

CONTENTS

VOL. 41, No. 1

JULY 1971

The haemodynamic consequences of adaptive structural changes of the resistance vessels in hypertension. BJÖRN FOLKOW	1
Patterns of ventilatory response to carbon dioxide during recovery from severe asthma. A. S. REBUCK and JOHN READ	13
Intestinal absorption of oligopeptides in cystinuria. A. M. ASATOOR, M. R. CROUCHMAN, A. R. HARRISON, F. W. LIGHT, L. W. LOUGHRIDGE, M. D. MILNE and A. J. RICHARDS	23
Measurement of interstitial 'fluid' pressure by means of a cotton wick in man and animals: an analysis of the origin of the pressure. P. D. SNASHALL, J. LUCAS, A. GUZ and M. A. FLOYER	35
Potassium and sodium distribution in cardiac failure. J. R. COX, P. HORROCKS, CAROL J. SPEIGHT, ROSEMARY E. PEARSON and NORMA HOBSON	55
Cardiovascular reflexes in Parkinsonism. J. L. REID, D. B. CALNE, C. F. GEORGE, C. PALLIS and S. D. VAKIL	63
Hormones released into the circulation when the urinary bladder of the anaesthetized dog is distended. N. J. GILMORE and J. R. VANE	69
SHORT COMMUNICATION	
The effect of methylguanidine on tissue respiration <i>in vitro</i> . R. A. FELGATE and W. H. TAYLOR	85

VOL. 41, No. 2

AUGUST 1971

The intramedullary connections of the area postrema involved in the central cardiovascular response to angiotensin II. M. D. JOY	89
Respiratory and haemodynamic response to carbon dioxide breathing in patients with and without bronchial obstruction. V. JEŽEK and F. BOUDÍK	101
Renal vasodilatation: effect on renal handling of phosphate. J. J. AHUMADA and S. G. MASSRY	109
The different effects of oral sucrose and glucose on alimentary lipaemia. J. I. MANN, A. S. TRUSWELL and B. L. PIMSTONE	123
Magnesium metabolism in patients on regular dialysis treatment. P. SCHMIDT, R. KOTZAUREK, J. ZAZGORNÍK and HERTA HYSEK	131
A study of the metabolism of fibrinogen after surgical operations. J. A. HICKMAN	141
A quantitative study of skeletal-muscle purines and pyrazolo[3,4- <i>d</i>]pyrimidines in gout patients treated with allopurinol. R. W. E. WATTS, W. SNEDDEN and R. A. PARKER	153
The effect of changes in lactate uptake on the intracellular pH of the perfused rat liver. R. D. COHEN, R. A. ILES, D. BARNETT, M. E. O. HOWELL and J. STRUNIN	159
MEDICAL RESEARCH SOCIETY (Meeting held on 25 June 1971)	
Symposium on Immunopathology in Clinical Medicine	1P
Communications	2P
Demonstrations	8P

VOL. 41, No. 3

SEPTEMBER 1971

- Diuretics in chronic renal disease: a study of high dosage frusemide. MARJORIE E. M. ALLISON and A. C. KENNEDY 171
- Studies with radioactive copper (^{64}Cu and ^{67}Cu); the incorporation of radioactive copper into caeruloplasmin in Wilson's disease and in primary biliary cirrhosis. KATHLEEN GIBBS and J. M. WALSHE 189
- Ventilatory function in healthy adult Nigerians. D. FEMI-PEARSE and E. A. ELEBUTE 203
- The renal clearance of oxalate in normal subjects and patients with primary hyperoxaluria. H. E. WILLIAMS, GLORIA A. JOHNSON and L. H. SMITH, JR 213
- Studies on the mechanism of hypernatruresis in essential hypertension in relation to measurements of plasma renin concentration, body fluid compartments and renal function. M. A. D. H. SCHALEKAMP, X. H. KRAUSS, M. P. A. SCHALEKAMP-KUYKEN, G. KOLSTERS and W. H. BIRKENHÄGER 219
- The effect of long-term mestranol administration on calcium and phosphorus homeostasis in oophorectomized women. J. M. AITKEN, D. MCKAY HART and D. A. SMITH 233
- The effect of tryptophan load and vitamin B₆ supplementation on urinary excretion of tryptophan metabolites in human male subjects. H. WOLF and R. R. BROWN 237
- The relation between the urinary excretion of inorganic phosphate and sodium. M. FULOP and P. BRAZEAU 249
- The effects of hypoxia on myocardial blood flow and oxygen consumption: negative role of beta adrenoceptors. J. P. VANCE, J. R. PARRATT and I. MCA. LEDINGHAM 257
- The role of the diaphragm in the sensation of holding the breath. M. I. M. NOBLE, J. H. EISELE, H. L. FRANKEL, WENDY ELSE and A. GUZ 275
- The ability of man to detect added resistive loads to breathing. M. I. M. NOBLE, H. L. FRANKEL, WENDY ELSE and A. GUZ 285

VOL. 41, No. 4

OCTOBER 1971

- Plasma renin in idiopathic orthostatic hypotension: differential response in subjects with probable afferent and efferent autonomic failure. D. R. LOVE, J. J. BROWN, R. H. CHINN, R. H. JOHNSON, A. F. LEVER, D. M. PARK and J. I. S. ROBERTSON 289
- Quantitative changes in plasma amino acids induced by oral contraceptives. I. L. CRAFT and T. J. PETERS 301
- The validity of measurement of mean whole body intracellular hydrogen ion activity using 5,5-dimethyl-2,4-oxazolidinedione. D. L. MAKOFF, M. J. REID, Y. BAR KHAYIM and F. KUYT 309
- Renin and aldosterone in essential hypertension. T. A. KOTCHEN, P. J. MULROW, L. B. MORROW, P. M. SHUTKIN and N. MARIEB 321
- Magnesium depletion in the rhesus monkey: induction of magnesium-dependent hypocalcaemia. M. J. DUNN 333
- Iron metabolism in patients with chronic renal failure on regular dialysis treatment. D. H. LAWSON, K. BODDY, P. C. KING, A. L. LINTON and G. WILL 345

Contents

xix

- Substrate utilization in paretic human forearm muscle during electrically induced exercise.
L. HAGENFELDT, S. LANDIN and J. WAHREN 353
- Erythrocyte protoporphyrin and iron uptake in erythropoietic protoporphyria. K. G. A.
CLARK and D. C. NICHOLSON 363

VOL. 41, No. 5

NOVEMBER 1971

- Effect of ileal resection on bile salt metabolism in patients with ileostomy following
proctocolectomy. I. W. PERCY-ROBB, K. N. JALAN, J. P. A. MCMANUS and W.
SIRCUS 371
- On the mechanism of hyperkalaemia due to hyperosmotic expansion with saline or man-
nitol. D. L. MAKOFF, J. A. DA SILVA and B. J. ROSENBAUM 383
- The plasma clearance and liver uptake of iron from transferrin of low and high iron
saturation. J. FLETCHER 395
- The effect of ammonium salts on cerebral and hind-limb consumption of oxygen and
glucose in the ventilated dog. I. M. JAMES, M. GARASSINI and E. LARBI 403
- Rates of absorption by rat intestine of pancreatic hydrolysates of proteins and their
corresponding amino acid mixtures. R. F. CRAMPTON, S. D. GANGOLLI, PAMELA
SIMSON and D. M. MATTHEWS 409
- The reflex stimulation of catecholamine secretion during the acute stage of myocardial
infarction in the dog. JANINA STASZEWSKA-BARCZAK 419
- The role of vasopressin and urea in the renal concentrating defect of patients with cir-
rhosis of the liver. C. A. VAAMONDE, LILIANA S. VAAMONDE, J. I. PRESSER, H. J.
MOROSI, E. L. KLINGLER, JR and S. PAPPER 441
- Seasonal influence on insulin secretion in man. M. FAHLÉN, A. ODÉN, P. BJÖRNTORP and
G. TIBBLIN 453
- Leg blood flow during exercise in man. L. JORFELDT and J. WAHREN 459
- The excretion of salicylate in salicylate poisoning. A. G. MORGAN and A. POLAK 475

VOL. 41, No. 6

DECEMBER 1971

- The binding of copper by bile and serum. D. FROMMER 485
- Assessment of renal function during trimetaphan infusion in prognostic evaluation of
surgical management of renovascular hypertension. P. FIORANI, V. FARAGLIA, F.
BENEDETTI-VALENTINI, JR, G. R. PISTOLESE, L. SEMPREBENE, C. SPARTERA, G. CITONE,
R. DI SALVO and G. A. CINOTTI 495
- Studies on acid excretion in adults with sickle-cell anaemia. H. HO PING KONG and
G. A. O. ALLEYNE 505
- Intrarenal distribution of blood flow during saline loading in the dog. K. C. BOVEE and
G. D. WEBSTER 519
- The isolation and identification of piperidine-2-carboxylic acid in the urine of protein
malnourished rats. R. S. CROWNE, C. DONNINGER, R. F. GRIMBLE and R. G.
WHITEHEAD 535
- The effect of starvation and diabetes on glycolytic enzymes in human adipose tissue.
D. J. GALTON and J. P. D. WILSON 545

Diagnostic value of quantitative scintiscanning of the salivary glands in Sjögren's syndrome and rheumatoid arthritis. K. W. STEPHEN, D. M. CHISHOLM, R. MCG. HARDEN, J. W. K. ROBERTSON, K. WHALEY and AGNES STUART	555
A reinvestigation of methylguanidine concentrations in sera from normal and uraemic subjects. L. R. I. BAKER and R. D. MARSHALL	563
The relative importance of clinical, radiological and pulmonary function variables in evaluating asbestosis and chronic obstructive airway disease in asbestos workers. GILLIAN M. REGAN, BERYL TAGG, JOAN WALFORD and M. L. THOMSON	569
The response of normal subjects to the short ammonium chloride test: the modifying influence of renal ammonia production. R. L. TANNEN	583
The effects of oophorectomy and long-term mestranol therapy on the serum lipids of middle-aged women. J. M. AITKEN, A. R. LORIMER, D. MCKAY HART, T. D. V. LAWRIE and D. A. SMITH	597