

- Respiration, effects of treadmill exercise on, in children ANDERSON, S.D. & GODFREY, S. 433-442
- Respiration, responses of, to sustained static muscular contractions WILEY, R.L. & LIND, A.R. 221-234
- Skin, human, enzymes of glycogen metabolism in LEATHWOOD, P.D. & RYMAN, B.E. 261-269
- Sodium ion, concentration of, effect of depolymerization of mucopolysaccharide on, in arterial walls HARRIS, G.S. & PALMER, W.A. 293-303
- Stone-formers, renal, calcium oxalate concentration in urine of ROBERTSON, W.G., PEACOCK, M. & NORDIN, B.E.C. 365-374
- Strain, mental, effects of, on human forearm blood vessels DELIUS, W. & KELLEROVÁ, E. 271-282
- Synovial blood vessels, sympathetic control of normal and diseased DICK, W.C., JUBB, R., BUCHANAN, W.W., WILLIAMSON, J., WHALEY, K. & PORTER, B.B. 197-209
- ^{33m}Techetium, uptake of, in relation to clinical assessment of arthritis DICK, W.C., DEODHAR, S.D., PROVAN, C.J., NUKI, G. & BUCHANAN, W.W. 327-336
- Thermoregulation and Raynaud's phenomenon DOWNEY, J.A., LEROY, E.C., MILLER, J.M. & DARLING, R.C. 211-219
- Twins, monovular and binovular, effect of drugs on eye and heart of BERTLER, Å. & SMITH, S.E. 403-410
- Urine, concentration of calcium oxalate in ROBERTSON, W.G., PEACOCK, M. & NORDIN, B.E.C. 365-374
- Vitamin B₁₂ metabolism, chromatographic and bioautographic estimations of plasma cobalamins in various disturbances of LINNELL, J.C., HOFFBRAND, A.V., PETERS, T.J. & MATTHEWS, D.M. 1-16
- Vitamin D₃, isotopically labelled, influence of vitamin D nutritional state on metabolism of, in man MAWER, E.B., LUMB, G.A., SCHAEFER, K. & STANBURY, S.W. 39-53
- Volume expansion, extracellular, effect of on the composition of proximal tubular fluid in man FILLASTRE, J.P., ARDAILLOU, R. & ISAAC, R. 479-486
- Warfarin, interaction of, with dichloralphenazone, chloral hydrate and phenazone, in man BRECKENRIDGE, A., ORME, M.L'E., THORGEIRSSON, S., DAVIES, D.S. & BROOKS, R.V. 351-364
- Water, body, distribution of, gas-induced osmosis as a factor in the HILLS, B.A. 175-191

CONTENTS

VOL. 40, No. 1

JANUARY 1971

- Chromatographic and bioautographic estimation of plasma cobalamins in various disturbances of vitamin B₁₂ metabolism. J. C. LINNELL, A. V. HOFFBRAND, T. J. PETERS and D. M. MATTHEWS 1
- Abnormal excretion of the isomers of urinary coproporphyrin by patients with Dubin-Johnson syndrome in Israel. JUDITH BEN-EZZER, C. RIMINGTON, M. SHANI, U. SELIGSOHN, CH. SHEBA and A. SZEINBERG 17

The haematinic effect of iron in flour. P. C. ELWOOD, W. E. WATERS and P. SWEETNAM	31
The metabolism of isotopically labelled vitamin D ₃ in man: the influence of the state of vitamin D nutrition. E. BARBARA MAWER, G. A. LUMB, K. SCHAEFER and S. W. STANBURY	39
The hypocalcaemic effect of intravenous phosphate administration. T. C. B. STAMP	55
Serum protein concentrations in normal children. BERENICE ABRAMS	67
Natriuretic response to preferential plasma volume expansion in normal unanaesthetized dogs. J. A. REYBURN and J. P. GILMORE	73
Depression of δ -aminolaevulinic acid dehydrase activity by ethanol in man and rat. M. R. MOORE, A. D. BEATTIE, G. G. THOMPSON and A. GOLDBERG	81
Protein synthesis in the myocardopathy and muscular dystrophy of the Syrian hamster. AMANDA LOCHNER, ANKE BRINK and A. J. BRINK	89
The gastrointestinal absorption of atropine in man. B. BEERMANN, K. HELLSTRÖM and A. ROSÉN	95

VOL. 40, No. 2

FEBRUARY 1971

The effect of phenyl ethyl biguanide <i>in vivo</i> and <i>in vitro</i> on gluconeogenesis and ammonia production in rats. G. A. O. ALLEYNE, H. S. BESTERMAN and H. FLORES	107
Circulatory and respiratory changes during unilateral and bilateral cranial nerve IX and X block in two asthmatics. JOHN H. EISELE and SUSHIL K. JAIN	117
The effect of moderate exercise on blood metabolites in patients with hypopituitarism. R. H. JOHNSON, M. J. RENNIE, J. L. WALTON and M. H. C. WEBSTER	127
Human glomerular membrane porosity and filtration pressure: dextran clearance data analysed by theoretical models. G. ARTURSON, T. GROTH and G. GROTHE	137
Azotaemic inhibition of organic anion transport in the kidney of the rat: mechanisms and characteristics. E. P. ORRINGER, F. R. WEISS and H. G. PREUSS	159
Effect of propanolol in lactate-induced hypophosphataemia in man. J. A. BONN and JEAN HARRISON	171
Gas-induced osmosis as a factor influencing the distribution of body water. B. A. HILLS	175
Transferable pyrogen in human experimental fever. M. D. RAWLINS, W. I. CRANSTON and R. H. LUFF	193
Studies on the sympathetic control of normal and diseased synovial blood vessels: the effect of α and β receptor stimulation and inhibition, monitored by the ¹³³ xenon clearance technique. W. C. DICK, R. JUBB, W. W. BUCHANAN, J. WILLIAMSON, K. WHALEY and B. B. PORTER	197
MEDICAL RESEARCH SOCIETY (Annual General Meeting held on 11-12 December 1970)	
Symposium on Autoregulation	1P
Communications	2P
Demonstrations	7P

VOL. 40, No. 3

MARCH 1971

Thermoregulation and Raynaud's phenomenon. J. A. DOWNEY, E. C. LEROY, J. M. MILLER, III and R. C. DARLING	211
---	-----

Contents

xv

Respiratory responses to sustained static muscular contractions in humans. R. L. WILEY and A. R. LIND	221
Forearm circulation in man at high altitude. J. V. WEIL, E. BYRNE-QUINN, D. J. BATTOCK, R. F. GROVER and C. A. CHIDSEY	235
Mechanisms of dipeptide uptake by rat small intestine <i>in vitro</i> . B. CHENG, F. NAVAB, M. T. LIS, T. N. MILLER and D. M. MATTHEWS	247
Enzymes of glycogen metabolism in human skin with particular reference to differential diagnosis of the glycogen storage diseases. P. D. LEATHWOOD and BRENDA E. RYMAN	261
Reactions of arterial and venous vessels in the human forearm and hand to deep breath or mental strain. W. DELIUS and E. KELLEROVÁ	271
Chronic hypertension elicited by infusion of angiotensin into vertebral arteries of unanaesthetized dogs. K. FUKIYAMA, J. W. MCCUBBIN and I. H. PAGE	283
MEDICAL RESEARCH SOCIETY (Meeting held on 12 February 1971)	
Communications	9p
Demonstrations	14p

VOL. 40, No. 4

APRIL 1971

The effect of enzymatic depolymerization of arterial mucopolysaccharides on sodium ion content and vessel reactivity. G. S. HARRIS and W. A. PALMER	293
The causes of hypocalcaemia in chronic renal failure. M. COCHRAN and B. E. C. NORDIN	305
Pulmonary function in chronic severe anaemia. J. S. GULERIA, J. N. PANDE, M. M. MARKOSE, R. G. GUPTA and B. P. JAIN	317
Isotope studies in normal and diseased knee joints: ^{99m} Tc uptake related to clinical assessment and to synovial perfusion measured by the ¹³³ Xe clearance technique. W. C. DICK, S. D. DEODHAR, CAROL J. PROVAN, G. NUKI and W. W. BUCHANAN	327
Serum protein changes after injury. H. G. MINCHIN CLARKE, T. FREEMAN and W. PRYSE-PHILLIPS	337
Metabolism of palmitic and linoleic acids in man: differences in turnover and conversion to glycerides. P. J. NESTEL and P. BARTER	345
Drug interactions with warfarin: studies with dichloralphenazone, chloral hydrate and phenazone (antipyrine). A. BRECKENRIDGE, M. L'E. ORME, S. THORGEIRSSON, D. S. DAVIES and R. V. BROOKS	351
MEDICAL RESEARCH SOCIETY (Meeting held on 26 March 1971)	
Symposium on the Clinical and Biochemical Significance of Serum Lipoproteins	15p
Communications	17p
Demonstrations	19p

VOL. 40, No. 5

MAY 1971

Calcium oxalate crystalluria and urine saturation in recurrent renal stone-formers. W. G. ROBERTSON, M. PEACOCK and B. E. C. NORDIN	365
Urinary excretion of nitrogen from ¹⁵ N-labelled amino acids in the malnourished and recovered child. I. Glycine and lysine. W. W. C. READ, D. S. MCLAREN and MARIE TCHALIAN	375

Lung mechanics during provocation of asthma. J. F. CADE, ANN J. WOOLCOCK, A. S. REBUCK and M. C. F. PAIN	381
Metabolism of autologous ^{131}I -labelled IgG in patients after renal homotransplantation. J. VIVIAN WELLS and D. JEREMY	393
Genetic influences in drug responses of the eye and the heart. Å. BERTLER and S. E. SMITH	403
Modifications to the technique of two-dimensional immunoelectrophoresis. D. R. DAVIES, E. D. SPURR and J. B. VERSEY	411
Cardio-respiratory response to exercise in normal children. S. GODFREY, C. T. M. DAVIES, E. WOZNIAK and CAROLYN A. BARNES	419
Cardio-respiratory response to treadmill exercise in normal children. SANDRA D. ANDERSON and S. GODFREY	433
VOL. 40, No. 6	JUNE 1971
Simultaneous determination of plasma converting enzyme and angiotensinase activity by radioimmunoassay. K. POULSEN and L. L. POULSEN	443
The effect of lung deflation on breathing in man. A. GUZ, M. I. M. NOBLE, J. H. EISELE and DIANA TRENCHARD	451
Ketone-body concentrations in liver and blood after limb ischaemia in the rat. R. N. BARTON	463
Influence of extracellular volume expansion on the composition of proximal tubular fluid in man. J. P. FILLASTRE, R. ARDAILLOU and R. ISAAC	479
Intracellular pH measured in isolated normal human leucocytes, by using 5,5-dimethyl-2,4-oxazolidinedione under conditions of varying extracellular PCO_2 and bicarbonate. S. A. AHMED and D. N. BARON	487
Long-term therapy of diabetes insipidus with oral benzothiadiazine and phthalimidine diuretics. A. F. LANT and G. M. WILSON	497
MEDICAL RESEARCH SOCIETY (Meeting held on 21 May 1971)	
Communications	21P
Demonstrations	29P