

CONTENTS

VOL. 47, No. 1

JULY 1974

- Changes in body fluid distribution and interstitial tissue compliance during the development and reversal of experimental renal hypertension in the rat. J. LUCAS and M. A. FLOYER 1
- The effect of ethane-1-hydroxy-1,1-diphosphonate (EHDP) on calcium oxalate crystalluria in recurrent renal stone-formers. W. G. ROBERTSON, M. PEACOCK, R. W. MARSHALL and F. KNOWLES 13
- The contrasting effects on bone histology of vitamin D and of calcium carbonate in the osteomalacia of chronic renal failure. J. B. EASTWOOD, P. J. BORDIER, E. M. CLARKSON, S. TUN CHOT and H. E. DE WARDENER 23
- Mental retardation, megaloblastic anaemia, methylmalonic aciduria and abnormal homocysteine metabolism due to an error in vitamin B₁₂ metabolism. M. J. DILLON, J. M. ENGLAND, D. GOMPERTZ, PATRICIA A. GOODEY, D. B. GRANT, H. A-A. HUSSEIN, J. C. LINNELL, D. M. MATTHEWS, S. H. MUDD, G. H. NEWNS, J. W. T. SEAKINS, B. W. UHLENDORF and IRENE J. WISE 43
- Peripheral vitamin C metabolism in diabetics and non-diabetics: effect of intra-arterial insulin. B. D. COX, MARGARET J. WHICHELOW, W. J. H. BUTTERFIELD and P. NICHOLAS 63
- The single-passage extraction of ¹⁸F in rabbit bone. R. WOOTTON 73
- The renin-angiotensin system in acute renal failure in rats. P. G. MATTHEWS, T. O. MORGAN and C. I. JOHNSTON 79

SHORT COMMUNICATIONS

- Effect of oxygen on sodium transfer across the isolated frog skin. J. N. NORMAN, J. R. SHEARER and G. SMITH 89
- Variation in glomerular sialic acid content in diabetes and as the result of ageing. A. DE BATS, A. H. GORDON and E. L. RHODES 93

VOL. 47, No. 2

AUGUST 1974

- Polymer coating of activated charcoal and its effects on biocompatibility and paracetamol binding. B. G. GAZZARD, P. G. LANGLEY, M. J. WESTON, E. H. DUNLOP and ROGER WILLIAMS 97
- The time-course of response to prednisolone in chronic bronchial asthma. R. ELLUL-MICALLEF, R. C. BORTHWICK and G. J. R. MCHARDY 105
- Adrenocortical function in obesity and Cushing's syndrome. MARGARET E. HANKIN, HELEN M. THEILE and A. W. STEINBECK 119
- Pyloric reflux: a modification of the two-component hypothesis of gastric secretion. M. HOBBSLEY 131
- Lung function in chronic uraemia before and after removal of excess of fluid by haemodialysis. D. C. STĂNESCU, C. VERITER, J. F. DE PLAEN, A. FRANS, C. VAN YPERSELE DE STRIHOU and L. BRASSEUR 143
- Cardiopulmonary blood volume in borderline hypertension. M. E. SAFAR, Y. A. WEISS, G. M. LONDON, R. F. FRACKOWIAK and P. L. MILLIEZ 153

Cardiorespiratory adaptations at the start of exercise in normal subjects and in patients with chronic obstructive bronchitis. S. G. SPIRO, H. L. HAHN, R. H. T. EDWARDS and N. B. PRIDE	165
Variations in allopurinol metabolism by xanthinuric subjects. H. A. SIMMONDS, B. LEVIN and J. S. CAMERON	173
The redistribution of body sodium in women on long-term oestrogen therapy. J. M. AITKEN, R. LINDSAY and D. M. HART	179

SHORT COMMUNICATION

Comparison of effects of locally infused angiotensin I and II on hand veins and forearm arteries in man: evidence for converting enzyme activity in limb vessels. J. G. COLLIER and B. F. ROBINSON	189
--	-----

MEDICAL RESEARCH SOCIETY (Meeting on 17 May 1974)

Demonstrations	1P
Communications	1P

VOL. 47, No. 3

SEPTEMBER 1974

A study of factors influencing relief of discomfort in breath-holding in normal subjects. J. R. A. RIGG, A. S. REBUCK and E. J. M. CAMPBELL	193
The effect of brain extracts on urinary sodium excretion of the rat and the intracellular sodium concentration of renal tubule fragments. E. M. CLARKSON, K. G. KOUTSAIMANIS, M. DAVIDMAN, M. DU BOIS, W. P. PENN and H. E. DE WARDENER	201
Assay using brain homogenate for measuring the antioxidant activity of biological fluids. J. STOCKS, J. M. C. GUTTERIDGE, ROSEMARY J. SHARP and T. L. DORMANDY	215
The inhibition of lipid autoxidation by human serum and its relation to serum proteins and α -tocopherol. J. STOCKS, J. M. C. GUTTERIDGE, ROSEMARY J. SHARP and T. L. DORMANDY	223
The control of aldosterone secretion in nephrectomized man. T. J. GOODWIN, V. H. T. JAMES and W. S. PEART	235
Effects of a sustained muscular contraction on human intraocular pressure. D. F. MARCUS, H. F. EDELHAUSER, M. G. MAKSUD and R. L. WILEY	249
Plasma free fatty acid and triglyceride transport kinetics in man. A. H. KISSEBAH, P. W. ADAMS and V. WYNN	259
Assessment of plasma glutamyl transpeptidase activity and urinary D-glucaric acid excretion as indices of enzyme induction. D. C. DAVIDSON, W. B. MCINTOSH and J. A. FORD	279

SHORT COMMUNICATION

The ventilatory response to carbon dioxide in patients who have recovered from cardiogenic pulmonary oedema. M. SPIERER	285
---	-----

MEDICAL RESEARCH SOCIETY (Meeting on 12 July 1974)

Demonstrations	11P
Symposium: Biological Effects of Asbestos	11P
Communications	12P

The antidiuretic action of carbamazepine in man. A. E. MEINDERS, V. CEJKA and G. L. ROBERTSON	289
Aldosterone and its regulation during diuresis in patients with gross congestive heart failure. M. G. NICHOLLS, E. A. ESPINER, R. A. DONALD and H. HUGHES	301
Quantitative radioisotope renography: the derivation of physiological data by deconvolution analysis using a single-injection technique. J. REEVE and J. C. W. CRAWLEY	317
Specificity of blockade of renal renin release by propranolol in the cat. E. J. JOHNS and BERTHA SINGER	331
Arteriovenous studies on the uptake and metabolism of cortisol in the human forearm. A. C. ASMAL, W. J. H. BUTTERFIELD, K. J. COLLINS and J. D. FEW	345
Reduced serum somatomedin activity in patients with chronic liver disease. A. WU, D. B. GRANT, JUDY HAMBLEY and A. J. LEVI	359
Influence of hydrostatic and oncotic pressure on sodium reabsorption in the unilateral pyelonephritic dog kidney. J. P. WAGNILD, F. D. GUTMANN and R. E. RIESELBACH	367
The effect of bendrofluzide and frusemide on the ventilatory response to carbon dioxide and hypoxia in normal man. A. G. LEITCH, L. CLANCY and D. C. FLENLEY	377

SHORT COMMUNICATIONS

Changes in the fatty acid composition of plasma lipoproteins during administration of Intralipid to a patient with essential fatty acid deficiency. G. R. THOMPSON, J. HEATH and M. PRESS	387
Intestinal absorption of cystine and cysteine in normal human subjects and patients with cystinuria. D. B. A. SILK, D. PERRETT, A. D. STEPHENS, M. L. CLARK and E. F. SCOWEN	393
Detection of mucopolysaccharidoses by sulphate incorporation into stimulated lymphocytes. A. VENETIANER, L. DALLMANN, A. LÁSZLÓ and K. BURG	399

Neutral protease from the polymorphonuclear leucocytes of human rheumatoid synovial fluid. R. H. PRYCE-JONES, J. SAKLATVALA and G. C. WOOD	403
Unesterified fatty acids and the binding of tryptophan in human plasma. G. CURZON, JUNE FRIEDEL, BHARATI D. KATAMANENI, MONICA H. GREENWOOD and M. H. LADER	415
Influence of deoxycholic acid feeding on the elimination of cholesterol in normolipaemic subjects. K. EINARSSON, K. HELLSTRÖM and M. KALLNER	425
Blood pressure changes produced by kidney cross-transplantation between spontaneously hypertensive rats and normotensive rats. G. BIANCHI, U. FOX, G. F. DI FRANCESCO, A. M. GIOVANETTI and D. PAGETTI	435
Vitamin E protection of the liver from paracetamol in the rat. B. E. WALKER, J. KELLEHER, M. F. DIXON and M. S. LOSOWSKY	449
Studies of the peripheral vasodilator response to acute insulin-induced hypoglycaemia in man. W. G. MIDDLETON and E. B. FRENCH	461
The inhibition of renin secretion by alpha-adrenergic stimulation in the isolated rat kidney. R. VANDONGEN and W. S. PEART	471

The effects of exogenous parathyroid hormone on plasma and urinary adenosine 3',5'-cyclic monophosphate in man. S. TOMLINSON, P. M. BARLING, J. D. M. ALBANO, B. L. BROWN and J. L. H. O'RIORDAN	481
Muscle metabolism during exercise in patients with Parkinson's disease. S. LANDIN, L. HAGENFELDT, B. SALTIN and J. WAHREN	493
Platelet survival in acute proliferative glomerulonephritis. J. A. CARRUTHERS, I. RALFS, T. M. D. GIMLETTE and R. FINN	507

SHORT COMMUNICATION

Human erythrocyte glutathione reductase and glucose 6-phosphate dehydrogenase activities in normal subjects and in persons exposed to lead. J. K. HOWARD	515
--	-----

MEDICAL RESEARCH SOCIETY (Meeting on 27 and 28 September 1974)

Demonstrations	19P
Communications	19P

VOL. 47, No. 6

DECEMBER 1974

Effect of autonomic blockade on the transient changes in cardiac frequency on relief of hypoxia in man. E. S. PETERSEN, H. VEJBY-CHRISTENSEN and T. M. NIELSEN	521
Hepatic vitamin B ₁₂ release and transcobalamin II synthesis in the rat. W. G. E. COOKSLEY, J. M. ENGLAND, L. LOUIS, M. C. DOWN and A. S. TAVILL	531
Changes in plasma lipoprotein lipids in hypercholesterolaemic patients treated with the bile acid-sequestering resin, colestipol. P. CLIFTON-BLIGH, N. E. MILLER and P. J. NESTEL	547
Serial studies of the renal clearance of urate and inulin during pregnancy and after the puerperium in normal women. P. F. SEMPLE, W. CARSWELL and J. A. BOYLE	559
Human parathyroid hormone: immunological properties of the amino terminus and of synthetic fragments. G. N. HENDY, P. M. BARLING and J. L. H. O'RIORDAN	567
2,3-Diphosphoglycerate concentrations and the dissociation of oxyhaemoglobin in ventilatory failure. L. J. FAIRWEATHER, J. WALKER and D. C. FLENLEY	577
The effect of glucose on the urinary excretion of sodium and hydrogen ion in man. E. S. GARNETT and C. NAHMIA	589
Experimental acute hepatic encephalopathy: comparison of the electroencephalographic changes in the liverless and in the eviscerated rat. FRANCINE DEGOS, J.-D. DEGOS, DENISE BOURDIAU, MICHÈLE PEIGNOUX, DANIELÈ PRANDI, JACQUELINE ROCHE-SICOT, C. SICOT, B. RUEFF and J.-P. BENHAMOU	599
Acute hepatic encephalopathy in the rat: the effect of cross-circulation. JACQUELINE ROCHE-SICOT, C. SICOT, MICHÈLE PEIGNOUX, DENISE BOURDIAU, FRANCINE DEGOS, J.-D. DEGOS, DANIELÈ PRANDI, B. RUEFF and J.-P. BENHAMOU	609
The effect of vitamin B ₁₂ deficiency on methylfolate metabolism and pteroylpolyglutamate synthesis in human cells. A. LAVOIE, E. TRIPP and A. V. HOFFBRAND	617

SHORT COMMUNICATIONS

Seasonal variation of lipoprotein lipase activity in human subcutaneous adipose tissue. B. PERSSON	631
--	-----

The metabolism of low-density lipoprotein in a patient with familial hyperbetalipoprotein- aemia. D. REICHL, L. A. SIMONS and N. B. MYANT	635
The effect of prolonged ethanol treatment on the sodium-plus-potassium-ion-stimulated adenosine triphosphatase content of cultured human and mouse cells. R. LINDSAY	639
Glutathione peroxidase deficiency with increased susceptibility to erythrocyte Heinz body formation. J. HOPKINS and G. R. TUDHOPE	643