the 3 references, one is German, 2 French, and 5 English.

1/1

POLAND

FRYGIN, Cseslawa, Bacteriology Department (Zaklad Bakteriologii), State Institute of Hyziene (Panstwowy Zaklad Higieny) in Warsaw (Director: Prof. Dr. B. WOJCIBCHOWSKI)

"Electrophoretic, Immunoelectrophoretic, and Chromatographic Analysis of the Soluble Antigen of Rickettsia Prowazeki."

Warsaw, Medycyna Dogwiadogalna i Mikrobiologia, Vol 15, No 1, 53, pp 29-42.

Abstract: [Author's Anglish summary modified] Phoretic analyses of the soluble antigen revealed a slow-migrating but imminologically active, and fast-migrating but inactive fractions, differing in total nitrogen and phosphorus content. Spectrophotometric and chromatographic analyses revealed no presence of nucleic acid, the presence and identity of at least 17 amino-acids, and the identities of sugars contained in the isolated polysaccharides. There are a few Polish and German references among the predominanty Western sources cited.

1 20 LAND

TUROWSKI, Cabriel, Flant for the Harufacture of Sera and Vaccines (by two rate Surowic i Sucseptence) in Krakew.

"Influence of Time of Growth on the Antigenic Properties and Yield of Eczdetrila Fertussis."

Warsaw, Medroyna Dossiadosalna i Mikrobiologia, Vol 15, No 1, 63, pp 43-46.

Abstract: [Author's Anglish summary] B. pertussis suspensions from 1-day outtures showed the highest antigenic populars from 1-day outtures showed the highest antigenic popularism; and dropped with each day of further growth. Yield of the cultures checked on particular days of growth was seed with the strains. Using a modified solid Johan-bhouler medium with addition of charcoal, best gi with was found at 46 hears, and could be prelonged up to 7% hours for antigenically "strong" but pourly province straics. The existence of a correlation between the rime of growth and antigenic proporties as well as of yield of 8. jectussis has coss confirmed by singuistical mothers. But are folich.

POLARD

RYKOWSKE, Fanata and SASTOKI, Leon, Virology Department (Zaklad Washedis), PZY [Panetwowy Zaklad Higieny, State Institute of Hygiene] in warsus (Piterbors Prof. Dr. F. PRZESMYCKI).

"The Gamma-Inhibitor of Normal Horse Sorum, II. Protective Proposition of the Sorum and Its Practions Against Infection of Mice and Tassus Culimbes with Singapore Strain of Influenza Miras."

Walnew, nedyoyna Doswiedonaina i Microbialogia, vol 15, No 1, 52 pp 47-54.

Absolute [Anthorn | Paglish summary modified] Anthors conlimed the findings of Cohan and Belyavin that herse serum process mice against A. Singapore strain of Auflianus virus and the sed the particularly strong protection is afforded by the at the globulin fractions of the serum obtained either by procititation with Cog gas or by paper electrophoresis. when the had in CEF manolayers, no difference in protective properties of the substances was found, and authors assume that one; minute amounts of the inhibitor are required for protecting the tissue cultures. 2 Polish and 4 English refs.

SAMICKI, Leen and RYKOWSKA, Renata, Virelegy Department (Eaklad William), PEN [Panetwewy Raklad Higieny, State Institute of Hygiene] in Warsaw (Director: Pref. Dr. F. PREESNYCKI).

"The Guines rig and White Rat Serum Inhibitors as a Possible Factor of Natural Resistance of these Animals to Infection with Cortain Strains of Influence Virus."

Warsaw, Haryeyna Deswiadosalma i Mikrobiologia, Vol 15, No 1, 63, pp 33-63.

Abstract: [As there' English summary medified] As there demenstrated that like the horse, guinea pigs and white rate are immune from birth to influence viruses, showing specific (HIT) antibedies and thermestable inhibitors in the serum. (Exceptions are Singapere strain for guinea pigs and influence C for rate). Preliminary investigations suggest that inhibitors reach respiratory epithelium of lung from the blood and neutralize the virus particles sensitive to them, as evidenced by the disappearance of both factors from the lung tissue. Investigations are being continued. 4 of the LIT references are Eastern bloc.

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POLAND

LARSKI, Maislaw, Wister Institute, Philadelpaia

"Intratyple Serodifferentiation Test (IST) of Polic Viruses in He-La 1611 Monolayers, Proliminary Report."

Warsaw, Hodycyna Deswiadosalna i Mikrebielegia, Vol 15, No 1, 63, pp 65-68.

Abstract: [Anther's English summary] Application of Mo-La cells for the IST is very advantageous because it prevides better uniformity of test conditions. Beading of results, especially of the plaque-diameter is easier and more accurate than in menkey kidney cells. 7 strains of Type 1 Polic Virus were tested, and their antigenic relationship with the protetype strain checked. All the 11 refrences are in the English language.

MIRROWD WSKI, Pletr, BARROWELA, Ronata, and FONDERG, Menika, Department of General Chemistry (Saklad Chemii Ogelnej), M. [Akademia Nedyeana, Nedical Academy] in Varnav.

"Respiration of Stroptomyces Aureofacions Buring Sumberged Formentation."

Warsaw, Mairoyna Borwindosalma i Mikrobiologis, Vol 15, No 1, 63, pp 69-75.

Abstract: [Anthors' Inglish summary modified] Procedure, suitable for both experimental work and tank fermentation, is described for determining the respiration of X-66 strain of S. auresfacions (COg absorbed in barium hydroxide), Gern steep or a mixture containing amine acids, sucrese, and mineral salts were used as medium. Course and intensity of respiration found to depend on type of medium ad growth phase, the curve showing 2 or 3 characteristic maxima. A curve of 2 centined cultures, one 12-hrs elder than the other, resembled the curve obtained by superimposing ourses from two outtures chifted by a half-phase and had no maxima. The 17 references are about equally divided between East and Vest.

POLAND

OBOJSKA, Krystyna and OSTROVSKA, Banuta, Biological Antibiotic Control Laboratory (Precounts Melogicanej Kontroli Antybiotykos), Brug Institute (Instytut Lebow) in Vareaw

"Separation and Totting of Biologically Active Substances From Hiztures of Chieramphonical and Ozytetracycline."

Warsen, Medrersa Bestladesalsa i Hikrobiologia, Vol 15, No 1, 63, pp 77-03.

Abstract: [Authors' English summary modified] conditions and procedures are given for the extraction and asparation of chloramphonical and exystetracycline-hydrochloride from capsules containing both, and for the determination of their purity and percentage compositions. Anthors uses strains of Sercina lutes 9341 ATOS and B. corous 8145 to determine the amount of the 2 antibiotics and discuss the problems connected with combining chloramphonical with annihilation of the tetracycline group, and with conditions of extracting and testing the antibiotics. Of the 26 references, 5 are Polish, and the others Vectors.

DESPERAK-WACIAKEK, Anna, JAKINOWSKA, Krystyna, JAKOWYEC, Mieczyslaw, KRYSICKA-DOCZKAL, Halina, PAVLIKOVSKI, Locsek, and VENULET, Jan, Department of Pharmacology (Sakles Farmacologi), Drug Institute (Instytut Lekew) in Warsaw (Director: Docent, Dr. J. VENULET)

"Chemotherapeutic and Pharmacologic Properties of Sedium Salts of M-Aminosalicylic Acid."

Warsaw, Medyeyna Deswiadczalna i Nikrobielegia, Vel 15, No 1, 63, pp 85-90.

Abstract: [Anthors' English summary] Investigations in vitro and in vivo revealed merely a weak action of the sedium salts of 5-aminesalicylic acid (NAS) upon tubercle bacilli, as well as en experimental tuberculesis in laboratery animals. When tested in vitro, NAS was similar in action but weaker than PAS. Both derivatives are less offective than isonicotinic acid hydraelde or Streptemycin. The toxicity of NAS is slightly nigher than that of PAS preparations. All 6 references are by Polish Authors (in 1 German, 1 French, and the rest in Polish publications or unpublished).

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POLAND

HOFFMANN, Hogdan, KAZANOWSKA, Wanda, KILCZBWSKI, Waldemar, and KRACH, Jadwiga, Clinic of Bermatology (Klinika Bermatologiczna), Clinic of Obstatrius and Gynecology (Klinika Polezniatwa i Cherob Kobiecych), and the Department of Hygiene (Zaklad Higieny) of the AM [Akademia Nedycana, Medical Academy in Bialystok.

"Serological Diagnosis of Trichemenas Infection."

Warsaw, Medyeyna Doswiadogalna i Nikrebiologia, Vol 15, No 1, 63, pp 91-99.

Abstract: [Authors' English summary medified] Using the CF test with Trichimonas antigen on human sera, the authors found the test specific and sensitive, and encouraging for further development of serological methods for diagnosis of this disease. They give muterials and precedure, and a statistical analysis of their findings. Of the 13 references, 2 are Polish, 4 are German, and 7 are English.

YUGOSLAVIA

Prof Dr M. DANILOVIC [Affiliation not given]

"Professor Dr. Mr. Ph. Sinisa Djaja."

Belgrade, Arhiv sa Farmesiju, Vol 12, No 5, 1962; pp 297-300.

Abstract: Biography - obituary of this pioneering Serbian medicinal chemist and toxicologisu, 1887-1962; studied in Graz and Paris, wrote several textbooks, directed department of galenical pharmacy at the University of Belgrade School of Pharmacy. Portrait.

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YUGOSLAVIA

Dr Milica CORDVIC [Affiliation not given]

"In Memory of Stevan Jakovijevic."

Belgrade, Arhiv za Farmaciju, Vol 12, No 5, 1962; pp 300-302.

Abstract: Biography and obituary of this Serbian botanis and writer, who was professor of botany at the Belgrade University School of Pharmacy from its establishment in 1939. Member of the Serbian Academy of Arts and Sciences, died 1962. Portrait.

YUGOSLAVIA

D. SOLDATOVIG and G. PETROVIC, Institute of Texicological Chemistry of Faculty of Pharmacy (Institut sa toksikolosku hamiju, Turmacautski fakultet) Belgrade.

"The Toxicologic Role of Trichlorethylens and its Determination in the Urine."

Belgrade, Arhiv sa Farmaciju, Vol 12, No 5, 1962; pp 303-307.

Abstract: Review of toxicologic and metabolic studies, report of method for determination of the trichloracetic acid in urine, urine tests in 27 exposed workers from 3 Belgrade factories. Trichlorethanol was higher than trichloracetic acid; duration of exposure changed the urinery concentration in the same person ever various periods of time. Three tables; 3 German 2 French references.

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YUGOSLAVIA

Lj. POLJAKOVIC, J. ROSIC and I. BERKES, Department of Biochemistry (Institut za Biohemiju) School of Pharmacy (Farmaceutski Fakultet) Belgrade.

"Determination of Alkali-Resistant Hemoglobin."

Belgrade, Achiv za Farmaciju, Vol 12, No 5, 1962; pp 309-312.

Abstract [English summary modified]: Namelysates of erythrecytes of unspecified number of healthy adults were 100% resistant to alkaline denaturation; all of 12 fetal (unbilical cord blood) hemelysates were susceptible to 50 to 70%. Mixing adult and fetal bloods gave results as anticipated except in the 1:4 ratio which gave high error rate. Method is considered reliable and fast enough for clinical use. Four tables, 5 references: 1 German thesis, 5 English.

YUCOSLAVIA

P. LUKIC, M. GORUNOVIC, and N. KRSTIC, Department of Pharmacognosy (Institut za farmakognoziju) School of Pharmacy (Farmacoutski fakultet) Belgrade.

"Quality of Imported Teas (These folium) Used in Our Country."

Belgrade, Arhiv sa Farmaciju, Vol 12, No 5, 1962; pp 313-316.

Abstract [German summary modified]: Analysis of 6 Indian and 1 Soviet (Georgian) tea specimens marketed in Yugoslavia. All were more than adequate in complying with requirements of the Yugoslav Fharmacopeia (minimum caffeine 2%, maximum ashes 6%). Soviet tea had 2.8 caffeine, 20% aqueous extractive substances; Indian 3 to 4.8 caffeine, 26 to 33 extractives. Three tables, 3 Yugoslav, 2 German, 1 Soviet 1 Polish reference.

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YUGOSLAVIA

B. JAMACKOVIC and M. MIHAJLOV, Institute for Medicinal Flant Research (Institut za ispitivanje lekovitog bilja) MR [Marodna Republika, Mational Republic] Serbia, Belgrade.

"Distribution and Quality of Acropa belladonna L. in Pirot region."

Belgrade, Ambiv za Farmaciju, Vol 12, No 5, 1962; pp 317-325.

Abstract [English summary modified]: Analysis of 36 specimens of free-growing Atropa belladonna collected in 1959-1960 in heretofore unexplored valley around the city of First. Occasional poisonings of animals and children occur; plant is relatively unknown to villagers. Alkaloid centent is highest in roots (0.5%) and unripe berries, lowest in ripe berries (0.2%). Quality satisfies all pharmacopeial requirements. Branch tips have adequate alkaloidal content (0.3%) to make harvest thereof more aconomical than of leaves as done now. Nine tables; 4 Yugoslav 1 Folish 1 Swiss 1 British (mainly pharmacopeial) references.

YUGUSLAVIA

M. STEVANOVIC [Affiliation not given]

"Determination of Cholinesterase in While Blood, Erythrocytes, Plasma and Brain Homogenete of Mice."

Belgrade, Arhiv sa Farmaciju, Vol 12, No 5, 1962; pp 327-330.

Abstract [Fnglish summary medified]: Method based on pH-metry checking degree of aretylcholine breakdown to acetic acid in distilled water brought to pH 8 with phenolphthalein during 30 minutes; 2 3% accuracy, suitable for cholinesterase determination in blood, plasma, RBC and brain tissue homogenate of mice. Technical details are given. One US and 1 Yugoslav reference.

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YUGOSLAVI

M. MARJAROVIC and Z. BLAGOJEVIC, Department of Pharmaceutical Chemistry (Institut za farmaceutsku hemiju) School of Pharmacy (Farmaceutski fakultet) Relgrade.

"Critica: Study of Some Analytical Methods for Aminopyrine."

Belgrade, Arhiv za Farmaciju, Vol 12, No 5, 1962; pp 330-340.

Abstract [French summary modified]: Review and comparative tests of 6 methods described in the literature: complexometry, non-aqueous titration and potentiometry, iodometry, gravimetry, picrate precipitation. Potentiometry in non-aqueous medium gives best over-all results; complexometry is best for small quantities (5-8 mg.); analysis of drug mixture is best by iodometry; non-aqueous titration or potentiometry without preliminary extraction. Equations, 12 tables; 1 Csech, 2 Sovict, 3 temmanian, 2 French theses, 1 Japanese; 19 Western ref's.

YUGOSLAVIA

N. BIRMANCEVIC Extiliation not given]

"Statistica l'effectples in Evaluating Accurage of Drug Bosage."

Belgrade, Arhiw za Farmaciju, Vol 12, No 5, 1962; pg 340-344.

Abstract: Review of basic principles of statistical calculations as used to obtain standard deviation and limits of probability in measuring accuracy of single-dess preparations such as tablets, capsules, supposit these ato.; number of specimens required, methods, equations. Two tables, 2 graphs; 3 Mistern references.

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YEGGSLAVE

M. LUKIC, Department of Drug Control (Cdeljenje za kontrolu lekova) Pharmacy (Lyouehn) of VMA (Vyjno Medicinska Akademija, Military Nedical Colluge,) beigrade.

"Stab.lity of Chlorinated Lame."

Belgrad., Arhiv za Farmaci D. Vol 12, No 5, 1952; pr 345-349.

abstract: Chlorinated lime of Yugoslav manufacture (factory in Jajce) was tisted for loss of Cl during storage under various conditions. Main heretofore ignored factor that is of importance is ambiental temperature; lesst possible environmental temperature should be assured to minimize decomposition. Two graphs; I Soviet and 4 Western references.

YHOOSTAVE !

M. NIKOLIC [Affiliation not given]

"Determination of Acidity and Basicity of Non-Aqueous and Partly Aqueous Sciucions."

Belgrade, Athiv za Farmaciju, Vol 12, No 5, 1962; pp 349-355.

Abstract: Review of basic principles. Importance of solvent for strength of either basic or acid non-aqueous solutions; scales of acidity and hasicity; electrodes and measuring apparatus. Two graphs, 3 diagrams; 9 Western references.

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YUGOSLAVIA

J. TUCAKOV [Frofessor of Pharmacognosy, School of Pharmacy, Belgrade.]

"New PhDs of the Phermaceutical Sciences."

Belgrade, Ar iv sa Farmaciju, Vol 12, No 5, 1962; pp 359-357.

Abstract: Mainly a review of the doct ral dissertation by Milan G. MIRIC on "Chamical Composition of oils (glycerides, free fatty acids and non-saponifiable compounds) During the Course of Davelopment and Ripening of Truits and Seeds of Some Plants." Plants in question are Zea mais, Querquus cerris, Cucurbita maxima, Frunus armenica and Juglans regia. Thesis Lo 95 pages long, has 148-reference bibliography.

YUGOSIAVIA

Dr Andrija D. MIRKOVIC [Affiliation not given]

"Prof Dr Mr Jovan Tucskov New Corresponding Member of the Serbian Academy of Arts and Seiences in Belgrade."

Belgrade, Arhiv sa Farmaciju, Vol 12, No 5, 1982; pp 360-362.

Abstract: Biographical review of Prof TUCAKOV, first pharmacist to achieve such membership; aged 58; studied in Nancy and Brussels; Professor af Pharmacognosy and Director of Institute for Study of Medicinal Plants; traveled widely; 89 publications plus 11 monographs or books; international scientific con ections and memberships. Portrait.

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YUGOSLAVIA

J. TUCAKOV [for affiliation see above]

"Report of the School of Pharmacy in Belgrade, 1961/1962."

Belgrade, Arhiv sa Farmaciju, Vol 12, No 5, 1962; pp 363-373.

Austract: Most comprehensive review of the annual meeting of the faculty, list of over 100 publications; data about the activity of the students and faculty throughout the academic year.

YUGOSLAVIA

2. DJORDJEVIC [Affiliation not given]

"Minuteenth Congress of the International Pharmaceutical Federation."

Belgrade, Arbiv za Farmaciju, Vol 12, No 5, 1962; pp 373-378.

Mistract: Complete summary of this meeting held in Vienna September 1962; summary of all the sectional meetings and papers presented at these; history of the association and of past meetings; general communes.

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YUGCGLAVIA

J. T. CAKEV [refessor of The macognosy, School of Pharmacy Belgrade,

FFirst Session of Professional Committee for the New Yugoslav Pharmacojeia."

Del reds, artiv za Ferraciju, vol 12, ro 5, 1962; FF 378-379.

Apptract: Tregaratory work for Tharmacopea Iugoslavica III. Description of ongacinatin, tasks, editorial assignments.

YUGOSLAVIA

J. TUCAKOV and M. SOLDATOVIC [Affiliation to t given]

"Research and Production of Medicinal Plants in the USSR."

Belgrade, Arhiv sa Farmaciju, Vol 12, No 5, 1962; pp 382-384.

Abstract: Mainly data from the authors' study trip financed by UN Technical Aid Administration; very good description of VILAR (All-Union Institute for Medicinal and Aromatic Plants) in Moscow; .. "medicinal plant research in the USSR is better organized than in the West because there is no narrow side-taking, none of the often sterile individualism which hampers research.."

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TUCOSLAVIA

Dr Andrija D. MIRKOVIC [Affiliation not given]

"From the History of Pharmacy in Serbia. The First Graduate Pharmacists in the Reconstructed Serbia. Mr Dimitrije Milutinovic (1835-1915.)"

Belgrade, Arhiv za Farmeciju, Vol 12, No 5, 1962; pp 384-385.

Abstract: This pioneering pharmacist had several pharmacies in the city of Belgrade, studied in Brno in Moravia and in Vienna; had high military position and by chance detected that retreating Turks had switched all labels on jars in their pharmacy in Nis during the Serbian-Turkish war, putting the quinine label onto the strychnine jar etc., was active in many organisations.

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