CONTENTS

VOL. 42, No. 1 JANUARY 1972

The oxygen-transporting system in relation to age. C. T. M. Davies

The effects of sodium loading and deprivation on plasma renin and plasma and urinary aldosterone in hypertension. J. P. Coghlan, A. E. Doyle, G. Jerums and B. A. Scoggins

Ragweed pollen: morphological changes on incubation with saliva from ragweed-allergic and non-allergic humans. L. W. Mayron and R. J. Loisel


Effect of arterial CO₂ pressure on the response of cerebral and hind-limb blood flow and metabolism to isoprenaline infusion in the dog. C. Xanolatos and I. M. James

The association of a humoral sodium transport inhibitory activity with renal escape from chronic mineralocorticoid administration in the dog. V. M. Buckalew, Jr and C. D. Lancaster, Jr

The proteinases of human gastric adenocarcinomata: their identification, separation and sites of action on the B-chain of oxidized insulin. D. J. Etherington and W. H. Taylor

The role of angiotensin II in the control of aldosterone in man. G. W. Boyd, A. R. Adamson, Marion Arnold, V. H. T. James and W. S. Peart

Intestinal ammonia in uraemia: the effect of a urease inhibitor, acetohydroxamic acid. J. D. Swales, J. D. Tange and D. J. Evans

SHORT COMMUNICATION


MEDICAL RESEARCH SOCIETY (Meeting held on 22 October 1971)

Demonstrations
Communications

VOL. 42, No. 2 FEBRUARY 1972


The effects of synthetic human and salmon calcitonins on electrolyte excretion in the rat. C. C. Williams, E. W. Matthews, Jane M. Moseley and I. MacIntyre

xxii
Contents

Urinary excretion of nitrogen from \([^{15}N]valine\), \([^{15}N]leucine\) and \([^{15}N]isoleucine\) in malnourished and recovered children. W. W. C. Read, D. S. McLaren and Marie Tchalian 139

The antidiuretic action of diazoxide, J. E. F. Pohl, H. Thurston and J. D. Swales 145

Studies in man with \(^{18}F\). D. J. Hosking and M. J. Chamberlain 153


Electrolyte changes in patients with subarachnoid haemorrhage. I. M. James 179


SHORT COMMUNICATION

Calcium shift into bone: a calcitonin-resistant primary action of parathyroid hormone, studied in rats. C. J. Robinson, B. Rafferty and J. A. Parsons 235

MEDICAL RESEARCH SOCIETY (Annual General Meeting held on 10 December 1971)

Demonstrations 7P

Symposium on the Red Cell 8P

Communications 10P

Vol. 42, No. 3 March 1972

Total and nutritional blood flow in the finger. J. D. Coffman 243

Role of pulmonary vagal afferent nerve fibres in the development of rapid shallow breathing in lung inflammation. Diana Trenchard, D. Gardner and A. Guz 251

Distribution and properties of \(Na^+\),\(K^+\)-ATPase in human post-mortem kidney and the effects of diuretics. B. R. Tulloch, K. Gibson and P. Harris 265

Effects of acutely induced changes in arterial pH on pulmonary vascular resistance during normoxia and hypoxia in awake dogs. O. G. Thilenius and Carol Derenzo 277

Effect of phosphate supplements on soft-tissue calcification and bone turnover. Jennifer Jowsey and P. Balasubramaniam 289

Effect of increased sodium ion on arterial sodium and reactivity. G. S. Harris and W. A. Palmer 301

Intracellular buffering in the dog at varying CO\(_2\) tensions. J. L. Gamble, Jr, P. J. Zuromskis, J. A. Bettice and R. L. Ginsberg 311
Iron-deficiency anaemia: its effect on transfer factor for the lung (diffusing capacity) and ventilation and cardiac frequency during sub-maximal exercise. J. E. Cotes, J. M. Dabbs, P. C. Elwood, A. M. Hall, A. McDonald and M. J. Saunders 325


An evaluation of rebreathing methods for measuring mixed venous $PCO_2$ during exercise. S. Godfrey and Eliana Wolf 345


Respiratory function tests in older people. J. S. Milne and J. Williamson 371

Clinical studies on inflammation in small diarthrodial joints. Technetium ($^{99m}$Tc) percentage uptakes in various arthritides and studies on the effect of aspirin in rheumatoid arthritis. W. C. Dick, K. E. Collins and W. W. Buchanan 383
Acknowledgment to referees of papers submitted during 1971
Effect of intraluminal concentrations on the impairment of glycine absorption by glucose in the human jejunum. G. C. COOK
Renal vasodilatation: studies on the site of action in the nephron. S. G. MASSRY and J. J. AHUMADA
Intravascular haemolysis and urinary iron losses after replacement of heart valves by a prosthesis. S. D. SLATER and G. S. FELL
Influence of patient age on forearm and systemic vascular response to hypoxaemia. T. F. KRAVEC, G. W. N. EGGERS, JR and L. J. KETTEL
Metabolic effect and uptake of \([^3]H\)digoxin in the forearm of man. R. I. OGILVIE and G. A. KLASSEN
Vascular reactivity in post-deoxycorticosterone hypertension in rats and its relation to 'irreversible' hypertension in man. L. J. BEILIN and G. ZIAKAS
Inhibition of sodium and potassium transport in separated renal tubule fragments incubated in extracts of urine obtained from salt-loaded individuals. E. M. CLARKSON and H. E. DE WARDENER
Carbon monoxide, tissue hypoxia, and sensory psychomotor response in hypoxaemic subjects. J. M. RAMSAY
Mechanisms of excretion of some low-molecular-weight bases in the rat. E. BOURKE, A. M. ASATOOR and M. D. MILNE

SHORT COMMUNICATIONS
The effect of defibrination on nephrotic serum nephritis in rabbits. P. NAISH, G. B. PENN, D. J. EVANS and D. K. PETERS
The measurement of the extracellular space in an \textit{in vitro} system of human leucocytes. J. PATRICK and P. J. HILTON

MEDICAL RESEARCH SOCIETY (Meeting held on 17 March 1972)
Demonstrations 23P
Symposium on Ion and Water Movements through Living Membranes 23P
Communications 26P

Pathogenesis of arterial hypertension after the constriction of the renal artery leaving the opposite kidney intact both in the anaesthetized and in the conscious dog. G. BIANCHI, E. BALDONI, R. LUCCA and P. BARBIN
Contents

Exchangeable potassium content and distribution in normal subjects and uraemic patients on chronic haemodialysis. V. RETTORI, T. GRAL, S. G. MASSRY and M. F. VILLAMIL 673

Renin and control of arterial blood pressure during terminal renal failure treated by haemodialysis and by transplantation. A. VERNIORY, P. POTVLIEGE, J. J. VAN GEERTRUYDEN, P. VEEGERSTRAETEN, P. KINNART, M. STAROUKINE and C. TOUSSAINT 685

Water and sodium excretion after blood volume expansion under conditions of constant arterial, venous and plasma oncotic pressures and constant haematocrit. B. LICHARDUS and A. NIZET 701

Studies on the mechanism of sodium excretion in uraemia. R. WILKINSON, J. A. LUETSCHER, A. J. DOWDY, C. GONZALES and G. W. NOKES 711

Reversibility of airways obstruction in chronic bronchitis. T. W. ASTIN 725

A study by perfusion techniques of the absorption abnormalities in the jejunum in adult coeliac disease. R. I. RUSSELL, J. G. ALLAN, V. P. GERSKOWITCH and J. W. K. ROBERTSON 735


Relationship between haemodynamic and respiratory function in patients with myocardial infarction and left ventricular failure. ANNE E. TATTERSFIELD, M. W. McNICOL and R. W. SILLETT 751

The effect of acute portacaval shunting in dogs on cerebral and peripheral blood flow and metabolism. I. M. JAMES, LINDSAY MACDONELL and C. XANALATOS 769

SHORT COMMUNICATIONS

Increased adenosine triphosphate concentration in erythrocytes in neurofibromatosis. L. KULLMANN, G. E. J. STAAL and H. W. WOUTERS 775

Elevation of alcohol dehydrogenase activity in the subclinically scorbutic guinea-pig. MAUREEN O'KEANE, M. R. MOORE and A. GOLDBERG 781