

CONTENTS

VOL. 62, No. 1

JANUARY 1982

Guidance for Authors	i-x
Editorial Review: Epidemiology of hypertension: blood pressure in blacks and whites. J. K. CRUICKSHANK and D. G. BEEVERS	1-6
Editorial Review: Interpretation of thoracoabdominal movements during breathing. M. D. GOLDMAN	7-11
<hr/>	
Comparison of nasal and bronchial mucociliary clearance in young non-smokers. EDITH PUCHELLE, F. AUG, J. M. ZAHM and A. BERTRAND	13-16
Magnesium reduces calcium oxalate crystal formation in human whole urine. P. C. HALLSON, G. A. ROSE and S. SULAIMAN	17-19
Factors affecting excretion of human urinary Tamm-Horsfall glycoprotein. K. L. LYNN, A. SHENKIN and R. D. MARSHALL	21-26
Role of prostaglandins in mediating excretion by the kidney of an intravenous infusion of sodium chloride in normal human subjects. M. L. WATSON, A. T. LAMBIE, A. THOM and A. UNGAR	27-33
Fibrin deposition in the kidney and renal blood flow during intravascular coagulation in the rat: influence of the renin-angiotensin system. E. STÅHL, B. E. KARLBERG and L. RAMMER	35-41
Body-fluid composition in normal and hypertensive man. J. H. BAUER and C. S. BROOKS	43-49
Functional interactions between angiotensin and sympathetic reflexes in cats. R. HATTON, D. P. CLOUGH, S. A. ADIGUN and J. CONWAY	51-56
Autonomic control of the immediate heart rate response to lying down. F. BELLAVERE and D. J. EWING	57-64
Pathogenesis of salt retention in dogs with chronic bile-duct ligation. C. CHAIMOVITZ, U. ALON and O. S. BETTER	65-70
Synovial fluid and plasma fibronectin levels in rheumatoid arthritis. D. L. SCOTT, M. FARR, A. P. CROCKSON and K. W. WALTON	71-76
Effect of fasting on the disappearance of injected alanine and 3-hydroxybutyrate in obese subjects. R. SWAMINATHAN, D. B. MORGAN and J. K. WALES	77-81
Intracellular free amino acids in undernourished patients with or without sepsis. P. J. MILEWSKI, C. J. THRELFALL, D. F. HEATH, I. B. HOLBROOK, K. WILFORD and M. H. IRVING	83-91
Studies of a variant very-low-density lipoprotein with an acquired deficiency of apolipoprotein C-II. J. P. D. RECKLESS, J. STOCKS, G. HOLDSWORTH, D. J. GALTON, A. J. SUGGETT and K. W. WALTON	93-100
The relation between membrane cholesterol and phospholipid and sodium efflux in erythrocytes from healthy subjects and patients with chronic cholestasis. P. A. JACKSON and D. B. MORGAN	101-107
Zinc deficiency and photoreceptor dysfunction in chronic liver disease. P. W. N. KEELING, J. O'DAY, W. RUSE and R. P. H. THOMPSON	109-111
SHORT COMMUNICATION	
The purine nucleotide profile in mouse, chicken and human dystrophic muscle: an abnormal ratio of inosine plus adenine nucleotides to guanine nucleotides. R. J. SHUTTLEWOOD and J. R. GRIFFITHS	113-115

CORRESPONDENCE SECTION

- Effect of inheritance and stress on the diurnal excretion of sodium and potassium in young people with and without a family history of hypertension. P. S. PARFREY 117

VOL. 62, No. 2

FEBRUARY 1982

-
- Editorial Review:** Expanding views on ischaemic heart disease: a perspective for the 1980s. A. MASERI 119-123
- Editorial Review:** The roles of C-apolipoproteins in the metabolism of triglyceride-rich lipoproteins. J. P. D. RECKLESS, J. STOCKS and G. HOLDSWORTH 125-129
-
- β -Adrenoceptor blockade and recovery from hypoglycaemia in diabetic subjects: normalization after lactate and glycerol infusions. I. LAGER and U. SMITH 131-136
- Effect of noise on blood pressure and 'stress' hormones. L. ANDRÉN, G. LINDSTEDT, M. BJÖRKMAN, K. O. BORG and L. HANSSON 137-141
- Effect of acute vasopressin infusion on blood pressure and plasma angiotensin II in normotensive and DOCA-salt hypertensive rats. J. J. MORTON, C. GARCIA DEL RIO and MARIA J. HUGHES 143-149
- Efflux of noradrenaline from platelets in normotensive members of hypertensive families. INGRID MATTIASSON and B. HOOD 151-155
- Sulphydryl oxidation in the mechanism of molecular-weight conversion of renin in dog kidney. F. IKEMOTO, K. TAKAORI, H. IWAO and K. YAMAMOTO 157-162
- Influence of the vagus nerve on changes in heart rate during sleep apnoea in man. C. I. MEANOCK 163-167
- Effects of meclofenamate and captopril on renal and other regional vascular beds after mild haemorrhage in conscious rabbits. R. A. BANKS, L. J. BEILIN, J. SOLTYS and L. DAVIDSON 169-176
- Protection of prostacyclin-like activity in human plasma - a non-enzymatic mechanism? D. P. MIKHAILIDIS, A. M. MIKHAILIDIS, M. L. WOOLLARD and P. DANDONA 177-181
- Alterations in haem biosynthesis during the human menstrual cycle: studies in normal subjects and patients with latent and active acute intermittent porphyria. K. E. L. MCCOLL, A. M. WALLACE, M. R. MOORE, G. G. THOMPSON and A. GOLDBERG 183-191
- Diagnostic enzymology of α -L-iduronidase with special reference to a sulphated disaccharide derived from heparin. J. J. HOPWOOD and VIVIENNE MULLER 193-201
- Muscarinic acetylcholine receptors of the small intestine and pancreas of the rat: distribution and the effect of vagotomy. P. E. T. ISAACS, J. S. WHITEHEAD and Y. S. KIM 203-207
- Effect of inhibition of prostaglandin synthesis on urinary free dopamine excretion in women. H.-G. GÜLLNER, D. J. LAKATUA and F. C. BARTTER 209-213
- Glucocorticoids decrease the conversion of thyroxine into 3,5,3'-tri-iodothyronine by isolated rat renal tubules. P. HEYMA and R. G. LARKINS 215-220
- Calcium balance in osteoporotic patients on long-term oral calcium therapy with and without sex hormones. N. C. THALASSINOS, D. H. GUTTERIDGE, G. F. JOPLIN and T. R. FRASER 221-226
- The effect of knee injury on the number of muscle fibres in the human quadriceps femoris. A. YOUNG, I. HUGHES, J. M. ROUND and R. H. T. EDWARDS 227-234
- Comparative effect of diuretics on renal water excretion in hyponatraemic oedematous disorders. V. L. SZATALOWICZ, P. D. MILLER, J. W. LACHER, J. A. GORDON and R. W. SCHRIER 235-238

SHORT COMMUNICATIONS

- Is the pro-adhesive activity of plasma von Willebrand factor counteracted by a physiological inhibitor of platelet adhesiveness? M. PORTA, E. CAGLIERO and E. M. KOHNER 239-242
- Effect of locally applied subatmospheric pressure on subcutaneous blood flow during the course of acute myocardial infarction. K. SKAGEN 243-245

MEDICAL RESEARCH SOCIETY (Meeting on 4 and 5 December 1981)

- Communications 1P-57P

VOL. 62, No. 3

MARCH 1982

-
- Editorial Review:** Assessment of sympathetic nervous function in humans from noradrenaline plasma kinetics. M. ESLER 247-254
- Editorial Review:** Oedema in cor pulmonale. J. M. RICHENS and P. HOWARD 255-259
- Editorial Review:** Cholesterol transport through the plasma. N. B. MYANT 261-271
-
- Total hepatectomy and hepatic vascular exclusion in the rat: a comparison, with special reference to the influence of body temperature. M. PEIGNOUX, J. BERNUAU and J.-P. BENHAMOU 273-277
- Factors influencing hepatic glutathione concentrations: a study in surgical patients. E. C. P. SHI, R. FISHER, MAEVE MCEVOY, REBECCA VANTOL, MARGARET ROSE and J. M. HAM 279-283
- Intravenous infusion of α -oxoisocaproate: influence on amino acid and nitrogen metabolism in patients with liver cirrhosis. L. S. ERIKSSON, L. HAGENFELDT and J. WAHREN 285-293
- Effects of (+)-octanoylcarnitine on deoxyribonucleic acid synthesis in regenerating rabbit liver. T. NAKATANI, K. YASUDA, K. OZAWA, S. KAWASHIMA and T. TOBE 295-297
- Glutamine production rate and its contribution to urinary ammonia in normal man. M. H. N. GOLDEN, P. JAHOR and A. A. JACKSON 299-305
- Baroreceptor stimulation and isometric exercise in normotensive and borderline hypertensive subjects. D. H. SUAREZ, F. H. MESSERLI, H. O. VENTURA, G. ARISTIMUNO, G. R. DRESLINSKI and E. D. FROHLICH 307-309
- Effect of vagotomy on the breathing pattern and exercise ability in emphysematous patients. G. W. BRADLEY, T. HALE, J. PIMPLE, R. ROWLANDSON and M. I. M. NOBLE 311-319
- Isolation and characterization of a pancreatic elastase from plasma of patients with acute pancreatitis. N. TOKI, S. TAKASUGI and J. SUMI 321-328
- Bone mineral content of the lumbar spine in normal and osteoporotic women: cross-sectional and longitudinal studies. B. KRØLNER and S. P. NIELSEN 329-336

SHORT COMMUNICATION

- Multiple molecular forms of human heart cytoplasmic aspartate aminotransferase. F. Y. LEUNG and A. R. HENDERSON 337-339

CORRESPONDENCE SECTION

- Effect of captopril (SQ 14 225) on vasopressin release induced by angiotensin in the conscious rat. W. KNEPEL, U. BEUERS, D. NUTTO and G. HERTING 341-342

VOL. 62, No. 4

APRIL 1982

-
- Editorial Review:** Mechanisms of gastric mucosal protection: a role for the 'mucus-bicarbonate' barrier. W. D. W. REES and L. A. TURNBERG 343-348
-

Circadian variation in adrenergic responses in asthmatic subjects. P. J. BARNES, G. A. FITZGERALD and C. T. DOLLERY	349-354
Direct radioimmunoassay of rat angiotensinogen and its application to rats in various endocrine states. J. BOUHNİK, E. CLAUSER, J. GARDES, P. CORVOL and J. MENARD	355-360
Indomethacin or aprotinin infusion: effect on reversal of chronic two-kidney, one-clip hypertension in the conscious rat. G. I. RUSSELL, R. F. BING, J. D. SWALES and H. THURSTON	361-366
The contribution of the accelerating phase of inspiratory flow to resistive load detection in man. P. G. NARBED, D. MARCER and J. B. L. HOWELL	367-372
Effect of changes in sodium balance on potassium/aldosterone dose-response curves in the dog. M. G. NICHOLLS, M. TREE, J. H. LIVESEY, R. FRASER, J. J. MORTON and J. I. S. ROBERTSON	373-380
Reversible resistance to the renal action of parathyroid hormone in human vitamin D deficiency. I. G. LEWIN, S. E. PAPAPOULOUS, G. N. HENDY, S. TOMLINSON and J. L. H. O'RIORDAN	381-387
Increase of whole-body calcium and skeletal mass in normal and osteoporotic adult rats treated with parathyroid hormone. E. HEPTI, U. TRECHSEL, J.-P. BONJOUR, H. FLEISCH and R. SCHENK	389-396
Heritability of the low density lipoprotein receptor activity of human blood mononuclear cells: studies in normolipidaemic adult male twins. M. WEIGHT, C. CORTESE, U. SULE, N. E. MILLER and B. LEWIS	397-401
Turnover studies of human β_2 -microglobulin in the rat: evidence for a β_2 -microglobulin binding plasma protein. H. NGUYEN-SIMONNET, C. VINCENT, C. GAUTHIER, J. P. REVILLARD and M. V. PELLET	403-410
Evidence for a lactate transporter in the plasma membrane of the rat hepatocyte. J. P. MONSON, J. A. SMITH, R. D. COHEN and R. A. ILES	411-420
Urate does not influence the formation of calcium oxalate crystals in whole human urine at pH 5.3. P. C. HALLSON, G. A. ROSE and S. SULAIMAN	421-425
SHORT COMMUNICATIONS	
The effect of renal function on changes in circulating concentrations of 1,25-dihydroxycholecalciferol after an oral dose. S. E. PAPAPOULOS, T. L. CLEMENS, L. M. SANDLER, L. J. FRAHER, J. WINER and J. L. H. O'RIORDAN	427-429
The effect of intrarenal infusion of bile on kidney function in the dog. U. ALON, M. BERANT, D. MORDECHOVITZ and O. S. BETTER	431-433
Absence of activation <i>in vitro</i> of renin in rat plasma. M. H. DE KEIJZER, A. P. PROVOOST and F. H. M. DERKX	435-437
VOL. 62, No. 5	MAY 1982
Editorial Review: Dopamine and the kidney. M. R. LEE	439-448
Editorial Review: Insulin biosynthesis and its regulation. I. L. CAMPBELL, L. N. B. HELLQUIST and K. W. TAYLOR	449-455
Effect of acute unilateral renal denervation on intrarenal haemodynamics and urinary excretion in rats before and during hypervolaemia. A. T. VERESS, C. K. CHONG and H. SONNENBERG	457-464
The renin-angiotensin-aldosterone system, antidiuretic hormone and sympathetic nerve activity in an experimental model of congestive heart failure in the dog. A. J. G. RIEGGER and G. LIEBAU	465-469

Dietary sodium intake: a determinant of postprandial plasma sodium concentration in the dog. E. G. SCHNEIDER, SARAH D. GLEASON and A. ZUCKER	471-477
Erythrocyte metabolism in patients on haemodialysis and continuous ambulatory peritoneal dialysis. G. P. SUMMERFIELD, A. J. BELLINGHAM, L. MANLOVE, A. M. FORBES and H. J. GOLDSMITH	479-488
Erythrocyte sodium transport in chronic renal failure. R. SWAMINATHAN, G. CLEGG, M. CUMBERBATCH, Z. ZAREIAN and F. MCKENNA	489-494
A biochemical and immunological investigation into the physiological basis of the increased albumin filtration induced in hyperalbuminaemic female Wistar rats. GILLIAN M. LAWRENCE and D. B. BREWER	495-502
Decrease in the tubular reabsorption of calcium with evidence for compensatory hyperparathyroidism in X-linked hypophosphataemia in mice. R. C. MÜHLBAUER, J.-P. BONJOUR and H. FLEISCH	503-508
Inhibitory activity of human urine on calcium oxalate crystal growth: effects of sodium urate and uric acid. B. FELLSTRÖM, U. BACKMAN, B. G. DANIELSON, K. HOLMGREN, S. LJUNGHALL and B. WIKSTRÖM	509-514
Relationship between hepatic cholesterol synthesis and biliary cholesterol secretion in man: hepatic cholesterol synthesis is not a major regulator of biliary lipid secretion. P. N. MATON, A. REUBEN and R. H. DOWLING	515-519
Maximal biliary secretion of bilirubin in the anaesthetized rat: dependence on UDP-glucuronosyltransferase activity. W. VAN STEENBERGEN and J. FEVERY	521-528
Iron and isoferritins in iron overload. M. WAGSTAFF, M. WORWOOD and A. JACOBS	529-540
Alveolar gas mixing efficiency in the human lung. G. CUMMING and A. R. GUYATT	541-547
Effect of atropine on alveolar gas mixing in man. W. KOX, F. LANGLEY, K. HORSFIELD and G. CUMMING	549-551
SHORT COMMUNICATIONS	
Urea, glucose and alanine kinetics in man: effects of glucose infusion. G. T. ROYLE, J. A. MOLNAR, MARTA H. WOLFE, R. R. WOLFE and J. F. BURKE	553-556
Non-pancreatic hydrolysis of <i>N</i> -benzoyl- <i>L</i> -tyrosyl- <i>p</i> -aminobenzoic acid (PABA-peptide) in the human small intestine. E. E. STERCHI, J. R. GREEN and M. J. LENTZE	557-560
CORRESPONDENCE SECTION	
Reduced cardiac beat-to-beat variation in chronic renal failure: a ubiquitous marker of autonomic neuropathy. Z. H. ENDRE, S. I. PERL, E. W. KRAEGEN, J. A. CHARLESWORTH and G. J. MACDONALD	561-562
Sodium transport in polymorphonuclear leucocytes: effect of isolation by the Ficoll/Triosil method. L. POSTON, R. B. JONES and P. J. HILTON	563-564
Inhibitory effect of captopril on adrenergic vasoconstriction. K. KONDO and T. SARUTA	565-566

VOL. 62, No. 6

JUNE 1982

Editorial Review: Measurement of cerebral blood flow and metabolism in man. N. A. LASSEN	567-572
Effects of saralasin infusion on bilateral renal function in two-kidney, one-clip Goldblatt hypertensive rats. W.-C. HUANG, D. W. PLOTH and L. G. NAVAR	573-579
The autonomic nervous tone abnormalities in the genesis of the impaired baroreflex responsiveness in borderline hypertensive subjects. M. VOLPE, B. TRIMARCO, B. RICCIARDELLI, C. VIGORITO, N. DE LUCA, F. RENGO and M. CONDORELLI	581-588

Baroreflex sensitivity during the development of spontaneous hypertension in rats. H. A. J. STRUYKER-BOUDIER, R. T. EVENWEL, J. F. M. SMITS and H. VAN ESSEN	589–594
Sodium balance, fluid homeostasis and the renin–aldosterone system during the prolonged exercise of hill walking. J. S. MILLEDGE, E. I. BRYSON, D. M. CATLEY, R. HESP, N. LUFF, B. D. MINTY, M. W. J. OLDER, N. N. PAYNE, M. P. WARD and W. R. WITHEY	595–604
Sympathetic reflex control of subcutaneous blood flow in tetraplegic man during postural changes. K. SKAGEN, K. JENSEN, O. HENRIKSEN and L. KNUDSEN	605–609
Acute haemodynamic and hormonal effects of captopril are diminished by indomethacin. H. WITZGALL, F. HIRSCH, B. SCHERER and P. C. WEBER	611–615
Uptake of L-valyl-L-valine and glycylsarcosine by hamster jejunum <i>in vitro</i> . D. BURSTON, R. A. WAPNIR, E. TAYLOR and D. M. MATTHEWS	617–626
Abnormalities of bile acids in serum and bile from patients with myotonic muscular dystrophy. K. TANAKA, K. TAKESHITA and M. TAKITA	627–642
Sources of bile pigment overproduction in Gilbert's syndrome: studies with non-radioactive bilirubin kinetics with δ -[3,5- ³ H]aminolaevulinic acid and [2- ¹⁴ C]glycine. M. L. ZENEROLI, V. PIAGGI, C. CREMONINI, C. GOZZI and E. VENTURA	643–649
Duodenal perfusion with sodium taurocholate inhibits biliary but not pancreatic secretion in man. Ó. G. BJÖRNSSON, D. R. FLETCHER, N. D. CHRISTOFIDES, S. R. BLOOM and V. S. CHADWICK	651–659
Plasma histamine and catecholamines in stable asthmatic subjects. P. J. BARNES, P. W. IND and M. J. BROWN	661–665
Tubular function in glycerol-induced acute renal failure in rats: effect of saline loading and prior acute renal failure. C. WESTENFELDER, P. A. CRAWFORD, R. K. HAMBURGER, R. L. BARANOWSKI and N. A. KURTZMAN	667–676
Set-point displacement for behavioural thermoregulation in anorexia nervosa. P. LUCK and A. WAKELING	677–682
SHORT COMMUNICATION	
Myofibrillar protein catabolic rates in cirrhotic patients with and without muscle wasting. M. ZOLI, G. MARCHESINI, CRISTINA DONDI, G. P. BIANCHI and E. PISI	683–686