

# CONTENTS

VOL. 60, No. 1

JANUARY 1981

Guidance for Authors	i-x
<hr/>	
<b>Editorial Review: Pulmonary oedema. J. BUTLER</b>	1-4
<hr/>	
Effect of morphine on limb capacitance and resistance vessels. R. A. COHEN and J. D. COFFMAN	5-9
Influence of breath holding at total lung capacity on maximal expiratory flow measurements. T. HIGENBOTTAM and T. J. H. CLARK	11-15
Comparison of ventilation/perfusion lung-imaging and dead-space measurements in airway disease. M. I. M. NOBLE, F. LANGLEY, M. BUCKMAN, P. VERNON, A. SEED, R. JEWKES, A. BISDEE and G. CUMMING	17-23
The sympathetic nervous system and the renin-angiotensin system in borderline hypertension. J. W. HENQUET, T. KHO, M. SCHOLS, H. THIJSSSEN and K. H. RAHN	25-31
The effect of prolonged administration of propranolol and timolol on the growth and the heart of growing rabbits. K. L. EVELY, P. CUMMINS and W. A. LITTLER	33-40
Renin in the mouse kidney has a molecular weight of 40000. K. POULSEN and A. H. NIELSEN	41-46
Clearance of fibrin from glomeruli. Renal cortical fibrinolytic response after thromboplastin infusion in the rat. A. SANCHEZ-IBARROLA, S. QAZZAZ and P. NAISH	47-53
Comparison of radioisotope methods for the measurement of phosphate absorption in normal subjects and in patients with chronic renal failure. K. FARRINGTON, M. N. MOHAMMED, S. P. NEWMAN, Z. VARGHESE and J. F. MOORHEAD	55-63
Direct measurement of hepatic extraction of bile acids in subjects with and without liver disease. I. T. GILMORE and R. P. H. THOMPSON	65-72
Impaired lipoprotein lipase activation by uraemic and post-transplant sera. G. A. CRAWFORD, J. F. MAHONY and J. H. STEWART	73-80
Effect of a long-term fat-modified diet on serum lipoprotein levels of cholesterol and triglyceride in patients on home haemodialysis. V. J. WASS, R. J. JARRETT, V. MEILTON, M. K. START, M. MATTOCK, C. S. OGG and J. S. CAMERON	81-86
The turnover of plasma glucose and free fatty acids <i>in vivo</i> after portacaval anastomosis and chronic underfeeding in the rat. G. S. SARNA, V. J. CUNNINGHAM, SHERON TUCKER and JILL E. CREMER	87-93
A comparison of the effects of intravenous infusion of individual branched-chain amino acids on blood amino acid levels in man. S. ERIKSSON, L. HAGENFELDT and J. WAHREN	95-100
Effect of hydrochlorothiazide on 1,25-dihydroxyvitamin D <sub>3</sub> -induced changes in calcium metabolism in experimental hypoparathyroidism in rats. R. RIZZOLI, K. HUGI, H. FLEISCH and J.-P. BONJOUR	101-107
Simple method of assessing splenic function in coeliac disease. G. R. CORAZZA, A. W. BULLEN, R. HALL, P. J. ROBINSON and M. S. LOSOWSKY	109-113
Passive permeability in experimental intestinal damage in rats. I. COBDEN, JILL ROTHWELL and A. T. R. AXON	115-118

<b>Editorial Review:</b> Inactive renin: an attempt at a perspective. B. J. LECKIE	119-130
<b>Editorial Review:</b> Tropical malabsorption: recent concepts in pathogenesis and nutritional significance. A. TOMKINS	131-137
<hr/>	
Influence of sympatholytic drugs on the cardiovascular response to isometric exercise. S. J. WATT, R. D. THOMAS, P. W. BELFIELD, P. W. GOLDSTRAW and S. H. TAYLOR	139-143
Role of sensory nerves in the cardiovascular and respiratory changes with isometric forearm exercise in man. G. DUNCAN, R. H. JOHNSON and D. G. LAMBIE	145-155
Local regulation of blood flow in subcutaneous tissue in patients with acute myocardial infarction. K. SKAGEN, O. HENRIKSEN, O. AMTORP, F. FOG-MØLLER and H. LAM	157-164
Cardiovascular and autonomic reflexes in haemodialysis patients. R. B. NAIK, C. J. MATHIAS, C. A. WILSON, J. L. REID and D. J. WARREN	165-170
Tubular handling of phosphate along the nephron of thyroparathyroidectomized rats injected with ethane-1-hydroxy-1,1-diphosphonate. R. C. MÜHLBAUER, J.-P. BONJOUR and H. FLEISCH	171-177
Human saliva and semen: evidence for proteins common to both which do not occur in serum. P. D. ECKERSALL and J. A. BEELEY	179-184
No functional difference of the two iron-binding sites of human transferrin <i>in vitro</i> . C. VAN DER HEUL, M. J. KROOS, W. L. VAN NOORT and H. G. VAN EIJK	185-190
Cytosine arabinoside deamination in human leukaemic myeloblasts and resistance to cytosine arabinoside therapy. A. L. HARRIS, D. G. GRAHAME-SMITH, C. G. POTTER and C. BUNCH	191-198
Purification and characterization of kallikrein from plasma of patients with acute pancreatitis. NAOTIKA TOKI, HIROYUKI SUMI and SUMIYOSHI TAKASUGI	199-205
Hepatic organelle pathology in primary biliary cirrhosis and the response to low-dose D-penicillamine therapy. J. SCOTT, W. JENKINS, G. P. SMITH and T. J. PETERS	207-212
 <b>SHORT COMMUNICATIONS</b>	
Effect of head-up tilt on subcutaneous blood flow during the course of acute myocardial infarction. K. SKAGEN	213-216
Age-dependence of noradrenaline kinetics in normal subjects. M. ESLER, H. SKEWS, P. LEONARD, G. JACKMAN, A. BOBIK and P. KORNER	217-219
Effect of acute and chronic alcohol ingestion on the rate of folate catabolism and hepatic enzyme induction in mice. D. KELLY, B. REED, D. WEIR and J. M. SCOTT	221-224
Immunological responses to training in conditioned runners. P. G. HANSON and D. K. FLAHERTY	225-228
Intra-erythrocyte sodium and (Na <sup>+</sup> , K <sup>+</sup> -activated)-ATPase concentration and urinary aldosterone excretion in spontaneously hypertensive rats. G. BERGLUND, L. SIGSTRÖM, S. LUNDIN, B. E. KARLBERG and H. HERLITZ	229-232
Development of a technique for measuring the oxidation rate of a <sup>14</sup> C-labelled substrate from <sup>14</sup> CO <sub>2</sub> production without the need for collection of expired air. M. B. CLAGUE, M. J. KEIR and P. D. WRIGHT	233-235
The relationship between leucocyte and muscle zinc in health and disease. R. B. JONES, P. W. N. KEELING, P. J. HILTON and R. P. H. THOMPSON	237-239

- Comparison of the appearance of radiolabelled vitamin D<sub>3</sub> and 25-hydroxy-vitamin D<sub>3</sub> in the chylomicron fraction of plasma after oral administration in man. JULIET E. COMPSTON, ANNE L. MERRETT, F. G. HAMMETT and P. MAGILL 241-243

## CORRESPONDENCE SECTION

- Hydrogen ion balance in exercise. R. D. COHEN and R. A. ILES 245-246

VOL. 60, No. 3

MARCH 1981

- 
- Editorial Review:** The importance of clinical pharmacology in drug development. C. F. GEORGE 247-250
- 
- Radioimmunoassay of human cardiac tropomyosin in acute myocardial infarction. P. CUMMINS, B. MCGURK and W. A. LITTLER 251-259
- Different distributions of kinetically apparent molecular varieties of  $\alpha_2$ -macroglobulin in health and in patients with cryptogenic fibrosing alveolitis. R. M. TOPPING, A. H. CRAVEN, SUSAN WHITING, B. G. RIGDEN, M. TURNER-WARWICK and C. W. G. TURTON 261-265
- Aggravation of hypertension in spontaneously hypertensive rats by Heymann nephritis. I. TIKKANEN, A. MIETTINEN, F. FYHRQUIST and T. TÖRNROTH 267-272
- Renal phosphate adaptation in uraemic dogs with a remnant kidney. S.-F. WEN and R. W. STOLL 273-282
- Blood-volume expansion in the rat: natriuresis accompanied by a fall in filtration fraction. D. QUERIDO and L. C. ISAACSON 283-293
- Lipid peroxidation in iron-overloaded spleens. A. D. HEYS and T. L. DORMANDY 295-301
- Evidence of altered copper metabolism in patients with chronic pancreatitis. JOAN M. BRAGANZA, H. J. KLASS, M. BELL and G. STURNIOLO 303-310
- Total body potassium in relation to thyroid hormones and hyperthyroidism. C. J. EDMONDS and T. SMITH 311-318
- Protein degradation in human skeletal muscle tissue: the effect of insulin, leucine, amino acids and ions. K. LUNDHOLM, S. EDSTRÖM, L. EKMAN, I. KARLBERG, P. WALKER and T. SCHERSTÉN 319-326
- SHORT COMMUNICATIONS**
- Portal vein prostacyclin activity in experimental portal hypertension in rats. G. HAMILTON, I. ROSZA, R. HUTTON, F. P. R. CHOW, P. DANDONA and K. E. F. HOBBS 327-329
- Identification of *N*-monoacetylcystine in uraemic plasma. F. GEJYO, G. ITO and Y. KINOSHITA 331-334
- Total body-glucose turnover in normal and intra-uterine growth-retarded neonatal piglets. P. A. FLECKNELL, R. WOOTTON and MURIEL JOHN 335-338
- Human parathyroid gland adenylate cyclase activity: inhibition by 24,25-dihydroxy-cholecalciferol *in vitro*. J. F. CLOIX, A. ULMANN, J. D. MONET and J. L. FUNCK-BRENTANO 339-341
- MEDICAL RESEARCH SOCIETY (Meeting on 16 and 17 January 1981)**  
Communications 1P-32P

<b>Editorial Review:</b> Adrenergic facilitation by angiotensin: does it serve a physiological function? B. G. ZIMMERMAN	343-348
<b>Editorial Review:</b> Gut hormones and the first meals. A. LUCAS, A. AYSLEY-GREEN and S. R. BLOOM	349-353
<hr/>	
Liver blood flow and oxygen consumption during metabolic acidosis and alkalosis in the greyhound. R. L. HUGHES, R. T. MATHIE, W. FITCH and D. CAMPBELL	355-361
The role of histamine receptors in asthma. NOEMI M. EISER, JANE MILLS, P. D. SNASHALL and A. GUZ	363-370
Cardiac function in chronic bronchitis: effects of pacing and plasma expansion. H. VALETTE, B. RAFFESTIN and A. LOCKHART	371-375
Angiotensin II and sodium as determinants of the agonistic-antagonistic balance of saralasin's actions. R. FAGARD, A. AMERY and P. LUNEN	377-385
Effect of the converting-enzyme inhibitor SQ 14 225 (captopril) in early one-kidney, one-clip hypertension in the rat. R. VANDONGEN, ANNE TUNNEY and PATRICIA MARTINEZ	387-392
Inactive renin in rabbit plasma: effect of frusemide. H. K. RICHARDS, D. J. LUSH, A. R. NOBLE and K. A. MUNDAY	393-398
Renin and aldosterone release during sympathetic stimulation in tetraplegia. C. J. MATHIAS, H. L. FRANKEL, I. B. DAVIES, V. H. T. JAMES and W. S. PEART	399-404
Effect of chronic and acute changes in sodium balance on the urinary excretion of prostaglandins E <sub>2</sub> and F <sub>2α</sub> in normal man. M. RATHAUS, E. PODJARNY, E. WEISS, M. RAVID, SARA BAUMINGER and J. BERNHEIM	405-410
Urine composition in normal subjects after oral ingestion of oxalate-rich foods. A. M. FINCH, G. P. KASIDAS and G. A. ROSE	411-418
Role of the malate-aspartate shuttle in renal sodium transport in the rat. B. ROSS, PATRICIA SILVA and SARAH BULLOCK	419-426
Effect of parathyroid hormone on bicarbonate secretion in the guinea-pig stomach and the amphibian isolated gastric mucosa. G. FLEMSTRÖM and A. GARNER	427-433
Analytical fractionation of human liver microsomal fractions: localization of cholesterol and of the enzymes relevant to its metabolism. S. BALASUBRAMANIAM, K. A. MITROPOULOS, S. VENKATESAN, N. B. MYANT, T. J. PETERS, A. POSTIGLIONE and M. MANCINI	435-439
Effect of chronic dietary potassium depletion and repletion on cardiac and skeletal muscle structure, electrolytes and pH in the rabbit. R. J. C. HALL and I. R. CAMERON	441-449
Activities of hexokinase, phosphofructokinase, fructose bisphosphatase and 2-oxoglutarate dehydrogenase in muscle of normal subjects and very ill surgical patients. R. F. G. J. KING, J. MACFIE and G. HILL	451-456
Effects of methandienone on the performance and body composition of men undergoing athletic training. G. R. HERVEY, A. V. KNIBBS, L. BURKINSHAW, D. B. MORGAN, P. R. M. JONES, D. R. CHETTLER and D. VARTSKY	457-461
<b>SHORT COMMUNICATIONS</b>	
The effect of respiratory muscle fatigue on respiratory sensations. S. C. GANDEVIA, K. J. KILLIAN and E. J. M. CAMPBELL	463-466
Inner medullary osmolality and sodium concentration are decreased in rats during escape from DOCA-induced salt retention. R. DÜSING, R. WILKE, A. KÖRBER, D. KLINGMÜLLER and H. J. KRAMER	467-469

<b>Editorial Review: Neurogenic hypertension revisited.</b> C. J. DICKINSON	471-477
<b>Renin response to volume contraction and indomethacin in spontaneously hypertensive rats.</b> J. L. CANGIANO, CARMEN RODRIGUEZ-SARGENT, L. NASCIMENTO and M. MARTÍNEZ-MALDONADO	479-482
<b>Plasma noradrenaline concentration and <math>\alpha</math>-adrenoceptor-mediated vasoconstriction in normotensive and hypertensive man.</b> W. KIWOSKI, F. R. BÜHLER, P. VAN BRUMMELEN and F. W. AMANN	483-489
<b>Opposite effects of captopril on angiotensin I-converting enzyme 'activity' and 'concentration'; relation between enzyme inhibition and long-term blood pressure response.</b> F. BOOMSMA, J. H. B. DE BRUYN, F. H. M. DERKX and M. A. D. H. SCHALEKAMP	491-498
<b>Dependence of transcutaneous oxygen tension on local arteriovenous pressure gradient in normal subjects.</b> C. R. WYSS, F. A. MATSEN III, RACHEAL V. KING, C. W. SIMMONS and E. M. BURGESS	499-506
<b>Serial estimations of carbon monoxide diffusing capacity in intrapulmonary haemorrhage.</b> A. P. GREENING and J. M. B. HUGHES	507-512
<b>The contribution of upper airway and inspiratory muscle mechanisms to the detection of pressure changes at the mouth in normal subjects.</b> S. C. GANDEVIA, K. J. KILLIAN and E. J. M. CAMPBELL	513-518
<b>Postprandial thermogenesis in obesity.</b> P. S. SHETTY, R. T. JUNG, W. P. T. JAMES, M. A. BARRAND and B. A. CALLINGHAM	519-525
<b>Caffeine: its effect on catecholamines and metabolism in lean and obese humans.</b> R. T. JUNG, P. S. SHETTY, W. P. T. JAMES, M. A. BARRAND and B. A. CALLINGHAM	527-535
<b>The effect of combined ischaemia and acidosis on lactate uptake and gluconeogenesis in the perfused rat liver.</b> R. A. ILES, R. D. COHEN and P. G. BARON	537-542
<b>The effect of adrenaline on hepatic lactate uptake in the acidotic partially ischaemic rat liver.</b> R. A. ILES, R. D. COHEN, P. G. BARON, J. A. SMITH and R. M. HENDERSON	543-548
<b>Effect of magnesium deficiency and excess on renal tubular potassium transport in the rat.</b> S. L. CARNEY, N. L. M. WONG and J. H. DIRKS	549-554
<b>Relations between sodium transport and sodium concentration in human erythrocytes in health and disease.</b> M. CUMBERBATCH and D. B. MORGAN	555-564
<b>Deamination of adenosine 5'-phosphate and adenosine as a possible source of ammonia in human and bovine parotid glands.</b> Z. BEREZNOWSKI, A. STANKIEWICZ and W. MAKAREWICZ	565-569
<b>Age-related decrease in cardiac and peripheral vascular responsiveness to isoprenaline: studies in normal subjects.</b> P. VAN BRUMMELEN, F. R. BÜHLER, W. KIWOSKI and F. W. AMANN	571-577
<b>Airway and metabolic responsiveness to intravenous salbutamol in asthma: effect of regular inhaled salbutamol.</b> J. E. HARVEY, C. J. BALDWIN, P. J. WOOD, K. G. M. M. ALBERTI and A. E. TATTERSFIELD	579-585
<b>SHORT COMMUNICATIONS</b>	
<b>The effect of aging on <math>\beta</math>-adrenoceptor-stimulated cyclic AMP formation in human lymphocytes.</b> C. A. KRAFT and C. M. CASTLEDEN	587-589
<b>Captopril combined with thiazide lowers renin substrate concentration: implications for methodology in renin assays.</b> S. RASMUSSEN, M. DAMKJAER NIELSEN and J. GIESE	591-593

- Effects of rest, exercise and warming on serum creatine kinase levels in primary hypothyroidism. B. P. O'MALLEY, T. J. DAVIES and F. D. ROSENTHAL 595-597

VOL. 60, No. 6

JUNE 1981

- 
- Editorial Review:** Altitude and the human pulmonary circulation. A. LOCKHART and B. SAIAG 599-605

- Editorial Review:** Peptide transport. D. B. A. SILK 607-615
- 

- The relative amounts of the collagen chains  $\alpha 1(I)$ ,  $\alpha 2$  and  $\alpha 1(III)$  in the skin of 31 patients with osteogenesis imperfecta. M. K. O. FRANCIS, K. J. WILLIAMS, B. C. SYKES and R. SMITH 617-623

- Effects of salt and water depletion on the early phase of hypertension in Goldblatt two-kidney hypertensive dogs. M. L. WATSON, J. MCCORMICK, A. THOM, P. WHELPDALE and A. UNGAR 625-631

- Proteinase activity of human renin preparations: the International Reference Preparation (Renin Standard 68/356). G. POURMOTABBED, H. J. CHOU, R. J. WORKMAN and R. I. GREGERMAN 633-637

- Properties of a renin inhibitor isolated from the pig kidney cortex. G. A. SAGNELLA and W. S. PEART 639-651

- Regional blood flow in borderline and sustained essential hypertension. M. M. TEMMAR, M. E. SAFAR, J. A. LEVENSON, J. M. TOTOMOUKOUO and A. CH. SIMON 653-658

- A method for assessing responses of small arteries in man: effect of physiological and pharmacological stimuli. B. F. ROBINSON, R. J. DOBBS, C. R. KELSEY and S. SAVERYMUTTU 659-666

- The effects of sustained lung inflation on the pattern of breathing in man. S. B. PEARSON and J. R. HEATH 667-674

- Systemic and forearm haemodynamic and metabolic effects of racemic propranolol or D-propranolol in healthy subjects. O. J. HARTLING, T. LYSBO SVENDSEN and J. TRAP-JENSEN 675-679

- Metabolism of antithrombin III in cirrhosis and carcinoma of the liver. VIVIAN CHAN, C. L. LAI and T. K. CHAN 681-688

- Pubertal induction of sweat gland activity. J. REES and S. SHUSTER 689-692

- Normal urinary protein composition in the female Wistar rat and its relationship to the proteinuria induced by intraperitoneal bovine albumin. GILLIAN M. LAWRENCE and D. B. BREWER 693-702

#### SHORT COMMUNICATIONS

- Effect of haemorrhage on renin concentration in superficial and deep venous outflows of the cat kidney. SUSAN M. JONES and J. TORRETTI 703-706

- Differential toxicity and pharmacokinetics of sodium and Tris salts of 5-fluorouracil in the rat. JANE A. PLUMB and M. L. G. GARDNER 707-710