

CONTENTS

NUMBER 1, AUGUST, 1918

- I. On the Non-influence of Rise in Body Temperature Induced by Drugs upon the Protein Quotient and the Enumeration of White Corpuscles. By Florence McCoy Hill..... 1
- II. The Detoxifying Action of Sodium Salt on Potassium Salt in the Guinea Pig. By Samuel Amberg and Henry F. Helmholtz..... 19
- III. The Acridity of Some Plants Due to a Mechanical Action. By E. D. Brown and D. D. Anderson..... 37
- IV. I. Tonus Waves from the Sino-auricular Muscle Preparation of the Terrapin as Affected by Adrenalin. By Charles M. Gruber and Casper Markel..... 43
- V. II. Tonus Waves in the Terrapin Auricles as Affected by Pilocarpine, Atropine and Adrenalin. By Charles M. Gruber and Casper Markel.. 53

NUMBER 2, SEPTEMBER, 1918

- VI. The Primary Depression and Secondary Rise in Blood Pressure Caused by Epinephrine. By Hugh McGuigan and Emry G. Hyatt..... 59
- VII. The Effects of Various Agents on Superficial Hemorrhage and the Efficiency of Local Hemostatics. By Paul J. Hanzlik..... 71
- VIII. The Effects of Various Systemic Agents on Superficial Hemorrhage. By Paul J. Hanzlik..... 119

NUMBER 3, OCTOBER, 1918

- IX. Anthelmintics: Their Efficiency as Tested on Earthworms. By Torald Sollmann..... 129
- X. XVI. Differences in the Action of Drugs on Different Parts of the Bowel. By Walter C. Alvarez..... 171
- XI. The Liberation of the Internal Secretion of the Thyroid Gland into the Blood. By J. M. Rogoff..... 193
- XII. Note on the Preparation of a Soluble Concentrated Product of the Thyroid Gland. By J. M. Rogoff..... 207

NUMBER 4, NOVEMBER, 1918

- XIII. The Application of a Concentrated Solution of Magnesium Sulphate to Scalds and Burns. By S. J. Meltzer..... 211
- XIV. A Transparent Celluloid Renal Oncometer or Plethysmograph. By E. W. Schwartze..... 215

- XV. An Experimental Investigation of the Cause of Early Death from Arspenamine, and of Certain Other Features of the Pharmacological Action of the Substance. By D. E. Jackson and M. I. Smith..... 221
- XVI. The Mode of Action of Certain Stimulants in Increasing and of Certain Depressants in Decreasing Oxidation. By W. E. Burge..... 243
- XVII. Adenine Mononucleotide. By Walter Jones and R. P. Kennedy..... 253

NUMBER 5, DECEMBER, 1918

- XVIII. On the Pharmacology of the Ureter. VI. Action of Some Optic Isomers. By David I. Macht..... 255
- XIX. On Dichlorethylsulphide (Mustard Gas). I. The Systemic Effect and Mechanism of Action. By Vernon Lynch, H. W. Smith and E. K. Marshall, Jr. 265
- XX. On Dichlorethylsulphide (Mustard Gas). II. Variations in Susceptibility of the Skin to Dichlorethylsulphide. By E. K. Marshall, Jr., Vernon Lynch and Homer W. Smith..... 291

NUMBER 6, JANUARY, 1919

- XXI. Dichlorethylsulphid (Mustard Gas). I. The Influence of Solvents, Adsorbents and Chemical Antidotes on the Severity of the Human Skin Lesions. By Torald Sollmann..... 303
- XXII. Dichlorethylsulphid (Mustard Gas). II. The Question of Induced Hypersusceptibility of the Skin..... 319
- XXIII. The Effect of Cocaine Hydrochloride on the CO₂ Production of the Mixed Nerve Fiber. By Shuichi Niwa..... 323

NUMBER 7, FEBRUARY, 1919

- XXIV. *p*-Acetyl-Amido-Ethoxy Benzene. By Douglas Cow..... 343
- XXV. On the Pharmacological Action of Allocain S. (A New Local Anesthetic.) By Seiko Kubota..... 361
- XXVI. Effect of Atropin on Ether Hyperglycemia. By Ellison L. Ross... 377

NUMBER 8, MARCH, 1919

- XXVII. An Apparatus for the Administration of Gases and Vapors to Animals. By E. K. Marshall, Jr., and A. C. Kolls..... 385
- XXVIII. On Dichlorethylsulphide (Mustard Gas). III. Solubility and Hydrolysis of Dichlorethylsulphide. With a New Method for Estimating Small Amounts of the Same. By E. F. Hopkins..... 393
- XXIX. Studies in the Elimination of Certain of the Digitalis Bodies from the Animal Organism. By Robert A. Hatcher and Cary Eggleston.... 405

ILLUSTRATIONS

Adrenalin chloride solution, 1: 154,000 (Fig. 1).....	46
— chloride 1: 150,000 at the point indicated by the arrow (Fig. 2).....	47
— chloride 1: 154,000 (Fig. 3).....	48
Epinephrin 1: 80,000,000 dilution (Fig. 4).....	49
Adrenalin chloride 1: 174,000,000 dilution (Fig. 5).....	49
Beaker contained 80 cc. of Ringer's solution (Fig. 1).....	54
— contained 85 cc. of Ringer's solution (Fig. 2).....	55
— contained 80 cc. of Ringer's solution (Fig. 3).....	56
Action of adrenalin before and after ligation of the carotids and section of the vagi (Fig. 1).....	61
Effect of adrenalin after nicotin, in large doses (Fig. 2).....	64
Action of epinephrine before and after section of vagi (Fig. 3).....	65
Effect of extra-dural pressure (Fig. 4).....	66
— of increasing the pressure of cerebrospinal fluid in the fourth ventricle (Fig. 5).....	67
Comparison of the hemoglobin and urea-nitrogen content of blood and the effects of different local agents, during the course of hemorrhage from the dog's foot-pad (Fig. 1).....	76
Local effect of epinephrin in different concentrations on the course of hem- orrhage from the dog's foot-pad (Fig. 2).....	92
Effects of various agents systemically (by intravenous administration) on blood pressure, and hemorrhage from the dog's foot-pad (Fig. 1)...	124
Mixed depression and stimulation (Fig. 1).....	173
— depression and stimulation (Fig. 2).....	174
— depression and stimulation (Fig. 3).....	176
Differences in the action of lead acetate on different parts of the bowel (Fig. 4).....	177
Dissimilar effects in small intestine and colon (Fig. 5).....	185
Depression most pronounced in the jejunum (Fig. 6).....	186
Bloods of dog 1 (series I) (Fig. 1).....	199
— of dog 2 (series I) (Fig. 2).....	200
— of dog 3 (series I) (Fig. 3).....	201
— of dog 3 (series II) (Fig. 4).....	202
Thyroid lobes of dogs 1, 2 and 3 (series II) (Fig. 5).....	203
Controls (series I and II) (Fig. 6).....	204
Photomicrograph of sections of thyroid of dogs 1, 2 and 3 (× 33) (Fig. 7)..	205
Product "A" (Kendall) (left); soluble product (Rogoff) (right) (Fig. 1)....	208
(Fig. 1).....	212
(Fig. 2).....	213
View of the two shells (Fig. 1).....	217
Cardiometer and blood pressure tracings from a dog (Fig. 1).....	224

Tracing showing the kidney volume, myocardiogram and right carotid blood pressure in a dog of 6.1 kilos injected with 25 cc. of 2 per cent arsphenamine in the form of the monosodium salt (Fig. 2).....	225
— showing from above down the respiration, spleen volume and carotid blood pressure in a dog which was injected intravenously with 30 cc. of 2 per cent solution of the monosodium salt of arsphenamine (Fig. 3)...	226
— showing from above down, the kidney volume, right carotid blood pressure and the respiration in a dog injected with 35 cc. of 2 per cent monosodium arsphenamine (Fig. 4).....	228
Left pulmonary blood pressure (above) and right carotid tracing (below) (Fig. 5).....	230
Pulmonary blood pressure (above) and right carotid tracing (below) (Fig. 6)	232
Death records (mounted together) from two dogs (Fig. 7).....	234
Curves showing the percentage decrease produced in the catalase of the blood by the narcotics, and the percentage increase produced by caffeine and theobromin (Fig. 1).....	245
— showing the decrease produced in the catalase of the blood of the liver and of the jugular vein by chloroform and ether and the increase produced by caffeine and theobromin (Fig. 2).....	250
Pig's ureter (Fig. 1).....	256
— ureter (Fig. 2).....	257
Ring of pig's ureter (Fig. 3).....	257
Pig's ureter (Fig. 4).....	257
— ureter (Fig. 5).....	258
— ureter (Fig. 6).....	258
— ureter (Fig. 7).....	258
— ureter (Fig. 8).....	259
— ureter (Fig. 9).....	260
— ureter (Fig. 10).....	260
— ureter (Fig. 11).....	260
— ureter (Fig. 12).....	261
— ureter (Fig. 13).....	261
— ureter (Fig. 14).....	262
(Fig. 1).....	293
Detrimental effects of water (vapor tests) (Fig. 1).....	307
Protective action of petroleum when dichlorethylsulphide is applied as "splash," and when applied through fabric (Fig. 2).....	308
Value of protective oiling (Fig. 3).....	309
Comparison of oils (Fig. 4).....	310
Protective value of dichloramine-T (Fig. 5).....	311
Efficiency of dry powders (Fig. 6).....	314
Showing the effect of cocaine hydrochloride on the CO ₂ output of sciatic nerve of frog (Fig. 1).....	336
— the effect of the time of treatment by the drug on the CO ₂ output of sciatic nerve of frog (Fig. 2).....	337
Rabbit (Fig. 1).....	348

ILLUSTRATIONS

vii

Cat, urethane, heart movements (downstroke-systole) and blood pressure (Fig. 2).....	354
Isolated hearts of rabbits, perfused Langendorff (upstroke-systole) (Fig. 3)	355
Dog, urethane, limb volume, intestinal volume, blood pressure (Fig. 4).....	357
Diagram.....	387
Photograph.....	388
Hydrolysis of dichlorethylsulphide in water.....	395
— of dichlorethylsulphide.....	395