

CONTENTS

VOL. 57, No. 1

JULY 1979

Intestinal transport of a tetrapeptide, L-leucylglycylglycylglycine, in rat small intestine <i>in vivo</i> . Y. C. CHUNG, D. B. A. SILK and Y. S. KIM	1-11
Evidence that the acute cardiovascular response to isoprenaline is partly mediated via renin release. G. H. ANDERSON JR	13-18
Effects of diphosphonate and colchicine administration upon acid-base changes induced in rats by bilateral nephrectomy. AILSA GOULDING and M. F. BROOM	19-23
Neurogenic activity-angiotensin II interaction during the development and maintenance of renal hypertension in the rat. G. BELLINI, R. FIORENTINI, M. FERNANDES, G. ONESTI, H. HESSAN, A. B. GOULD, M. BIANCHI, K. E. KIM and C. SWARTZ	25-29
Clinical and electrophysiological studies of peripheral nerve function in patients with chronic liver disease. M. H. MORGAN, A. E. READ and M. J. CAMPBELL	31-37
Histamine, basophils and eosinophils in severe asthma. T. J. CHARLES, S. J. WILLIAMS, A. SEATON, CHRISTINE BRUCE and W. H. TAYLOR	39-45
Plasma renin activity and sodium, potassium and water excretion during reversal of hypertension in the one-clip, two-kidney hypertensive rat. R. G. M. TEN BERG, F. H. H. LEENEN and W. DE JONG	47-52
Antihypertensive effect of prolonged blockade of angiotensin formation in benign and malignant, one- and two-kidney Goldblatt hypertensive rats. R. G. BENGIS and T. G. COLEMAN	53-62
Studies on porphyrin biosynthesis and the enzymes involved in bovine congenital erythropoietic porphyria. ALCIRA M. DEL BATLLE, EVA A. WIDER DE XIFRA, ANA MARIA STELLA, NORMA BUSTOS and T. K. WITH	63-70
Absence of adrenergic mediation of agonist response to [Sar ¹ ,Ala ⁸]angiotensin II in conscious normotensive and hypertensive dogs. B. G. ZIMMERMAN	71-81
The composition of low-density lipoprotein and very-low-density lipoprotein sub-fractions in primary hypothyroidism and the effect of hormone-replacement therapy. FIONA C. BALLANTYNE, A. A. EPEMETOS, MURIEL CASLAKE, S. FORSYTHE and D. BALLANTYNE	83-88
A comparison of chromium sesquioxide and [⁵¹ Cr]chromic chloride as inert markers in calcium balance studies. R. HESP, D. WILLIAMS, M. RINSLER and J. REEVE	89-92
Fractured neck of femur in the elderly: an attempt to identify patients at risk. R. WOOTTON, P. J. BRERETON, M. B. CLARK, R. HESP, H. M. HODKINSON, L. KLENERMAN, J. REEVE, G. SLAVIN and M. TELLEZ-YUDILEVICH	93-101
Effect of decrease in bicarbonate concentration on metabolism of the isolated perfused rat kidney B. D. ROSS and R. L. TANNEN	103-111
Characteristics of renal handling of human immunoglobulin light chain by the perfused rat kidney. J. F. FALCONER SMITH, R. I. VAN HEGAN, M. P. ESNOUF and B. D. ROSS	113-120
SHORT COMMUNICATIONS	
Vitamin D and magnesium absorption in man. A. HODGKINSON, D. H. MARSHALL and B. E. C. NORDIN	121-123

Effect of intravenous sodium lactate on renal tubular reabsorption of phosphate in man. R. J. WALTON	125-127
--	---------

VOL. 57, No. 2

AUGUST 1979

Editorial Review: Consequences of impaired splenic function. A. W. BULLEN and M. S. LOSOWSKY	129-137
Distribution of endogenous cobalamin between the transcobalamins in various mammals. J. C. LINNELL, LENA COLLINGS, MARGARET C. DOWN and J. M. ENGLAND	139-144
Measurement of water distribution and transcapillary solute flux in dog lung by external radioactivity counting. J. S. PRICHARD and G. DE J. LEE	145-154
Heparin-released plasma lipases in chronic renal failure and after renal transplantation. G. A. CRAWFORD, E. SAVDIE and J. H. STEWART	155-165
Parathyroid function in primary osteoporosis. R. BOUILLON, P. GUESENS, J. DEQUEKER and P. DE MOOR	167-171
Evidence for the local occurrence of angiotensin II in rat kidney and its modulation by dietary sodium intake and converting enzyme blockade. F. A. O. MENDELSON	173-179
Subcellular fractionation studies of the intestinal mucosa in congenital sucrose-isomaltase deficiency. B. T. COOPER, D. C. A. CANDY, J. T. HARRIES and T. J. PETERS	181-185
Urine reinfusion diuresis and natriuresis in rats: role of water, electrolytes and urea. R. A. NORMAN, JR, T. G. COLEMAN and P. R. KASTNER	187-193
Effect of chronic clonidine treatment and its abrupt cessation on mean blood pressure of rats with a normal or an elevated blood pressure. J. ATKINSON, NICOLE BOILLAT, ROSELYNE PERA-BALLY, LISE PETERS-HAEFELI and E. J. KIRCHERTZ	195-201
Dependence of deoxycorticosterone/salt hypertension in the rat on the activity of adrenergic cardiac nerves. C. BELL and ELSPETH M. MCLACHLAN	203-210
Cysteine-homocysteine mixed disulphide: differing plasma concentrations in normal men and women. D. E. L. WILCKEN and V. J. GUPTA	211-215

SHORT COMMUNICATIONS

Superficial or membrane digestion of peptides in dinitrophenol-inhibited rat small intestine. M. L. G. GARDNER	217-220
Protein synthesis in isolated human skeletal muscle tissue: evaluation of an experimental model. K. LUNDHOLM and T. SCHERSTÉN	221-223

VOL. 57, No. 3

SEPTEMBER 1979

Sodium excretion in man, and adaptation to a low-sodium diet: effect of intravenous sodium chloride. D. GORDON and W. S. PEART	225-231
Effect of acid, trypsin and cold treatment and of renin-plasma interaction on the activity of renin secreted by rat kidney. H. NAKANE, Y. NAKANE, P. CORVOL and J. MENARD	233-240
Effects of β -adrenoreceptor antagonists on sino-aortic baroreflex sensitivity and blood pressure in hypertensive man. R. D. S. WATSON, T. J. STALLARD and W. A. LITTLER	241-247

Changes in blood glucose and plasma insulin after intravenous galactose in human injury. M. ELIA, W. L. OPPENHEIM, R. SMITH, VERA ILIC and D. H. WILLIAMSON	249-256
Effect of vitamin D deficiency on sarcoplasmic reticulum function and troponin C concentration of rabbit skeletal muscle. JENNIFER J. POINTON, M. J. O. FRANCIS and R. SMITH	257-263
Biochemical discrimination of Hurler and Scheie syndromes. J. J. HOPWOOD and VIVIENNE MULLER	265-272
SHORT COMMUNICATIONS	
Effect of age on hypertensive stimuli and the development of hypertension in Brattleboro rats. H. DLOUHÁ, J. KŘEČEK and J. ZICHA	273-275
Peptiduria in experimental Fanconi syndrome in rats. A. M. ASATOOR, M. R. BENDING and M. D. MILNE	277-279
Comparison of ¹⁵ N-labelled glycine, aspartate, valine and leucine for measurement of whole-body protein turnover. M. TARUVINGA, A. A. JACKSON and M. H. N. GOLDEN	281-283
The effect of high animal protein intake on the risk of calcium stone-formation in the urinary tract. W. G. ROBERTSON, P. J. HEYBURN, M. PEACOCK, F. A. HANES and R. SWANINATHAN	285-288
MEDICAL RESEARCH SOCIETY (Meeting on 6 and 7 July 1979)	
Communications	1P-31P

VOL. 57, No. 4

OCTOBER 1979

Editorial Review: Characterization of sodium-transport disorders in disease: different effects upon sodium and potassium of changes in the sodium pump and in membrane permeability. J. PATRICK and P. J. HILTON	289-293
Mucosal enzymes in human inflammatory bowel disease with reference to neutrophil granulocytes as mediators of tissue injury. S. P. KANE and A. C. VINCENTI	295-303
The role of the colon in the pathogenesis of hyperchloraemic acidosis in ureterosigmoid anastomosis. J. B. MCCONNELL, J. MURISON and W. K. STEWART	305-312
The adenylate cyclase system in human liver: characterization, subcellular distribution and hormonal sensitivity in normal or cirrhotic adult, and in foetal liver. F. PECKER, P. DUVALDESTIN, P. BERTHELOT and J. HANOUNE	313-325
The role of dietary lipid in the regulation of unconjugated hyperbilirubinaemia in Gunn rats. J. L. GOLLAN, D. R. HOLE and BARBARA H. BILLING	327-337
Choice of control groups in the appraisal of sympathetic nervous activity in essential hypertension. D. H. JONES, CARLENE A. HAMILTON and J. L. REID	339-344
Characteristics of a renin-binding substance for the conversion of renin into a higher-molecular-weight form in the dog. MINORU KAWAMURA, FUMIHIKO IKEMOTO, SUSUMU FUNAKAWA and KENJIRO YAMAMOTO	345-350
Activation of inactive plasma renin by plasma and tissue kallikreins. F. H. M. DERKX, H. L. TAN-TJONG, A. J. MAN IN 'T VELD, M. P. A. SCHALEKAMP and M. A. D. H. SCHALEKAMP	351-357
Effect of indomethacin on blood pressure in the normotensive unanaesthetized rabbit: possible relation to prostaglandin synthesis inhibition. J. COLINA-CHOURIO, J. C. MCGIFF and A. NASJLETTI	359-365

- Effect of phlorhizin on renal glucose and phosphate transport in the dog. SUNG-FENG WEN 367-374
- Muscle relaxation rate, fibre-type composition and energy turnover in hyper- and hypo-thyroid patients. C. M. WILES, A. YOUNG, D. A. JONES and R. H. T. EDWARDS 375-384

VOL. 57, No. 5

NOVEMBER 1979

- Carbon dioxide equilibration in canine lungs during rebreathing and acute alkalosis. R. D. LATIMER and E. LASZLO 385-388
- Changes in arterial blood gases during and after a period of oxygen breathing in patients with chronic hypercapnic respiratory failure and in patients with asthma. M. RUDOLF, J. A. McM. TURNER, B. D. W. HARRISON, J. F. RIORDAN and K. B. SAUNDERS 389-396
- A method for standardizing airway resistance for variations in lung volume. T. HIGENBOTTAM and T. J. H. CLARK 397-400
- Effect of isoprenaline on the plasma concentrations of angiotensin III in rats. D. K. MEYER, M. EISENREICH and D. NUTTO 401-407
- Dissociation in the excretion of different aldosterone metabolites and unmetabolized ('free') aldosterone in hypertension. S. ABDELHAMID, P. VECSEI, D. HAACK, K.-H. GLESS, D. WALB, K. LICHTWALD and P. FIEGEL 409-414
- Effect of ouabain in therapeutic concentrations on K⁺ exchange and contraction of human and rabbit myocardium. P. A. POOLE-WILSON, E. GALINDEZ and C. H. FRY 415-420
- Are mineralocorticoid receptors present in human renal adenocarcinoma? M. E. RAFESTIN-OBLIN, C. ROTH-MEYER, M. CLAIRE, A. MICHAUD, E. BAVIERA, J. M. BRISSET and P. CORVOL 421-425
- A micropuncture study of proximal tubular function after acute hydrochlorothiazide administration to Brattleboro rats with diabetes insipidus. S. J. WALTER, J. F. LAYCOCK and D. G. SHIRLEY 427-434
- Distribution of circulating immunoreactive components of parathyroid hormone in normal subjects and in patients with primary and secondary hyperparathyroidism: the role of the kidney and of the serum calcium concentration. M. A. DAMBACHER, J. A. FISCHER, W. H. HUNZIKER, W. BORN, J. MORAN, H.-R. ROTH, E. E. DELVIN and F. H. GLORIEUX 435-443
- Study of the oligosaccharide units from mucus glycoproteins of meconium from normal infants and from cases of cystic fibrosis with meconium ileus. J. R. CLAMP and M. GOUGH 445-451
- Lactoferrin turnover in man. R. M. BENNETT and THERESA KOKOCINSKI 453-460

SHORT COMMUNICATIONS

- Studies on the renin-angiotensin-aldosterone system in elderly hypertensive patients with an angiotensin II antagonist. T. OGIHARA, T. HATA, ANNA MARUYAMA, H. MIKAMI, M. NAKAMARU, T. MANDAI and Y. KUMAHARA 461-463
- Effect of propranolol on the ventilatory response to hypercapnia in man. P. W. TREMBATH, ELIZABETH A. TAYLOR, J. VARLEY and P. TURNER 465-468
- Effect of general anaesthesia on renal haemodynamics in the rat. B. M. KOEPPEN, A. I. KATZ and M. D. LINDHEIMER 469-471
- Plasma 25-hydroxy-vitamin D in normal subjects and patients with terminal renal failure, on maintenance haemodialysis and after transplantation. J. B. EASTWOOD, A. DALY, G. D. CARTER, J. ALAGHBAND-ZADEH and H. E. DE WARDENER 473-476

Mathematical analysis of the diagnostic relevance of clinical findings. D. E. H. LLEWELYN 477-479

VOL. 57, No. 6

DECEMBER 1979

Editorial Review: Effects of alcohol on hepatic metabolism: selected aspects. M. F. SORRELL and D. J. TUMA 481-489

Gilbert's syndrome: analytical subcellular fractionation of liver biopsy specimens. Enzyme activities, organelle pathology and evidence for subpopulations of the syndrome. J. DAWSON, C. A. SEYMOUR and T. J. PETERS 491-497

Radiolabelled bile acid clearance in control subjects and patients with liver disease. L. R. ENGELKING, S. BARNES, C. A. DASHER, D. C. NAFTEL and B. I. HIRSCHOWITZ 499-508

Clonidine and sympathetic activity during sleep. T. J. B. MALING, C. T. DOLLERY and C. A. HAMILTON 509-514

Impairment of flow in routine gravity-fed intravenous infusions to surgical patients. E. W. CLARKE, J. P. JAMISON and J. B. QARTEY-PAPAFIO 515-520

Interaction of amino acids with glycyl-L-leucine hydrolysis and transport in monkey small intestine. V. GANAPATHY and A. N. RADHAKRISHNAN 521-527

Release of dipeptide hydrolase activities from rat small intestine perfused *in vitro* and *in vivo*. M. L. G. GARDNER and JANE A. PLUMB 529-534

Muscle protein degradation in premature human infants. F. J. BALLARD, F. M. TOMAS, L. M. POPE, P. G. HENDRY, B. E. JAMES and R. A. MACMAHON 535-544

SHORT COMMUNICATIONS

Plasma noradrenaline concentrations at different vascular sites during rest and isometric and dynamic exercise. R. D. S. WATSON, A. J. F. PAGE, W. A. LITTLER, D. H. JONES and J. L. REID 545-547

The effect of pentobarbitone on plasma and intracellular sodium, potassium and pH in rabbit cardiac and skeletal muscle. R. J. C. HALL and I. R. CAMERON 549-551