CONTENTS

Volume 94, part I

January 1998

Guidance for Authors 1998

COMMENTS

Plasma oxygen during cardiopulmonary bypass by M. J. JACKSON
(see accompanying paper pp. 35–41)

Nitric oxide puzzles and paradoxes in heart failure: how to fit the pieces together?
by D. J. STEWART
(see accompanying paper pp. 43–48)

Blood pressure in autonomic failure: drinks, meals and other ordeals by J. R. SHANNON,
J. JORDAN and D. ROBERTSON
(see accompanying paper pp. 49–55)

EDITORIAL REVIEW

Just how big is the pulmonary granulocyte pool? by A. M. PETERS

PAPERS

Increased plasma levels of adrenomedullin in patients with hypertrophic cardiomyopathy: its
relation to endothelin-1, natriuretic peptides and noradrenaline by M. HAMADA,
Y. SHIGEMATSU, H. KAWAKAMI, N. MINAMINO, K. KANGAWA, H. MATSUO and K. HIWADA

Determinative role of peroxidized low-density lipoprotein in myocardial thromboxane
synthesis during pacing-induced ischaemia in humans by H.-C. HSU, M.-F. CHEN, C.-M. LEE
and Y.-T. LEE

Plasma oxygen during cardiopulmonary bypass: a comparison of blood oxygen levels with
oxygen present in plasma lipid by I. M. PETYAEV, A. VUYLSTEKE, D. W. BETHUNE and
J. V. HUNT

Increased l-arginine transport in human erythrocytes in chronic heart failure by H. HANSSEN,
and A. C. MENDES RIBEIRO

Hypotensive and regional haemodynamic effects of exercise, fasted and after food, in human
sympathetic denervation by S. PUVI-RAJASINGHAM, G. D. P. SMITH, A. Akinola and
C. J. Mathias

Long- and short-term blood pressure and RR-interval variability and psychosomatic distress in
chronic fatigue syndrome by D. A. DUPREZ, M. L. DE BUYZERE, B. DRIEGHE,
F. VANHAVERBEKE, Y. TAES, W. MICHELSSEN and D. L. CLEMENT

Rate of gastric emptying is a determinant of postprandial hypotension in non-insulin-
dependent diabetes mellitus by K. L. JONES, A. TONKIN, M. HOROWITZ, J. M. WISHART,
B. I. CARNEY, S. GUHA and L. GREEN

Lipolysis and lactate production in human skeletal muscle and adipose tissue following glucose
ingestion by D. A. J. M. KERCKHOFFS, P. ARNER and J. BOLINDER

Membrane microviscosity and plasma triacylglycerols in the rat by M.-A. DEVYNCK, J. KUNEŠ,
K. H. LE QUAN SANG and J. ZICHA

Changes to mucins in uninvolved mucosa and at the tumour site in gastric adenocarcinoma of
intestinal type by R. L. SIDEbotham, N. K. DHIR, J. B. ELDER, J. SPENCER, M. M. WALKER
and J. SCHRAGER

CORRESPONDENCE

The problem of factitious hyperkalaemia by R. LORD

i–x

1

3–4

5

7–19

21–28

29–34

35–41

43–48

49–55

57–63

65–70

71–77

79–85

87–99

101
GLAXO/MRS YOUNG INVESTIGATOR PRIZE
Matrix metalloproteinases: implication in vascular matrix remodelling during atherogenesis by S. Ye, S. Humphries and A. Henney

PAPERS

Influences on adrenaline-induced thermogenesis in obese women and relationship to cardiovascular responses by K. M. Walsh, C. Adams, A. Sinclair, E. Leen and M. E. J. Lean


Pharmacological characterization of coronary small arteries from pigs with chronic ischaemic myocardial remodelling by N. H. Buus, K. Terp, U. Baandrup, M. J. Mulvany and N. C. B. Nyborg

An early prenatal exposure to excess glucocorticoid leads to hypertensive offspring in sheep by M. Dodic, C. N. May, E. M. Wintour and J. P. Coghan

Intravenous lactate prevents cerebral dysfunction during hypoglycaemia in insulin-dependent diabetes mellitus by P. King, M.-F. Kong, H. Parkin, I. A. Macdonald, C. Barber and R. B. Tattersall

Angiotensin-converting enzyme inhibition does not correct early defects in renal and vascular permeability in diabetes mellitus by R. Zietse, F. H. Derkx, W. Weimar and M. A. Schalekamp

Systemic nitric oxide synthase inhibition increases insulin sensitivity in man by R. Butler, A. D. Morris and A. D. Struthers

Pancreatic bile-salt-dependent lipase activity in serum of diabetic patients: is there a relationship with glycation? by N. Caillol, E. Pasqualini, E. Mas, R. Gueu, A. Valette, J. Boyer and D. Lombardo

Carotenoids, retinol and tocopherols in patients with insulin-dependent diabetes mellitus and their immediate relatives by F. Granado, B. Olmedellia, E. Gil-Martinez, I. Blanco, I. Millan and E. Rojas-Hidalgo

Does total antioxidant status relate to outcome in very preterm infants? by J. A. Drury, J. A. Nycyk, M. Baines and R. W. I. Cooke

Relationship between serum alkaline phosphatase and pyridoxal-5'-phosphate levels in hypophosphatasia by S. J. Iqbal, A. Brain, T. M. Reynolds, M. Penny and S. Holland

SUPPLEMENT 38
Communications for the Autumn Meeting of the Medical Research Society on 13 and 14 November 1997 in conjunction with the Science and Medicine Conference at the Royal College of Physicians, London

GLAXO/MRS YOUNG INVESTIGATOR MEDAL
Molecular studies on adenosine deaminase deficiency and hereditary haemorrhagic telangiectasia by C. L. SHOVLIN

RAPID COMMUNICATION
Epidermal growth factor protects against carbon tetrachloride-induced hepatic injury by J. BERLANGA, M. E. CABALLERO, D. RAMIREZ, A. TORRES, C. VALENZUELA, J. Lodos and R. J. PLAYFORD

PAPERS
Nitric oxide modulation of coronary artery myogenic tone in spontaneously hypertensive and Wistar–Kyoto rats by S. R. GARCIA and S. J. BUND

Influence of mode of contraction on the mechanism of acetylcholine-mediated relaxation of coronary arteries from normotensive and spontaneously hypertensive rats by S. J. BUND

Non-invasive investigation of endothelium-dependent dilatation of the brachial artery in women with primary Raynaud’s phenomenon by A. RINGQVIST, T. JONASON, J. LEPPERT and I. RINGQVIST

Applicability of new techniques in the assessment of arterial baroreflex sensitivity in the elderly: a comparison with established pharmacological methods by M. A. JAMES, R. B. PANERAI and J. F. POTTER

Skin microcirculation in patients with Type I diabetes with and without neuropathy after neurovascular stimulation by T. FORST, A. PFÜTZNER, T. KUNT, T. POHLMANN, U. SCHENK, R. BAUERSACHS, E. KÜSTNER and J. BEYER

Autoimmune and clinical characteristics of Type I diabetes in children with different genetic risk loads defined by HLA-DQB1 alleles by J. KOMULAINEN, M. KNIP, E. SABBAB, P. VÄHÄSALO, R. LOUNAMAA, H. K. ÅKERBLOM, H. REIJONEN, J. ILONEN and the CHILDHOOD DIABETES IN FINLAND STUDY GROUP

Function of rat skeletal muscles after storage at 10 °C in various preservation solutions by E. P. A. VAN DER HEIDEN, A. B. A. KROESE, P. M. N. WERKER, P. D. GRABIETZ, M. B. DE JONG, P. R. BÄR and M. KON

Distribution of glutaminase and glutamine synthetase activities in the human gastrointestinal tract by L. A. JAMES, P. G. Lm, S. MIDDLETON and M. ELIA


CORRECTIONS
Catchlines in papers in January 1998 issue (94: 1)
COMMENTS
Syncope and sudden death in hypertrophic cardiomyopathy by R. S. SHELDON
(see accompanying paper pp. 339–346) 335–336
Preventing adult disease: windows of opportunity by S. B. HARRAP
(see accompanying paper pp. 373–381) 337–338

PAPERS
Reflex responses of venous capacitance vessels in patients with hypertrophic cardiomyopathy
by H. L. THOMSON, J. MORRIS-THURGOOD, J. ATHERTON, W. J. MCKENNA and
M. P. FRENNEAUX 339–346
Dynamics of circulatory adjustments to head-up tilt and tilt-back in healthy and
sympathetically denervated subjects by W. WIELING, J. J. VAN LIESHOUT
and A. D. J. TEN HARKEL 347–352
Cerebral blood flow velocity during and after sustained isometric skeletal muscle contractions
in man by F. J. IMMS, F. RUSSO, V. I. IYAWE and M. B. SEGAL 353–358
Differential regulation of ventricular adrenomedullin and atrial natriuretic peptide gene
expression in pressure and volume overload in the rat by M. KAISER, O. KAHR, Y. SHIMADA,
P. SMITH, M. KELLY, N. MAHADEVA, M. ADAMS, D. LODWICK, C. AALKJAER, M. AVKIRAN
and N. J. SAMANI 359–365
Chronic administration of octreotide ameliorates portal hypertension and portal hypertensive
gastropathy in rats with cirrhosis by C.-C. CHAN, F.-Y. LEE, S.-S. WANG, F.-Y. CHANG,
Early administration of angiotensin-converting enzyme inhibitor captopril, prevents the
development of hypertension programmed by intrauterine exposure to a maternal low-
protein diet in the rat by R. C. SHERMAN and S. C. LANGLEY-EVANS 373–381
Human muscle sympathetic activity and cardiac catecholamine spillover: no support for
augmented sympathetic noradrenaline release by adrenaline co-transmission by
J. M. THOMPSON, B. G. WALLIN, G. W. LAMBERT, G. L. JENNINGS and M. D. ESLER 383–393
Vascular endothelial growth factor (VEGF) is released from platelets during blood clotting:
implications for measurement of circulating VEGF levels in clinical disease by
Bone mineral changes during pregnancy and lactation: a longitudinal cohort study by
N. KOLTHOFF, P. EIKEN, B. KRISTENSEN and S. P. NIELSEN 405–412
Sustained modifications of protein metabolism in various tissues in a rat model of long-lasting
sepsis by D. BREUILLE, M. ARNAL, F. RAMBOURDIN, G. BAYLE, D. LEVIEUX and C. OBLER 413–423
Proximal renal tubular peptide catabolism, ammonia excretion and tubular injury in patients
with proteinuria: before and after lisinopril by R. RUSTOM, J. S. GRIME, M. COSTIGAN,
P. MALTBY, A. HUGHES, A. SHENKIN, M. CRITCHLEY and J. M. BONE 425–430
Inappropriately high plasma leptin levels in obese haemodialysis patients can be reduced by
high flux haemodialysis and haemodiafiltration by M. WIESHOLZER, F. HARM, A.-C. HAUSER,
A. PRIEBSNIEG and P. BALCKE 431–435
Neutrophil cathepsin G modulates platelet P-selectin expression and inhibits P-selectin-
mediated platelet–neutrophil adhesion by M. K. ILTON, M. L. TAYLOR, N. L. A. MISSO,
P. J. THOMPSON and J. HUNG 437–445
Effect of oxidative stress on lymphocytes from elderly subjects by E. GARCÍA-ARUMÍ,
A. L. ANDREU, J. LÓPEZ-HELLÍN and S. SCHWARTZ 447–452
Time course and pattern of pulmonary flow distribution following unilateral airway occlusion
in sheep by B. JOHANSEN, M. N. MELSOM, T. FLATEBO and G. NICOLAYSSEN 453–460
EDITORIAL REVIEW
Neutrophil priming: pathophysiological consequences and underlying mechanisms by A. M. CONDLIFFE, E. KITCHEN and E. R. CHILVERS 461-471

GLAXO/MRS YOUNG INVESTIGATOR PRIZE
Genetics of inflammatory bowel disease by J. SATSANGI, M. PARKES, D. P. JEWELL and J. I. BELL 473-478

PAPERS
Plasma leptin in chronic inflammatory bowel disease and HIV: implications for the pathogenesis of anorexia and weight loss by A. BALLINGER, P. KELLY, E. HALLYBURTON, R. BISSER and M. FARTHING 479-483


Haemodynamic responses in young and elderly, healthy subjects during ambient and warm head-up tilt by M. LYE and T. WALLEY 493-498

Regulation of mitochondrial ATP synthase activity in human myocardium by A. M. DAS 499-504

Aprotinin reduces nitric oxide production in vitro and in vivo in a dose-dependent manner by N. L. BRUDA, B. J. HURLBERT and G. E. HILL 505-509

Renoprotective differences between perindopril and enalapril in the diabetic hypertensive rat do not reflect glomerular angiotensin-converting enzyme activity by K. A. DUGGAN, G. HODGE, M. M. MAKARIOUS and J. A. CHARLESWORTH 511-516

Vasopressin V1a and V2 receptor mRNA in deoxycorticosterone acetate-salt hypertension in the rat by J. RISVANIS, C. I. JOHNSTON, P. A. PHILLIPS and L. M. BURRELL 517-523

Effects of skin cooling on airway reactivity in asthma by M. E. SKOWRONSKI, R. CIUFO, J. A. NELSON and E. R. MCFADDEN 525-529

Volume 94, part 6

EDITORIAL REVIEW
Anti-inflammatory actions of glucocorticoids: molecular mechanisms by P. J. BARNES 557-572

PAPERS
Effects of β-blockers on the concentration and oxidizability of plasma lipids by S. B. DIMMITT, P. D. WILLIAMS, K. D. CROFT and L. J. BEILIN 573-578

Elevated heart rate variability in physically active young and older adult women by K. P. DAVY, C. A. DESOUZA, P. P. JONES and D. R. SEALs 579-584

Volume 94, part 6
Contents


How does treatment influence endocrine mechanisms in acute severe heart failure? Effects on cardiac natriuretic peptides, the renin system, neuropeptide Y and catecholamines by C. G. Missouris, E. Grouzmann, M. G. Buckley, J. Barron, G. A. MacGregor and D. R. J. Singer 591–599

Acute hypertension impairs endothelium-dependent vasodilatation by J. Millgård and L. Lind 601–607

Suppression of post-glucose hyperinsulinaemia does not affect blood pressure in either normotensive or hypertensive subjects by M. W. Savage, V. Mohamed-Ali and G. Williams 609–614

Cardiovascular autonomic testing in adolescents with Type I (insulin-dependent) diabetes mellitus: an 18-month follow-up study by A. Scaramuzza, F. Salucci, S. Leuzzi, A. Radaelli, G. D’Annunzio, P. Fratino, R. Lorini and L. Bernardi 615–621

Increased oxidative stress in rat liver and pancreas during progression of streptozotocin-induced diabetes by R. Kakkar, S. V. Mantha, J. Radhi, K. Prasad and J. Kalra 623–632


Increased nitric oxide synthesis and inducible nitric oxide synthase expression in patients with alcoholic and non-alcoholic liver cirrhosis by A. Sánchez-Rodríguez, M. Criado, A. M. Rodríguez-López, A. Esteller, A. Martín de Arriba and J. M. López-Novoa 637–643


Concentration-dependent stimulation of intestinal phase III of migrating motor complex by circulating serotonin in humans by M. Lördal, H. Wallén, P. Hjeldaahl, O. Beck and P. M. Hellström 663–670


Regional differences in protein carboxymethylation in post-mortem human brain by M. Goggins, J. M. Scott and D. G. Weir 677–685

CORRECTION

AUTHOR AND SUBJECT INDEXES