

CONTENTS

VOL. 51, No. 1

JULY 1976

Guidance for Authors	i-x
Clinical Science: The Annual Lecture of the Medical Research Society: 12 December 1976. E. J. M. CAMPBELL	1-7
Effect of sotalol on haemodynamics and renin-angiotensin-aldosterone system in hypertensive patients. A. VERNIORY, M. STAROUKINE, F. DELWICHE and M. TELERMAN	9-17
Functional and biochemical evidence of damage to enterocytes induced by triparanol: role of lysosomes and the effect of a gluten-free diet. J.-C. SOULÉ, G. NEALE and T. J. PETERS	19-25
Cystinuria: a new genetic variant. A. D. STEPHENS and D. PERRETT	27-32
Effect of vasopressin on uric acid excretion: evidence for distal nephron reabsorption of urate in man. A. MEISEL and H. DIAMOND	33-40
Differential effects of Asp ¹ -angiotensin II and Sar ¹ -angiotensin II on vascular and adrenal receptors in the dog. E. L. BRAVO, M. C. KHOSLA and F. M. BUMPUS	41-45
The transport of endogenous vitamin B ₁₂ in normal human serum. J. M. ENGLAND, MARGARET C. DOWN, IRENE J. WISE and J. C. LINNELL	47-52
The forced expiratory time as a measure of small airway resistance. N. K. BURKI and MARY C. DENT	53-58
Reversible resistance to the renal action of parathyroid hormone in man. S. TOMLINSON, G. N. HENDRY, D. M. PEMBERTON and J. L. H. O'RIORDAN	59-69
The effect of the porphyrogenic compound, hexachlorobenzene, on the activity of hepatic uroporphyrinogen decarboxylase in the rat. G. H. ELDER, J. O. EVANS and S. A. MATLIN	71-80
Stimulated flow of pancreatic and biliary secretions after intestinal exposure to cholera toxin. I. FREIMAN and R. N. MELMED	81-85
The disappearance of enzyme-inhibitor complexes from the circulation of man. K. OHLSSON and C.-B. LAURELL	87-92
The sodium-retaining effect of renal nerve activity in the cat: role of angiotensin formation. E. J. JOHNS, BARBARA A. LEWIS and BERTHA SINGER	93-102

SHORT COMMUNICATIONS

Effect of posture on renal lithium clearance. D. F. SMITH and M. SHIMIZU	103-105
Effects of <i>p</i> -chlorophenoxyisobutyrate on free fatty acid mobilization from canine subcutaneous adipose tissue <i>in situ</i> . N. E. MILLER, O. D. MJØS and M. F. OLIVER	107-110

VOL. 51, No. 2

AUGUST 1976

A method for measurement of angiotensin II in tissues and its application to rat kidney. F. A. O. MENDELSON	111-125
The absorption of sugars from the human buccal cavity. A. S. MANNING and D. F. EVERED	127-132
Density-dependence of maximal expiratory flow rates before and after bronchodilators in patients with obstructive airways disease. J. J. WELLMAN, E. R. MCFADDEN, JR and R. H. INGRAM, JR	133-139
Measurement of liver blood flow by means of a single injection of bromosulphthalein, without hepatic venous catheterization. M. J. CLARKSON, ANNE HARDY-SMITH and T. G. RICHARDS	141-150
Comparison of renal blood flow and transit times measured by means of ^{99m} Tc-labelled erythrocytes and Indocyanine Green in humans with normal and diseased kidneys. F. C. REUBI, C. VORBURGER, GERTRUD PFEIFFER and S. GOLDER	151-159
The effect of cellulose phosphate on plasma and urinary magnesium at different levels of parathyroid function in man. A. M. PARFITT	161-168
Kinetics of hepatic uptake of unconjugated bilirubin. G. PAUMGARTNER and J. REICHEN	169-176

Plasma enteroglucagon and plasma volume change after gastric surgery. J. P. S. THOMSON and S. R. BLOOM	177-183
Effect of age on oxygen-binding in normal human subjects. P. M. TWEEDDALE, R. J. E. LEGGETT and D. C. FLENLEY	185-188
Intracellular acid-base heterogeneity in nucleated avian erythrocytes. J. M. BONE, A. VERTH and ANNE T. LAMBIE	189-196
SHORT COMMUNICATIONS	
The kinetics of efflux of 5,5-dimethyl-2,4-oxazolidinedione (DMO) from the myocardium. P. A. POOLE-WILSON	197-201
Nomogram for oxygen in gas mixtures at standard atmospheric pressure. H. S. BACHELARD	203-204
Bone-resorbing activity in the sera of patients with rheumatoid arthritis. A. C. KENNEDY, R. LINDSAY, W. W. BUCHANAN and B. F. ALLAM	205-207
Relationship of epicardial ST segment elevation to the plasma free fatty acid/albumin ratio during coronary occlusion in dogs. N. E. MILLER, O. D. MJØS and M. F. OLIVER	209-213
The contribution of plasma protease inhibitors to antiplasmin activity in man. G. P. M. CRAWFORD, D. OGSTON and A. S. DOUGLAS	215-218
CORRESPONDENCE SECTION	
Sodium balance and responsiveness to angiotensin II. M. TREE, M. G. NICHOLLS, J. J. BROWN, J. I. S. ROBERTSON, R. FRASER, A. F. LEVER and N. K. HOLLENBERG	219
VOL. 51, No. 3	SEPTEMBER 1976
Low-density lipoproteins in patients homozygous for familial hyperbetaipoproteinaemia. G. L. MILLS, C. E. TAYLAUR and M. J. CHAPMAN	221-231
Comparison of heart sarcolemmal enzyme activities in normal and cardiomyopathic (UM-X7.1) hamsters. N. S. DHALLA, J. N. SINGH, E. BAJUSZ and G. JASMIN	233-242
Haemodynamics and body fluid volumes in response to fluid loading in conscious dogs: non-excretory renal influences. J.-F. LIARD	243-255
The esterification of exogenous fatty acids by adipose tissue of hypertriglyceridaemic subjects with or without diabetes mellitus. P. CLIFTON-BLIGH and D. J. GALTON	257-265
The response of arginine vasopressin and plasma renin to postural change in normal man, with observations on syncope. ROY DAVIES, J. D. H. SLATER, MARY L. FORSLING and NADIA PAYNE	267-274
Influence of sodium restriction upon two models of renal hypertension. H. THURSTON and J. D. SWALES	275-279
Indirect evidence of calcitonin secretion in man. A. CANIGGIA, C. GENNARI, A. VATTIMO, P. NARDI and R. NUTI	281-285
Potassium transport across the distal colon in man. C. A. SALAS-COLL, J. C. KERMODE and C. J. EDMONDS	287-296
Blood flow through the calf during recovery from fractures of the lower limb. F. J. IMMS, D. A. LORDE, S. P. PRESTIDGE and CHRISTINE THORNTON	297-302
Effects of immersion in water and changes in intrathoracic blood volume on lung function in man. N. K. BURKI	303-311
Generation of ammonia from non-urea sources in a faecal incubation system. A. VINCE, P. F. DOWN, J. MURISON, F. J. TWIGG and O. M. WRONG	313-322
MEDICAL RESEARCH SOCIETY (Meeting on 2 and 3 July 1976)	
Communications	1P-24P

Contents

xxv

VOL. 51, No. 4

OCTOBER 1976

Gas exchange during exercise in healthy people. I. The physiological dead-space volume. CHRISTINE A. BRADLEY, E. A. HARRIS, EVE R. SEELYE and R. M. L. WHITLOCK	323-333
Gas exchange during exercise in healthy people. II. Venous admixture. E. A. HARRIS, EVE R. SEELYE and R. M. L. WHITLOCK	335-344
Effects of parathyroid hormone on sodium and calcium transport in the dog nephron. R. A. L. SUTTON, N. L. M. WONG and J. H. DIRKS	345-351
Chloride depletion and hypochloraemia as a cause of renal sodium and water loss in the rat. B. T. KHANH and R. G. LUKE	353-362
The effect of pH on folic acid absorption in man. J. F. MACKENZIE and R. I. RUSSELL	363-368
Urinary excretion of peptides and of hydroxyproline in Wilson's disease. A. M. ASATOOR, M. D. MILNE and J. M. WALSH	369-378
A study <i>in vivo</i> of peritubular oncotic pressure and proximal tubular reabsorption in the rat. J. D. CONGER, E. BARTOLI and L. E. EARLEY	379-392
Elimination of cholesterol in hyperlipoproteinaemia. B. ANGELIN, K. EINARSSON, K. HELLSTRÖM and M. KALLNER	393-397
A study of changes in whole-body calcium, phosphorus, sodium and nitrogen by neutron activation analysis <i>in vivo</i> in rats on a calcium-deficient diet. K. BODDY, R. LINDSAY, I. HOLLOWAY, D. A. S. SMITH, A. ELLIOTT, I. ROBERTSON and D. GLAROS	399-402
Bone blood flow in the rat determined by the uptake of radioactive particles. P. TOTHILL and J. ST C. McCORMICK	403-406
The effect of aluminium hydroxide orally on calcium, phosphorus and aluminium metabolism in normal subjects. J. M. CAM, V. A. LUCK, J. B. EASTWOOD and H. E. DE WARDENER	407-414
Intravenous fat-tolerance test in ischaemic heart disease and peripheral vascular disease. B. LEWIS, A. C. ONITIRI, I. D. P. WOOTTON, A. CHAIT, G. SIGURDSSON and C. M. OAKLEY	415-420
Tissue and hepatic subcellular distribution of liposomes containing bleomycin after intravenous administration to patients with neoplasms. A. W. SEGAL, G. GREGORIADIS, J. P. LAVENDER, D. TARIN and T. J. PETERS	421-425

VOL. 51, No. 5

NOVEMBER 1976

The mechanism for small-bowel adaptation in lactating rats. ELWYN ELIAS and R. H. DOWLING	427-433
The influence of orthophosphate on the renal handling of inorganic pyrophosphate in man and dog. R. G. G. RUSSELL, SYLVIA BISAZ and H. FLEISCH	435-443
Regulation of the human pyruvate dehydrogenase complex. D. STANSBIE	445-452
Neural factors contributing to renin release during reduction in renal perfusion pressure and blood flow in cats. A. STELLA, F. CALARESU and A. ZANCHETTI	453-461
The metabolism <i>in vivo</i> and <i>in vitro</i> of plasma low-density lipoprotein from a subject with inherited hypercholesterolaemia. N. B. MYANT, D. REICHL, G. R. THOMPSON, M. J. P. HIGGINS and D. J. GALTON	463-465
Skin collagen in idiopathic adolescent scoliosis and Marfan's syndrome. M. J. O. FRANCIS, M. C. SANDERSON and R. SMITH	467-474
Inverse relationship in Jamaica between plasma high-density lipoprotein cholesterol concentration and coronary-disease risk as predicted by multiple risk-factor status. G. J. MILLER, N. E. MILLER and M. T. ASHCROFT	475-482
Plasma cadmium and zinc in human hypertension. G. S. THIND and GRACE M. FISCHER	483-486
Changes in cardiac and hepatic glucocorticoid receptors after adrenalectomy. M. C. GREGORY, D. DUVAL and P. MEYER	487-493

Carbon monoxide in alveolar air as an index of exposure to cigarette smoke. R. G. RAWBONE, CATHERINE A. COPPIN and A. GUZ	495-501
Effect of acupuncture on bronchial asthma. D. Y. C. YU and S. P. LEE	503-509

SHORT COMMUNICATION

A simple method for the differential measurement of ^{125}I and ^3H by liquid-scintillation spectro- metry. J. H. SHAND and R. C. NOBLE	511-513
--	---------

VOL. 51, No. 6

DECEMBER 1976

The safety assessment in the dog of a charcoal haemoperfusion column. J. C. KOLTHAMMER, P. A. WATSON, S. LANG and J. FENNIMORE	515-524
The specificity of antisera for the radioimmunoassay of arginine-vasopressin in human plasma and urine during water loading and dehydration. T. H. THOMAS and M. R. LEE	525-536
Altered angiotensin I conversion in pulmonary disease. SUZANNE OPARIL, J. LOW and T. J. KOERNER	537-543
Diminished albumin binding of zinc in serum of pregnant women. E. GIROUX, P. J. SCHECHTER and JOSIANE SCHOUN	545-549
Renal hypertrophy in streptozotocin-diabetic rats. K. SEYER-HANSEN	551-555
Analytical subcellular fractionation of jejunal biopsy specimens: methodology and characterization of the organelles in normal tissue. T. J. PETERS	557-574
Regulation of breathing during exercise in normal subjects and in chronic lung disease. G. W. BRADLEY and R. CRAWFORD	575-582
Distribution of blood flow in the hypothermic (27°C) dog kidney. W. R. WITHEY, B. J. CHAPMAN and K. A. MUNDAY	583-588
Influence of severe potassium depletion and subsequent repletion with potassium on muscle electro- lytes, metabolites and amino acids in man. J. BERGSTRÖM, A. ALVESTRAND, P. FÜRST, E. HULT- MAN, K. SAHLIN, E. VINNARS and A. WIDSTRÖM	589-599
The role of small intestine and kidney in bromosulphthalein conjugation. D. V. DATTA, SARBAN SINGH, P. N. CHHUTTANI and C. R. NAIR	601-604
SHORT COMMUNICATIONS	
A competitive protein-binding assay for 25-hydroxyvitamin D. J. M. PETTIFOR, F. P. ROSS and J. WANG	605-607
Self-paced walking as a method for exercise testing in elderly and young men. E. JOAN BASSEY, P. H. FENTEM, I. C. MACDONALD and PATRICIA M. SCRIVEN	609-612