CONTENTS

Vol. 67, No. 1  July 1984

EDITORIAL REVIEWS

Plexogenic pulmonary hypertension of unknown origin. What's new?
A. LOCKHART and J. T. REEVES 1-5

The contribution of reflex inhibition to arthrogenous muscle weakness
M. STOKES and A. YOUNG 7-14

Contributors to Medical Science: Sir George Pickering (1904–1982)
W. S. PEART 15-18

Pathogenicity of cationized albumin in the dog: renal and extrarenal effects
P. P. LAMBERT, M. DORIAUX, J. SENNESAELE, R. VANHOLDER and M. LAMMENS-VERSLIJPE 19-33

Plasma clearance, tissue distribution and catabolism of cationized albumins with increasing isoelectric points in the rat
P. BERGMANN, R. KACENKLENGEBOGEN and A. VIZET 35-43

Role of the splanchnic bed in extracting circulating adrenaline and noradrenaline in normal subjects and in patients with cirrhosis of the liver
U. KELLER, P. P. G. GERBER, F. R. BÜHLER and W. STAUFFACHER 45-49

β-Adrenoceptors and responsiveness in cardiac hypertrophy associated with renal hypertension in renovascular hypertensive rats
M. HANI AYOBE and R. C. TARAZI 51-59

The biliary excretion of sulphated and non-sulphated bile acids and bilirubin in patients with external bile drainage
J. S. DOOLEY, C. BARTHOLOMEO, J. A. SUMMERFIELD and B. H. BILLING 61-68

Forearm arterial compliance: the validation of a plethysmographic technique for the measurement of arterial compliance
D. FITCHETT, J. D. BOUTHIER, A. CH. SIMON, J. A. LEVENSON and M. E. SAFAR 69-72

Whole body cellular and collagen nitrogen in healthy and wasted man

A paradoxical fall in urine dopamine output when patients with essential hypertension are given added dietary salt
J. N. HARVEY, I. F. CASSON, A. D. CLAYDEN, G. F. COPE, C. M. PERKINS and M. R. LEE 83-88

Nocturnal foot blood flow in patients with arterial insufficiency
R. JELNES and K. H. TØNNESEN 89-95

Post-exercise reduction of blood pressure in hypertensive men is not due to acute impairment of baroreflex function
T. BENNETT, R. G. WILCOX and I. A. MACDONALD 97-103

Effect of intraluminal hydrocortisone on solute and water absorption in the human jejunum
T. CRAKE, A. J. CRISP, M. SHEARING, C. O. RECORD and G. I. SANDLE 105-110

Receptor-cyclase coupling protein in erythrocytes of patients with essential hypertension
Z. FARFEL, A. IAINA, H. ELIAHOU and Z. COHEN 111-115

Inhibition of jejunal water and electrolyte absorption by therapeutic doses of clindamycin in man
R. C. SPILLER, B. E. HIGGINS, P. G. FROST and D. B. A. SILK 117-120

Short-term studies on the use of glycerol as an osmotic agent in continuous ambulatory peritoneal dialysis (CAPD)
A. HEATON, M. K. WARD, D. G. JOHNSTON, D. V. NICHOLSON, K. G. M. M. ALBERTI and D. N. S. KERR 121-130

Oxalate absorption and postprandial urine supersaturation in an experimental human model of absorptive hypercalciuria

SHORT COMMUNICATION

The relationship between human adipocyte and monocyte insulin binding
R. TAYLOR, S. J. PROCTOR, O. JAMES, F. CLARK and K. G. M. M. ALBERTI 139-142

CORRESPONDENCE SECTION

Transport of thyroid hormones
R. P. EKINS 143-144
EDITORIAL REVIEWS

Oesophageal motility: recent advances and implications
J. N. BLACKWELL and D.O. CASTELL 145-151

Leukotrienes and the lung
A. G. LEITCH 153-159

Vascular hypersensitivity to noradrenaline: a possible mechanism of hypertension in rats with chronic uraemia
R. R. ZIMLICHMAN, C. CHAIMOVITZ, Y. CHAICHENCO, M. GOLIGORSKY, J. RAPOPORT and J. KAPLANSKI 161-166

Supersensitivity of benzodiazepine receptors in hepatic encephalopathy due to fulminant hepatic failure in the rat: reversal by a benzodiazepine antagonist
M. BARALDI, M. L. ZENEROLI, E. VENTURA, A. PENNE, G. PINELLI, P. RICCI and M. SANTI 167-175

Bile salts, hypotension and obstructive jaundice
A. BOMZON, J. P. M. FINBERG, D. TOVBIN, S. G. Naidu and O. S. BETTER 177-183

The effect of fasting and hypocaloric diets on the functional and metabolic characteristics of rat gastrocnemius muscle
D. MCR. RUSSELL, H. L. ATWOOD, J. SCOTT WHITTAKER, T. ITAKURA, P. M. WALKER, D. A. G. MICKLE and K. N. JEEJEEOHHY 185-194

Factors affecting potassium balance during frusemide administration

A micropuncture and renal clearance study in the rat of the urinary excretion of heparin, chondroitin sulphate and metabolic breakdown products of connective tissue proteoglycans
D. K. Y. SHUM, C. BAYLIS and J. E. SCOTT 205-212

Changes in gastric emptying rates with age
M. HOROWITZ, G. J. MADDERN, B. E. CHATTERTON, P. J. COLLINS, P. E. HARDING and D. J. C. SHEARMAN 213-218

The effect of low-dose dopamine infusion on anterior pituitary hormone secretion in normal female subjects

Within-breath modulation of the triggering of extrasystoles in man
J. M. PATRICK, Z. GIBSON and S. P. HANLEY 225-227

The time course during 36 weeks' endurance training of changes in $\dot{V}O_{2\text{max}}$ and anaerobic threshold as determined with a new computerized method
D. A. SMITH and T. V. O'DONNELL 229-236

Inhibitor binding assay of rat serum angiotensin converting enzyme
I. TIKKANEN, F. FYHRQUIST and T. FORSLUND 237-241

Comparison between short-term renal haemodynamic effects of propranolol and nadolol in essential hypertension: a cross-over study
B. J. Z. DAVIES, J. BRUNTON and D. J. SUMNER 243-248

The rate of purine synthesis de novo in blood mononuclear cells in vitro from patients with familial hyperuricaemic nephropathy
K. D. MACDERMOT, J. ALLSOP and R. W. E. WATTS 249-258

The effects of acute and chronic $\beta$-adrenoceptor blockade on the myofibrillar contractile system in the dog heart
M. K. DAVIES, P. CUMMINS and W. A. LITTLER 259-267

SHORT COMMUNICATION

Ascending brain-stem noradrenergic pathways modulate the renin response to haemorrhage
S. L. LIGHTMAN, K. TODD, B. J. EVERITT, M. J. BROWN and R. C. CAUSON 269-272
EDITORIAL REVIEWS

Transferrin and cellular iron exchange
S. YOUNG and A. BOMFORD 273–278

Exercise in therapy and the life of diabetic patients
F. W. KEMMER and M. BERGER 279–283

The temporal distribution of the 1α,25-dihydroxycholecalciferol receptor in the rat jejunal villus
S. D. H. CHAN and D. ATKINS 285–290

Glycogen metabolism in psoriatic epidermis and in regenerating epidermis
C. S. HARMON and P. J. R. PHIZACKERLEY 291–298

The regulatory roles of liver and kidney in cobalamin (vitamin B₁₂) metabolism in the rat: the uptake and intracellular binding of cobalamin and the activity of the cobalamin-dependent enzymes in response to varying cobalamin supply

Renal excretion of antidiuretic hormone in healthy subjects and patients with renal failure
W. PRUSZCZYNISKI, H. CAILLENS, L. DRIEU, L. MOULONGUET-DOLERIS and R. ARDAILLOU 307–312

Cardiac output, oxygen consumption and renal blood flow in essential hypertension
G. M. LONDON, M. E. SAFAR, J. L. BOUTHIER and R. M. GITELMAN 313–319

Mechanisms of initial blood pressure response to postural change

Glucocorticoid inhibition of mineralocorticoid action in the rat
C. J. KENYON, N. A. SACCOCIO and D. J. MORRIS 329–335

Isolation of micro- and macro-droplet fractions from needle biopsy specimens of human liver and determination of the subcellular distribution of the accumulating liver lipids in alcoholic fatty liver
S. R. CAIRNS and T. J. PETERS 337–345

Sex-related differences in resting and stimulated plasma noradrenaline and adrenaline
L. DAVIDSON, R. VANDONGEN, I. L. ROUSE, L. J. BEILIN and A. TUNNEY 347–352

The effects of a chronic infusion of arginine vasopressin in salt-restricted, water-deprived man

Uptake and metabolism of thyroid hormones by the rat foetus in early pregnancy

Enzymatic activity of renin in plasma of normal and uraemic subjects
T. A. KOTCHEN, T. T. GUYENNE, P. CORVOL and J. MENARD 365–368
## Contents

Vol. 67, No. 4  October 1984

### EDITORIAL REVIEWS

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antidepressant binding sites in brain</td>
<td>P. Slater</td>
<td>369–373</td>
</tr>
<tr>
<td>The chlorpropamide alcohol flush</td>
<td>P. G. Wiles and D. A. Pyke</td>
<td>375–381</td>
</tr>
<tr>
<td>The basal levels of active and inactive plasma renin concentration</td>
<td>T. Fiselier, F. Derkx, L. Monnens, P. van Munster, P. Peer and M. Schalekamp</td>
<td>383–387</td>
</tr>
<tr>
<td>Sex differences in the metabolism of ethanol and acetaldehyde in normal subjects</td>
<td>T. Fiselier, F. Derkx, L. Monnens, P. van Munster, P. Peer and M. Schalekamp</td>
<td>397–401</td>
</tr>
<tr>
<td>Atrial natriuretic factor: sodium transport in human erythrocytes</td>
<td>N. C. Trippodo, F. E. Cole and A. A. Macphee</td>
<td>403–405</td>
</tr>
<tr>
<td>Dependence of urinary prostaglandin E2 excretion on urinary volume rather than solute handling or segmental nephron function in man</td>
<td>S. Kaojarern, P. Chennavasin, A. Burdette, W. B. Campbell and D. Craig Brater</td>
<td>413–420</td>
</tr>
<tr>
<td>Two different types of inactive renin in human plasma: molecular and kinetic properties</td>
<td>Y. Imamura, K. Hiwada and T. Kokubu</td>
<td>421–425</td>
</tr>
<tr>
<td>Circadian rhythms of serum thyrotrophin and body temperature in euthyroid individuals and their responses to warming</td>
<td>B. P. O’Malley, A. Richardson, N. Cook, S. Swart and F. D. Rosenthal</td>
<td>433–437</td>
</tr>
<tr>
<td>The effect of a 48 h fast on the thermoregulatory responses to graded cooling in man</td>
<td>I. A. Macdonald, T. Bennett and R. Sainsbury</td>
<td>445–452</td>
</tr>
</tbody>
</table>

### SHORT COMMUNICATIONS

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angiotensin converting enzyme response to hypoxia in man: its role in altitude acclimatization</td>
<td>J. S. Milledge and D. M. Catley</td>
<td>453–456</td>
</tr>
<tr>
<td>Intracellular pH and electrolytes in human skeletal muscle during adrenaline and insulin infusions</td>
<td>K. Sahlin, J. Henriksson and A. Juhlin-Dannfelt</td>
<td>461–464</td>
</tr>
</tbody>
</table>
EDITORIAL REVIEWS
Control of breathing during sleep
N. J. DOUGLAS 465-471

Vasopressin in cardiovascular control: role of circulating vasopressin
J. F. LIARD 473-481

The role of opioid peptides in the hormonal responses to acute exercise in man
A. GROSSMAN, P. BOULOUX, P. PRICE, P. L. DRURY, K. S. L. LAM, T. TURNER,
J. THOMAS, G. M. BESSER and J. SUTTON 483-491

Distribution of dead space volume in the human lung
G. TATSIS, K. HORSFIELD and G. CUMMING 493-497

Biliary inter-relationship between phospholipid, bilirubin and taurocholate in the
anaesthetized rat
J. J. GARCIA-MARIN and A. ESTELLER 499-504

Hypophosphataemic osteomalacia and myopathy: studies with nuclear magnetic
resonance spectroscopy
R. SMITH, R. J. NEWMAN, G. K. RADDA, M. STOKES and A. YOUNG 505-509

Correlation between platelet behaviour and cold-induced vasoconstriction in man,
and the effects of epoprostenol infusion
A. J. COWLEY, K. STAINER, S. COCKBILL and S. HEPTINSTALL 511-514

Relationship between ventilation and breathlessness during exercise in chronic
obstructive airways disease is not altered by prevention of hypoxaemia
C. R. SWINBURN, J. M. WAKEFIELD and P. W. JONES 515-519

Hypertension produced by chemical renal medullectomy: evidence for a reno-
medullary vasodepressor function in the rat
D. TAVERNER, R. F. BING, A. FLETCHER, G. RUSSELL, J. D. SWALES and
H. THURSTON 521-528

Tamm–Horsfall glycoprotein release from rat kidney cortex slices in vitro
P. K. WIRDNAM and R. D. G. MILNER 529-534

Calmodulin reduces ouabain-sensitive ATPase of cardiac sarcolemmal membranes:
high reduction in spontaneously hypertensive rats
M. CIRILLO, M. DAVID-DUFILHO and M. A. DEVYNCK 535-540

Uptake of a series of neutral dipeptides including L-alanyl-L-alanine, glycyglycine
and glycylsarcosine by hamster jejunum in vitro
D. M. MATTHEWS and D. BURSTON 541-549

Near-normal glycaemic control does not correct abnormal platelet reactivity in
diabetes mellitus
C. A. JACKSON, M. GREAVES, A. J. M. BOULTON, J. D. WARD and
F. E. PRESTON 551-555

SHORT COMMUNICATION
Histamine and secretory otitis media
M. P. COLLINS, K. BAKHSHI, C. A. WAREHAM and M. K. CHURCH 557-560
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EDITORIAL REVIEWS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The nature of factor VIII</td>
<td>I. R. Peake</td>
<td>561-567</td>
</tr>
<tr>
<td>Autoimmunity in liver disease</td>
<td>I. G. McFarlane</td>
<td>569-578</td>
</tr>
<tr>
<td>Effect of acetylsalicylic acid and of indomethacin on diuresis in man: the role of cyclo-oxygenase inhibition</td>
<td>H. Viervapper, J. Jörg and W. Waldhäusl</td>
<td>579-583</td>
</tr>
<tr>
<td>Thyroid status in patients after acute myocardial infarction</td>
<td>J. A. Franklyn, M. D. Gammage, D. B. Ramsden and M. C. Sheppard</td>
<td>585-590</td>
</tr>
<tr>
<td>Intestinal absorption of calcium in greyhounds: the response to intermittent and continuous administration of human synthetic parathyroid hormone fragment 1-34 (hPTH 1-34)</td>
<td>R. D. Podbesek, E. B. Mawer, G. D. Zanelli, J. A. Parsons and J. Reeve</td>
<td>591-599</td>
</tr>
<tr>
<td>Effect of small increments in plasma calcium concentration on the responsiveness of forearm resistance vessels to verapamil in normal subjects</td>
<td>B. F. Robinson and R. J. W. Phillips</td>
<td>613-618</td>
</tr>
<tr>
<td>Prostaglycerin and thromboxane in non-insulin dependent diabetes: the chlorpropamide alcohol flush reaction revisited</td>
<td>C. Johnston, F. Carey, R. A. Forder and D. Haworth</td>
<td>633-638</td>
</tr>
<tr>
<td>Serum alkaline phosphodiesterase 1 in experimental biliary obstruction in the rat</td>
<td>S. R. Simpson, K. Rahman and D. Billington</td>
<td>647-652</td>
</tr>
<tr>
<td><strong>SHORT COMMUNICATION</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>