Volume 46

Author Index

Addison, J.M., Matthews, D.M. & Burstyn, D. Competition between carnosine and other peptides for transport by hamster jejunum in vitro

Addison, J.M., see also Matthews, D.M. et al.

Aminoff, M.J., see Wilcox, C.S. et al.

Andrews, T.M., see Howell, A. et al.

Ardaillou, R., see Paillard, F. et al.

Barer, G.R., see Hunter, C. et al.

Barnes, F.S., Gamow, E., Burns, A. & De Boisfleury, A. Directional effects of cyclic AMP on platelets

Baron, D.N., see Buttery, J.E. et al.

Beattie, A.D., see Paxton, J.W. et al.

Bell, J.H., see Godfrey, S. et al.

Benatar, S.R. & König, P. Maximal expiratory flow and lung volume changes associated with exercise-induced asthma in children and the effect of breathing a low-density gas mixture

Bennett, E.D., Else, W., Miller, G.A.H., Sutton, G.C., Miller, H.C. & Noble, M.I.M. Maximum acceleration of blood from the left ventricle in patients with ischaemic heart disease

Bennett, J., see Lavender, S. et al.

Bernard, A., see Deheneffe, J. & Bernard, A.

Billing, B.H., see Black, M. et al.

Birch, N.J. Lithium accumulation in bone after oral administration in rat and in man

Bishop, J.M., see Lee, K.D. & Bishop, J.M.


Blair-West, J.R., Reid, I.A. & Ganong, W.F. Stimulation of angiotensin release by raised blood angiotensin concentration in the dog

Boddy, K., Hume, R., King, P.C., Weyers, E. & Rowan, T. Total body, plasma and erythrocyte potassium and leucocyte ascorbic acid in ‘ultra-fit’ subjects

Bohlmann, H.G., see Kostner, G. et al.

Bone, J.M., Cowie, J., Lambie, A.T. & Robson, J.S. The relationship between arterial PCO₂ and hydrogen ion concentration in chronic metabolic acidosis and alkalosis

Boother, F.A., see Snashall, P.D. & Boother, F.A.

Bowman, P., see Spiro, S.G. et al.

Boyle, J.A., see Semple, P.F. et al.

Breckenridge, A., see Orme, M.L’E. et al.

Brodan, V., see Kocián, J. & Brodan, V.

Brown, K., see Godfrey, S. et al.

Burns, A., see Barnes, F.S. et al.
Author index

BURSTON, D., see Addison, J.M. et al.; see also Matthews, D.M. et al.

BUTTERY, J.E., PARBHOO, S.P. & BARON, D.N. Plasma enzyme and isoenzyme changes during perfusion of the isolated pig liver


BYFIELD, P.G.H., see Larkins, R.G. et al.

CAMERON, J.S., see Cox, B.D. & Cameron, J.S.

CARSON, E.R., see Black, M. et al.

CHANARIN, I., PERRY, J. & REYNOLDS, E.H. Transport of 5-methyltetrahydrofolate acid into the cerebrospinal fluid in man

CHAPMAN, C., HUTTON, W.N. & HAYTER, C.J. The interference of human IgG with the double-antibody radioimmunoassay of thyrotrophic hormone and its clinical significance

CHARLESWORTH, J.A., WILLIAMS, D. G., SHERINGTON, E. & PETERS, D.K. Metabolism of the third component of complement (C3) in normal human subjects

CHARLWOOD, P.A., see Wong, K.-L. et al.

CHARMAIN, M., see Edelstein, S. et al.

CHINN, S., see Howell, A. et al.

CLARK, M.L., see Silk, D.B.A. et al.

CLARKE, B.F., see Ewing, D.J. et al.

CLEGG, E.J., see Hunter, C. et al.

COATES, P., see North, K.A.K. et al.

COHEN, R.D., see Iles, R.A. & Cohen, R.D.

COLSTON, K.W., see Greenberg, P.B. et al.

COOPER, B.A., see Lavoie, A. & Cooper, B.A.

COOPER, K.E., see Pittman, Q.J. et al.

CORROCHER, R., DE SANDRE, G., PACOR, M.L. & HOFFBRAND, A.V. Hepatic protein binding of folate

COSGROVE, D.O. & JENKINS, J.S. The effects of epidural anaesthesia on the pituitary-adrenal response to surgery

COWIE, J., see Bone, J.M. et al.

Cox, B.D. & CAMERON, J.S. Homoarginine in cystinuria

CRANE, C.W., JENNER, F.A. & POLLITT, R.J. The relationship between the formation of urea and argininosuccinate in a patient with argininosuccinic aciduria studied with labelled precursors

CROSS, R.B., TRACE, J.W. & VATTUONE, J.R. The effect of angiotensin upon the vasculature of the isolated perfused rat kidney

CUDWORTH, A.G. & CUNNINGHAM, J.L. The effect of diphenylhydantoin on insulin response

CUNNINGHAM, J.L., see Cudworth, A.G. & Cunningham, J.L.

CURZON, G., see Buxton, B.H. et al.

DAS, M. & RADHAKRISHNAN, A.N. A comparative study of the distribution of soluble
Author index

and particulate glycy1-L-leucine hydrolase in the small intestine
DAVIES, L., see Orme, M.L'E. et al.
DE BOISFLEURY, A., see Barnes, F.S. et al.
DEHENEFPE, J. & BERNARD, A. The pressor response to intravenously infused angiotensin
II: correlation with plasma renin activity
DE SANDRE, G., see Corrocher, R. et al.
DREYER, N., see Fulop, M. et al.
DUARTE, C.G. Effects of ethacrynic acid and frusemide on urinary phosphate in the dog
DUBOWITZ, V., see Neerunjun, J.S. & Dubowitz, V.

EDELSTEIN, S., CHARMAN, M., LAWSON, D.E.M. & KODICEK, E. Competitive protein-
 binding assay for 25-hydroxycholecalciferol
EDWARDS, R.H.T., see Spiro, S.G. et al.
EFSTRATOPoulos, A.D., PEARL, W.S. & WILSON, G.A. The effect of aldosterone on
 colonic potential difference and renal electrolyte excretion in normal man
EINARSSON, K. & HELLSTROM, K. The formation of deoxycholic acid and chenodeoxy-
 cholic acid in man
EKNOYAN, G., see Martinez-Maldonado, M. et al.
ELKELES, R.S. Lipoprotein lipase in human adipose tissue
ELKELES, R.S. & WILLIAMS, E. Post-heparin lipolytic activity and tissue lipoprotein
lipase activity in the alloxan-diabetic rat
ELLIOIT, A.J., see Healy, J.K. et al.
ELSE, W., see Bennett, E.D. et al.
EVANS, I.M.A., see Greenberg, P.B. et al.
EWING, D.J., IRVING, J.B., KERR, F., WILDMSHIT, J.A.W. & CLARKE, B.F. Cardio-
vascular responses to sustained handgrip in normal subjects and in patients with
diabetes mellitus: a test of autonomic function

FEVERY, J., see Black, M. et al.
FISCHER, G.M., see Thind, G.S. & Fischer, G.M.
FULOP, M., DREYER, N. & TANNENBAUM, H. The ventilatory response in diabetic keto-
acidosis

GALANTE, L.S., see Greenberg, P.B. et al.
GALTON, D.J., see Goldrick, R.B. & Galton, D.J.; see also Jerums, G. et al.
GAMOW, E., see Barnes, F.S. et al.
GANONG, W.F., see Blair-West, J.R. et al.
GILBERT, C., see Jerums, G. et al.
GODFREY, S., ZEIDIFARD, E., BROWN, K. & BELL, J.H. The possible site of action of sodium
cromoglycate assessed by exercise challenge
GOLDBERG, A., see Krasner, N. et al.; see also Paxton, J.W. et al.
GOLDRICK, R.B. & GALTON, D.J. Fatty acid synthesis de novo in human adipose tissue
GORDON, C., see Moore, W.M.O. et al.
GOTSHALL, R.W., see LeBrie, S.J. & Gotshall, R.W.
Author index

MACINTYRE, I. Affinity of calciferol analogues for 25-hydroxycholecalciferol receptors 143

HAMMACK, W.J., see Preuss, H.G. et al.


HARRISON, L.C., see Healy, J.K. et al.

HATTON, M.W.C., see Wong, K.-L. et al.

HAYTER, C.J., see Chapman, C. et al.

HEALY, J.K., ELLIOTT, A.J. & HARRISON, L.C. Effects of angiotensin on plasma electrolyte concentrations in rabbits and in man 19

HELLSTRÖM, K., see Einarsson, K. & Hellström, K.

HENDERSON, A.R., see Semple, P.F. et al.

HILLS, B.A. Air embolism: fission of microbubbles upon collision in plasma 629

HILLYARD, C.J., see Greenberg, P.B. et al.

HILTON, P.J. & PATRICK, J. Sodium and potassium transport rates in normal human leucocytes in hypo-osmolar extracellular fluid 613

HODGKINSON, A. Relations between oxalic acid, calcium, magnesium and creatinine excretion in normal men and male patients with calcium oxalate kidney stones 357

HODGKINSON, A. & WILKINSON, R. Plasma oxalate concentration and renal excretion of oxalate in man 61

HOFFBRAND, A.V., see Corrocher, R. et al.; see also Linnell, J.C. et al.

HOLASEK, A., see Kostner, G. et al.

HOPKINS, J., see Tudhope, G.R. & Hopkins, J.

HOWELL, A., CHINN, S., ANDREWS, T.M. & WATTS, R.W.E. The effects of drugs that cause neutropenia upon colony formation by bone marrow cells in semi-solid agar 619

HUME, R., see Boddy, K. et al.

HUNTER, C., BARER, G.R., SHAW, J.W. & CLEGG, E.J. Growth of the heart and lungs in hypoxic rodents: a model of human hypoxic disease 375

HUSSEIN, H.A-A., see Linnell, J.C. et al.; see also Osuntokun, B.O. et al.

HUTTON, W.N., see Chapman, C. et al.

IAMMARINO, R.M., see Preuss, H.G. et al.

ILES, R.A. & COHEN, R.D. The effect of varying the amount of unlabelled 5,5-dimethyl-oxazolidine-2,4-dione (DMO) in the measurement of rat hepatic intracellular pH using [14C]DMO 277

IRVING, J.B., see Ewing, D.J. et al.

JACOBSON, J., see Black, M. et al.

JENKINS, J.S., see Cosgrove, D.O. & Jenkins, J.S.

JENNER, F.A., see Crane, C.W. et al.

JERUMS, G., GALTON, D.J. & GILBERT, C. The effect of modifying the combination of insulin with rat adipose cells on the intracellular levels of cyclic AMP 75

JONES, N.F., see Patrick, J. & Jones, N.F.

JUNIPER, E., see Spiro, S.G. et al.
Author index

KENYON, A.M., see Harris, E.A. et al.
KERR, F., see Ewing, D.J. et al.
KING, P.C., see Boddy, K. et al.
KOČIÁN, J. & BRODAN, V. Changes in disappearance of intravenously administered $^{47}\text{Ca}$ at the onset of alimentary absorption of unlabelled calcium 311
KODICEK, E., see Edelstein, S. et al.
KOJO ADDAE, S., see Kurantsin-Mills, J. et al.
KÖNG, P., see Benatar, S.R. & König, P.
KOŠNER, G., HOLASEK, A., BOHLMANN, H.G. & THIEDE, H. Investigation of serum lipoproteins and apoproteins in abetalipoproteinaemia 457
KUDO, M., see Kurantsin-Mills, J. et al.
KURANTSIN-MILLS, J., KUDO, M. & KOJO ADDAE, S. Cation content and transport characteristics of the sickle-cell erythrocyte and their relationship with structural changes in the membrane 679
KURTZ, A.B., see Wilcox, C.S. et al.

LAMBLE, A.T., see Bone, J.M. et al.
LASCHELLE, D., see North, K.A.K. et al.
LASZLO, G. & SCHRIJEN, F. Left ventricular function in chronic obstructive pulmonary disease, with and without cardiac failure 281
LAVENDER, S., BENNETT, J., MORSE, P.F. & POLAK, A. Albumin and creatinine clearances in renal disease 775
LAVOIE, A. & COOPER, B.A. Rapid transfer of folic acid from blood to bile in man, and its conversion into folate coenzymes and into a pteroylglutamate with little biological activity 729
LAWSON, D.E.M., see Edelstein, S. et al.
LEBRIE, S.J. & GODSHALL, R.W. Vasopressin-induced increase in renal lymph flow and natriuresis in dogs 603
LEE, K.D. & BISHOP, J.M. The reflex hypoxic respiratory drive in patients with chronic bronchitis 347
LINNELL, J.C., see also Osuntokun, B.O. et al.

MACAULEY, S.J., see Larkins, R.G. et al.
MACINTYRE, I., see Greenberg, P.B. et al.; see also Larkins, R.G. et al.
MAGIDE, A.A. & MYANT, N.B. Effect of nicotinic acid on cholesterol metabolism in monkeys 527
Author index

MARTIN, T.J., see Larkins, R.G. et al.
MARTINEZ-MALDONADO, M., EKNOYAN, G. & SUKI, W.N. Influence of volume expansion on renal diluting capacity in the rat 331
MATTHEWS, D.M., see also Addison, J.M. et al., Linnell, J.C. et al., Osuntokun, B.O. et al.
MATTHEWS, E.W., see Larkins, R.G. et al.
MAUTALEN, C.A. & WHARTON, B.A. Circadian rhythm of the total hydroxyproline: creatinine ratio in urine 419
MCINTOSH, W., see Krasner, N. et al.
MCNICOL, M.W., see Tattersfield, A.E. et al.
MILLER, G.A.H., see Bennett, E.D. et al.
MILLER, H.C., see Bennett, E.D. et al.
MOORE, M.R., see Krasner, N. et al.; see also Paxton, J.W. et al.
MOORE, W.M.O., WARD, B.S. & GORDON, C. Human placental transfer of glucagon 125
MORSE, P.F., see Lavender, S. et al.
MURDAUGH, H.V., Jr, see Preuss, H.G. et al.
MURRAY-LYON, I.M., see Buxton, B.H. et al.
MYANT, N.B., see Magide, A.A. & Myant, N.B.

NEALE, G., see Silver, J. et al.
NEERUNJUN, J.S. & DUBOWITZ, V. Isoenzyme studies in the identification of transplanted muscle in the mouse 555
NISBET, H.D., see Harris, E.A. et al.
NOBLE, M.I.M., see Bennett, E.D. et al.
NORTH, K.A.K., LASCELLES, D. & COATES, P. The mechanisms by which sodium excretion is increased during a fast but reduced on subsequent carbohydrate feeding 423
ORME, M.L’E., DAVIES, L. & BRECKENRIDGE, A. Increased glucuronidation of bilirubin in man and rat by administration of antipyrine (phenazone) 511
PACOR, M.L., see Corrocher, R. et al.
PAILLARD, F., ARDAILLOU, R. & VALLEÉ, G. Influence of salmon calcitonin on radiophosphorus distribution in polycythaemic patients 655
PARBHOO, S.P., see Butterly, J.E. et al.
PARKER, D., see Black, M. et al.
PATRICK, J. & JONES, N.F. Cell sodium, potassium and water in uraemia and the effects of regular dialysis as studied in the leucocyte 583
PATRICK, J., see also Hilton, P.J. & Patrick, J.
PAXTON, J.W., MOORE, M.R., BEATTIE, A.D. & GOLDBERG, A. 17-Oxosteroid conjugates in plasma and urine of patients with acute intermittent porphyria 207
PEART, W.S., see Efstratopoulos, A.D. et al.
Author index

PERRETT, D., see Silk, D.B.A. et al.
PERRY, J., see Chanarin, I. et al.
PETERS, D.K., see Charlesworth, J.A. et al.
PITTMAN, Q.J., COOPER, K.E., VEALE, W.L. & VAN PETTEN, G.R. Observations on the development of the febrile response to pyrogens in sheep 591
POLAK, A., see Lavender, S. et al.
POLLITT, R.J., see Crane, C.W. et al.
PRESS, M. & THOMPSON, G.R. Plasma post-heparin lipolytic activity in patients with malabsorption: effect of intravenous fat administration 743
PREUSS, H.G., WEISS, F.R., IAMMARINO, R.M., HAMMACK, W.J. & MURDAUGH, H.V., JR. Effects on rat kidney slice function in vitro of proteins from the urines of patients with myelomatosis and nephrosis 283
RADHAKRISHNAN, A.N., see Das, M. & Radhakrishnan, A.N.
RAPPORT, A., see Larkins, R.G. et al.
REGOECZI, E., see Wong, K.-L. et al.
REID, I.A., see Blair-West, J.R. et al.
REYNOLDS, E.H., see Chanarin, I. et al.
ROBERTS, N.B., see Waft, L.A. et al.
ROBSON, J.S., see Bone, J.M. et al.
ROWAN, T., see Boddy, K. et al.

SCHRIJEN, F., see Laszlo, G. & Schrijen, F.
SEELYE, E.R., see Harris, E.A. et al.
SEMPE, P.F., HENDERSON, A.R. & BOYLE, J.A. The effect of fasting and food on the rate of purine biosynthesis de novo in the rat spleen 37
SHAW, J.W., see Hunter, C. et al.
SHERINGTON, E., see Charlesworth, J.A. et al.
SILLETT, R.W., see Tattersfield, A.E. et al.
SILVER, J., NEALE, G. & THOMPSON, G.R. Effect of phenobarbitone treatment on vitamin D metabolism in mammals 433
SLATER, J.D.H., see Wilcox, C.S. et al.
SNASHALL, P.D. & BOOTHER, F.A. Interstitial gel swelling pressure in human subcutaneous tissue measured with a cotton wick 241
SPIRO, S.G., JUNIPER, E., BOWMAN, P. & EDWARDS, R.H.T. An increasing work rate test for assessing the physiological strain of submaximal exercise 191
STEWART, D.A., see Buxton, B.H. et al.
SUFI, W.N., see Martinez-Maldonado, M. et al.
SUTTON, G.C., see Bennett, E.D. et al.
SWALES, J.D., see Thurston, H. & Swales, J.D.

TANNENBAUM, H., see Fulop, M. et al.
TATTERSFIELD, A.E., MCNICOL, M.W. & SILLETT, R.W. Haemodynamic effects of intra-
venous frusemide in patients with myocardial infarction and left ventricular failure 253
TAYLOR, W.H., see Waft, L.A. et al.
THIEDE, H., see Kostner, G. et al.
THIND, G.S. & FISCHER, G.M. Relationship of plasma zinc to human hypertension 137
THOMPSON, G.G., see Krasner, N. et al.
THOMPSON, G.R., see Press, M. & Thompson, G.R.; see also Silver, J. et al.
THURSTON, H. & SWALES, J.D. Action of angiotensin antagonists and antiserum upon the pressor response to renin: further evidence for the local generation of angiotensin II 273
TRACE, J.W., see Cross, R.B. et al.
TUDHOPE, G.R. & HOPKINS, J. Plasma tocopherol levels and the susceptibility of erythrocytes to Heinz body formation 635
TULLOCH, B.R., see Larkins, R.G. et al.

VALLÉE, G., see Paillard, F. et al.
VAN PETTEN, G.R., see Pittman, Q.J. et al.
VATTUONE, J.R., see Cross, R.B. et al.
VEALE, W.L., see Pittman, Q.J. et al.

WARD, B.S., see Moore, W.M.O. et al.
WATTS, R.W.E., see Howell, A. et al.
WEBB, J.P.W., see Silk, D.B.A. et al.
WEISS, F.R., see Preuss, H.G. et al.
WEYERS, E., see Boddy, K. et al.
WHARTON, B.A., see Mautalen, C.A. & Wharton, B.A.
WHITLOCK, R.M.L., see Harris, E.A. et al.
WILCOX, C.S., AMINOFF, M.J., KURTZ, A.B. & SLATER, J.D.H. Comparison of the renin response to dopamine and noradrenaline in normal subjects and patients with autonomic insufficiency 481
WILDSMITH, J.A.W., see Ewing, D.J. et al.
WILKINSON, R., see Hodgkinson, A. & Wilkinson, R.
WILLIAMS, D.G., see Charlesworth, J.A. et al.
WILLIAMS, E., see Elkeles, R.S. & Williams, E.
WILLIAMS, R., see Buxton, B.H. et al.
WILSON, G.A., see Efstratopoulos, A.D. et al.
WISE, I.J., see Linnell, J.C. et al.; see also Osuntokun, B.O. et al.
WONG, K.-L., CHARLWOOD, P.A., HATTON, M.W.C. & REGOECZI, E. Studies of the metabolism of asialotransferrins: evidence that transferrin does not undergo desialylation in vivo 763

ZEIDIFARD, E., see Godfrey, S. et al.
SUBJECT INDEX

Abetalipoproteinaemia, investigation of serum lipoproteins and apoproteins in KOSTNER, G., HOLASEK, A., BOHLMANN, H.G. & THIEDE, H. 457-468

Absorption, intestinal, of two tripeptides by the human small intestine studied by a perfusion technique SILK, D.B.A., PERRETT, D., WEBB, J.P.W. & CLARK, M.L. 393-402

Acidosis, diabetic, ventilatory response in FULOP, M., DREYER, N. & TANNENBAUM, H. 539-549

Acidosis, metabolic, chronic, relationship between $PCO_2$ and hydrogen ion concentration in BONE, J.M., COWIE, J., LAMBIE, A.T. & ROBSON, J.S. 113-123

Adenosine 3':5'-cyclic monophosphate, directional effects of, on platelets BARNES, F.S., GAMOW, E., BURNS, A. & DE BOISFLEURY, A. 307-309

Adenosine 3':5'-cyclic monophosphate, effect of modifying the combination of insulin with rat adipose cells on the intracellular levels of JERUMS, G., GALTON, D.J. & GILBERT, C. 75-87

Adipose cells, rat, effect of modifying the combination of insulin with, on intracellular levels of cyclic AMP JERUMS, G., GALTON, D.J. & GILBERT, C. 75-87

Adipose tissue, human, presence of lipoprotein lipase in ELKELES, R.S. 753-762

Adipose tissue, human, synthesis of fatty acid de novo in GOLDRICK, R.B. & GALTON, D.J. 469-479

Adrenal gland, effects of epidural anaesthesia on the response of, and pituitary gland to surgery COSGROVE, D.O. & JENKINS, J.S. 403-407

Adrenalectomy, effect of, on angiotensinogen release by raised blood angiotensin concentration in the dog BLAIR-WEST, J.R., REID, I.A. & GANONG, W.F. 665-668

Aetiocholanolone, presence of, in urine and plasma of patients with acute intermittent porphyria PAXTON, J.W., MOORE, M.R., BEATTIE, A.D. & GOLDBERG, A. 207-222

Air embolism, fission of microbubbles upon collision in plasma and HILLS, B.A. 629-634

Air embolism, fission of microbubbles upon collision in plasma and HILLS, B.A. 629-634


Albumin, ratio of clearance of, to creatinine clearance in patients with renal disease LAVENDER, S., BENNETT, J., MORSE, P.F. & POLAK, A. 775-784


Aldosterone, effect of, on colonic potential difference and renal electrolyte excretion in normal man EFSTRATOPOULOS, A.D., PEART, W.S. & WILSON, G.A. 489-499

Alkalosis, metabolic, chronic, relationship between $PCO_2$ and hydrogen ion concentration in BONE, J.M., COWIE, J., LAMBIE, A.T. & ROBSON, J.S. 113-123

Alloxan diabetes, post-heparin lipolytic activity and tissue lipoprotein lipase activity in the rat with ELKELES, R.S. & WILLIAMS, E. 661-664


xi
δ-Aminolaevulinic acid dehydratase, erythrocyte, depression of activity of, in alcoholics  

Anaemia, see Pernicious anaemia

Anaesthesia, epidural, effects of, on the pituitary–adrenal response to surgery  
COSGROVE, D.O. & JENKINS, J.S. 403–407

Angiotensin II, action of antagonists of, and antisemur upon the pressor response to renin  
THURSTON, H. & SWALES, J.D. 273–276

Angiotensin II, effect of, on the vasculature of the isolated perfused rat kidney  
CROSS, R.B., TRACE, J.W. & VATTUONE, J.R. 647–650

Angiotensin, effects of, on plasma electrolyte concentrations in rabbits and in man  

Angiotensin II, evidence for the local generation of  
THURSTON, H. & SWALES, J.D. 273–276

Angiotensin II, plasma renin activity and the pressor response to, given by intravenous infusion  
DEHENNEFE, J. & BERNARD, A. 149–161

Angiotensin II, stimulation of angiotensinogen release by raised blood concentration of, in the dog  

Angiotensinogen, stimulation of release of, by raised blood concentration of angiotensin II  
in the dog  

Antipyrine, increased glucuronidation of bilirubin in man and rat by administration of  
ORME, M.L'E., DAVIES, L. & BRECKENRIDGE, A. 511–518

Aorta, measurement in patients with ischaemic heart disease of maximum acceleration of  
blood in  

Apoproteins, serum, investigation of, and lipoproteins in abetalipoproteinaemia  

Arginine, 14C-labelled, effects of intravenous administration of, to a patient with argininosuccinic aciduria  
CRANE, C.W., JENNER, F.A. & POLLITT, R.J. 715–727

Argininosuccinic aciduria, relationship between formation of urea and argininosuccinate in a patient with  
CRANE, C.W., JENNER, F.A. & POLLITT, R.J. 715–727

Arterial–alveolar oxygen-tension gradient in man  

Ascorbic acid, total body, plasma and erythrocyte potassium and, of leucocytes in ‘ultra-fit’ subjects  
BODDY, K., HUME, R., KING, P.C., WEVERS, E. & ROWAN, T. 449–456

Asialotransferrins, metabolism of, in rabbits  

Asthma, exercise-induced, assessment of sodium cromoglycate action in patients with  
GODFREY, S., ZIEDIFARD, E., BROWN, K. & BELL, J.H. 265–272

Asthma, exercise-induced, maximal expiratory flow and lung volume changes associated with, in children and the effect of breathing a low-density gas mixture  
BENATAR, S.R. & König, P. 317–329

Ataxic neuropathy, tropical, plasma and hepatic cobalamins in  

Autonomic function, cardiovascular responses to sustained handgrip as test of  
Autonomic function, comparison of the renin response to dopamine and noradrenaline in normal subjects and patients with insufficiency of  


Bile, duodenal, cholic acid and deoxycholic acid in, after administration of labelled cholesterol  

EINARSSON, K. & HELLSTRÖM, K. 183-190

Bile, rapid transfer of folic acid from blood to, in man  

LAVOIE, A. & COOPER, B.A. 729-741

Bilirubin, $^{14}$C-labelled, effect of phenobarbitone on plasma clearance of, in patients with unconjugated hyperbilirubinaemia  

BLACK, M., FEVERY, J., PARKER, D., JACOBSON, J., BILLING, B.H. & CARSON, E.R. 1-17

Bilirubin, increased glucuronidation of, in man and rat by administration of antipyrine  

ORME, M.L'E., DAVIES, L. & BRECKENRIDGE, A. 511-518

Binding proteins, hepatic, folic acid and, of the rat  

CORROCHER, R., DE SANDRE, G., PACOR, M.L. & HOFFBRAND, A.V. 551-554

Blood flow, effect of angiotensin on, in the rat kidney  

CROSS, R.B., TRACE, J.W. & VATTUONE, J.R. 647-650

Blood pressure, action of angiotensin antagonists and antiserum upon the effect of renin on  

THURSTON, H. & SWALES, J.D. 273-276

Blood pressure, correlation of effect of intravenously infused angiotensin II on, with plasma renin activity  

DEHENEFFE, J. & BERNARD, A. 149-161

Bone, accumulation of lithium in, after oral administration in rat and in man  

BIRCH, N.J. 409-413

Bone marrow, effects of drugs that cause neutropenia on colony formation by cells of, in semi-solid agar  

HOWELL, A., CHINN, S., ANDREWS, T.M. & WATTS, R.W.E. 619-628

Bronchitis, chronic, reflex hypoxic respiratory drive in patients with  

LEE, K.D. & BISHOP, J.M. 347-356

C3 (complement protein), metabolism of, in normal human subjects  


Calciferol, affinity of analogues of, for 25-hydroxycholecalciferol receptors  

THIND, G.S. & FISCHER, G.M. 143-147

Calcitonin, salmon, influence of, on radiophosphorus distribution in polycythaemic patients  

PAILLARD, F., ARDAILLOU, R. & VALLÉE, G. 655-659

Calcium, changes in disappearance of intravenously administered $^{47}$Ca at the onset of alimentary absorption of  

KOCIÁN, J. & BRODAN, V. 311-316

Calcium, relations between excretion of, and oxalic acid, magnesium and creatinine in normal men and male patients with calcium oxalate kidney stones  

HODGKINSON, A. 357-367

Calcium oxalate, relations between excretion of oxalic acid, calcium, magnesium and creatinine in normal men and male patients with kidney stones of  

HODGKINSON, A. 357-367

Calculi, renal, relations between oxalic acid, calcium, magnesium and creatinine excretion in normal men and male patients with  

HODGKINSON, A. 357-367

Calculi, renal, tracer studies of plasma concentration and renal excretion of oxalate in patients with  

HODGKINSON, A. & WILKINSON, R. 61-73

Carbenoxolone, effect of triterpenoids related to, on human pepsins and pepsinogens and on bovine trypsin and chymotrypsin  

Subject index

Carbohydrate, mechanism of increased excretion of sodium during a fast and decreased excretion on subsequent feeding with North, K.A.K., Lascelled, D. & Coates, P. 423-432

Carbon dioxide, arterial, relationship between partial pressure of, and hydrogen ion concentration in chronic metabolic acidosis Bone, J.M., Cowie, J., Lambie, A.T. & Robson, J.S. 113-123

Cardiac failure, left ventricular function in chronic obstructive pulmonary disease with Laszlo, G. & Schrizen, F. 281-282


Carnosine, competition between, and other peptides for transport by hamster jejunum in vitro Addison, J.M., Matthews, D.M. & Burston, D. 707-714

Catheter tip velocity transducer, measurement of maximum acceleration of blood in the aorta by Bennett, E.D., Else, W., Miller, G.D.H., Sutton, G.C., Miller, H.C. & Noble, M.M. 49-59

Cations, content and transport characteristics of, of the sickle-cell erythrocyte and their relationship with structural changes in the membrane Kurantsin-Mills, J., Kudo, M. & Koto Addae, S. 679-692

Cerebrospinal fluid, transport of 5-methyltetrahydrofolic acid into, in man Chanarin, I., Perry, J. & Reynolds, E.H. 369-373

Chemotaxis, effect of adenosine 3':5'-cyclic monophosphate on, of human platelets Barnes, F.S., Gamow, E., Burns, A. & De Boisfleury, A. 307-309

Chenodeoxycholic acid, formation of, in man Einarsson, K. & Hellström, K. 183-190

Cholecalciferol, metabolism of, in rats and pigs treated with phenobarbitone Silver, J., Neale, G. & Thompson, G.R. 433-448

Cholesterol, effect of nicotinic acid on metabolism of, in monkeys Magide, A.A. & Myant, N.B. 527-538

Cholic acid, conversion of, into deoxycholic acid in man Einarsson, K. & Hellström, K. 183-190


Circadian rhythm of the total hydroxyproline:creatinine ratio in urine Maustalen, C.A. & Wharton, B.A. 419-421

Circulation, effect of increasing work rate on, for assessment of the physiological strain of submaximal exercise Spiro, S.G., Juniper, E., Bowman, P. & Edwards, R.H.T. 191-206

Citrulline, 14C-labelled, urea excretion in a patient with argininosuccinic aciduria after ingestion of Crane, C.W., Jenner, F.A. & Pollitt, R.J. 715-727

Clearance, renal, ratio of, for albumin and creatinine in patients with renal disease Lavender, S., Bennett, J., Morse, P.F. & Polak, A. 775-784

Subject index


Colon, effect of aldosterone on the potential difference of, and renal electrolyte excretion in normal man  EFSTRATOPOULOS, A.D., Peart, W.S. & Wilson, G.A.  489-499

Colony formation, effects of drugs that cause neutropenia on, by bone-marrow cells in semi-solid agar  HOWELL, A., CHNN, S., ANDREWS, T.M. & WATTS, R.W.E.  619-628


Cortisol, plasma, effects of epidural anaesthesia on  COSGROVE, D.O. & JENKINS, J.S.  403-407

Creatinine, ratio of clearance of, to albumin clearance in patients with renal disease  LAVENDER, S., BENNETT, J., MORSE, P.F. & POLAK, A.  775-784

Creatinine, relations between excretion of, and oxalic acid, calcium and magnesium in normal men and male patients with calcium oxalate kidney stones  HODGKINSON, A.  357-367

Cromoglycate, sodium, assessment of possible site of action of, in patients with exercise-induced asthma  GODFREY, S., ZIEDIFARD, E., BROWN, K. & BELL, J.H.  265-272

Cyclic adenosine monophosphate see Adenosine 3':5'-cyclic monophosphate

Cystinuria, homoarginine in  COX, B.D. & CAMERON, J.S.  173-182

Dehydroepiandrosterone, presence of, in urine and plasma of patients with acute intermittent porphyria  PAXTON, J.W., MOORE, M.R., BEATTIE, A.D. & GOLDBERG, A.  207-222

Deoxycholic acid, formation of, in man  EINARSSON, K. & HELLSTRÖM, K.  183-190

Deoxycorticosterone, effect of, on the influence of volume expansion on renal diluting capacity in the rat  MARTINEZ-MALDONADO, M., EKNOYAN, G. & SUKI, W.N.  331-345


Diabetes mellitus, ventilatory response in ketoacidosis of  FULOP, M., DREYER, N. & TANNERBAUM, H.  519-549

Dialysis, regular, cell sodium, potassium and water in uraemia and the effects of, as studied in the leucocyte  PATRICK, J. & JONES, N.F.  583-590


5,5-Dimethyloxazolidine-2,4-dione, unlabelled, effect of varying the amount of, in the measurement of rat hepatic intracellular pH by using 5,5-[¹⁴C]dimethyloxazolidine-2,4-dione  ILES, R.A. & COHEN, R.D.  277-280


Dipeptides, transport of, by the human small intestine studied by a perfusion technique  SILK, D.B.A., PERRETT, D., WEBB, J.P.W. & CLARK, M.L.  393-402

Diphenylhydantoin, effect of, on insulin response  CUDWORTH, A.G. & CUNNINGHAM, J.L.  131-136

Diuretics, effects of, on urinary phosphate in the dog  DUARTE, C.G.  671-678
Subject

Dopamine, comparison of the renin response to, and noradrenaline in normal subjects and patients with autonomic insufficiency  Wilcox, M.J., Aminoff, M.J., Kurtz, A.B. & Slater, J.D.H. 481–488

Double-antibody radioimmunoassay, interference of human IgG with, of thyrotrophic hormone and its clinical significance  Chapman, C., Hutton, W.N. & Hayter, C.J. 651–654

Electrolyte, mechanism of increased excretion of, during fasting  North, K.A.K., Lascelles, D. & Coates, P. 423–432


Electrolytes, cell, effects of regular dialysis on, in uraemia as studied in the leucocyte  Patrick, J. & Jones, N.F. 583–590

Electrolytes, effect of aldosterone on colonic potential difference and renal excretion of, in normal man  Estratopulos, A.D., Peart, W.S. & Wilson, G.A. 489–499


Embolism, air, fission of microbubbles upon collision in plasma and  Hills, B.A. 629–634

Enzyme, plasma, changes in, and isoenzyme during perfusion of isolated pig liver  Buttery, J.E., Parbhoo, S.P. & Baron, D.N. 105–112

Erythrocyte, sickle-cell, cation content and transport characteristics of, and their relationship with structural changes in the membrane  Kurantsin-Mills, J., Kudo, M. & Kojo Addae, S. 679–692


Erythrocytes, plasma tocopherol levels and susceptibility of, to Heinz body formation  Tudhope, G.R. & Hopkins, J. 635–645


Ethacrynic acid, effects of, and frusemide on urinary phosphate in the dog  Duarte, C.G. 671–678


Exercise, submaximal, increasing work rate test for assessing physiological strain of  Spiro, S.G., Juniper, E., Bowman, P. & Edwards, R.H.T. 191–206

Exercise-induced asthma, maximal expiratory flow and lung volume changes associated with, in children and the effect of breathing a low-density gas mixture  Benatar, S.R. & König, P. 317–329

Extracellular fluid, hypo-osmolal, sodium and potassium transport rates in normal human leucocytes in  Hilton, P.J. & Patrick, J. 613–617

Extracellular fluid, influence of volume expansion of, on renal diluting capacity in the rat  Martinez-Maldonado, M., Eknoyan, G. & Sukl, W.N. 331–345
Fast, mechanism of increased excretion of sodium during, and of decreased excretion on subsequent carbohydrate feeding NORTH, K.A.K., LASCELLES, D. & COATES, P. 423-432

Fasting, effect of, on the rate of purine biosynthesis de novo in rat spleen SEMPLE, P.F., HENDERSON, A.R. & BOYLE, J.A. 37-47

Fat, effect of intravenous administration of, on plasma post-heparin lipolytic activity in patients with malabsorption PRESS, M. & THOMPSON, G.R. 743-751

Fatty acid, synthesis of, de novo in human adipose tissue GOLDRICK, R.B. & GALTON, D.J. 469-479

Fever, development of, in response to pyrogens in sheep PITTMAN, Q.J., COOPER, K.E., VEALE, W.L. & VAN PETTEN, G.R. 591-602


Folate, hepatic protein binding of CORROCHER, R., DE SANDRE, G., PACOR, M.L. & HOFFBRAND, A.V. 551-554

Folate coenzymes, conversion of folic acid into, in man LAVOIE, A. & COOPER, B.A. 729-741

Folic acid, rapid transfer of, from blood to bile in man LAVOIE, A. & COOPER, B.A. 729-741

Frusemide, effects of, and ethacrynic acid on urinary phosphate in the dog DUARTE, C.G. 671-678

Frusemide, haemodynamic effects of, given intravenously to patients with myocardial infarction and left ventricular failure TATTERTSFIELD, A.E., McNICOL, M.W. & SILLETT, R.W. 253-264


Gilbert’s syndrome see Hyperbilirubinaemia

Glucagon, transfer of, in human placenta MOORE, W.M.O., WARD, B.S. & GORDON, C. 125-129

Glucuronidation, increased, of bilirubin in man and rat by administration of antipyrine ORME, M.L’E., DAVIES, L. & BRECKENRIDGE, A. 511-518

Glycyl-L-leucine hydrolase, distribution of soluble and particulate forms of, in the small intestine DAS, M. & RADHAKRISHNAN, A.N. 501-510

Gout, rate of purine biosynthesis de novo in SEMPLE, P.F., HENDERSON, A.R. & BOYLE, J.A. 37-47

Haemodynamics, effect of intravenous frusemide on, of patients with myocardial infarction and left ventricular failure TATTERTSFIELD, A.E., McNICOL, M.W. & SILLETT, R.W. 253-264


Heart, growth of, and lungs in hypoxic rodents HUNTER, C., BARER, G.R., SHAW, J.W. & CLEGG, E.J. 375-391
Subject index

Heart, ischaemic, maximum acceleration of blood from the left ventricle of, in patients

Heinz bodies, plasma tocopherol levels and the susceptibility of erythrocytes to formation of
TUDHOPE, G.R. & HOPKINS, J. 635–645

Heparin, effect of intravenous administration of fat on lipolytic activity of plasma after, in
patients with malabsorption PRESS, M. & THOMPSON, G.R. 743–751

Heparin, effect of, on activity of lipoprotein lipase in eluates of human adipose tissue
ELKELES, R.S. 753–762

Heparin, lipolytic activity and tissue lipoprotein lipase activity after, in the alloxan-diabetic
rat ELKELES, R.S. & WILLIAMS, E. 661–664

Hepatic failure, experimental, acute, plasma amino acids in, and their relationship to brain
tryptophan BUXTON, B.H., STEWART, D.A., MURRAY-LYON, I.M., CURZON, G. &
M.I.M. 49–59 TUDHOPE, G.R. & HOPKINS, J. 635–645

Homogarginine in cystinuria COX, B.D. & CAMERON, J.S. 173–182

Hormones, effects of, on production of 1,25-dihydroxycholecalciferol in isolated chick renal
tubules LARKINS, R.G., MACAULEY, S.J., RAPPORT, A., MARTIN, T.J., TULLOCH, B.R.,
BYFIELD, P.G.H., MATTHEWS, E.W. & MACINTYRE, I. 569–582

Hydrogen ion, arterial, relationship between concentration of, and \( \text{PCO}_2 \) in chronic metabolic

25-Hydroxycholecalciferol, affinity of calciferol analogues for receptors for
THIND, G.S. & FISCHER, G.M. 143–147

25-Hydroxycholecalciferol, competitive protein-binding assay for EDELSTEIN, S., CHARMAN,
M., LAWSON, D.E.M. & KODICEK, E. 231–240

Hydroxyproline: creatinine ratio, circadian rhythm of, in urine MAUTALEN, C.A. & WHARTON,
B.A. 419–421

Hyperbilirubinaemia, unconjugated, effect of phenobarbitone on plasma [\(^{14}\text{C}\)]bilirubin clear-
ance in patients with BLACK, M., FEVRY, J., PARKER, D., JACOBSON, J., BILLING, B.H.
& CARSON, E.R. 1–17

Hypertension, relationship of plasma zinc to, in man GREENBERG, P.B., HILLYARD, C.J.,
GALANTE, L.S., COLSTON, K.W., EVANS, I.M.A. & MACINTYRE, I. 137–142

Hypoxaemia, reflex respiratory drive and, in patients with chronic bronchitis LEE, K.D. &
BISHOP, J.M. 347–356

Hypoxia, experimental, growth of heart and lungs in rodents in HUNTER, C., BARER, G.G.R.,
SHAW, J.W. & CLEGG, E.J. 375–391

Hypoxic disease, human, growth of heart and lungs in hypoxic rodents as a model of HUNTER,
C., BARER, G.R., SHAW, J.W. & CLEGG, E.J. 375–391

Immunoglobulin G, human, interference of, with the double-antibody radioimmunoassay
of thyrotrophic hormone and its clinical significance CHAPMAN, C., HUTTON, W.N. &
HAYTER, C.J. 651–654

Insulin, effect of diphenylhydantoin on the response to CUDWORTH, A.G. & CUNNINGHAM,
J.L. 131–136

Insulin, effect of modifying the combination of, with rat adipose cells on intracellular levels
of cyclic AMP JERUMS, G., GALTON, D.J. & GILBERT, C. 75–87
### Subject index

Interstitial gel swelling pressure, measurement of, in human subcutaneous tissue with a cotton wick  **SNASHALL, P.D. & BOOTHER, F.A.**  241–251

Intestine, small, absorption of two tripeptides by, in man studied by a perfusion technique  **SILK, D.B.A., PERRETT, D., WEBB, J.P.W. & CLARK, M.L.**  393–402

Intestine, small, distribution of soluble and particulate glycyl-L-leucine hydrolase in  **DAS, M. & RADHAKRISHNAN, A.N.**  501–510


Ischaemic heart disease, maximum acceleration of blood from the left ventricle in patients with  **BENNETT, E.D., ELSE, W., MILLER, G.D.H., SUTTON, G.C., MILLER, H.C. & NOBLE, M.I.M.**  49–59

Isoenzyme, plasma, changes in, and enzyme during perfusion of isolated pig liver  **BUTTERY, J.E., PABHOO, S.P. & BARON, D.N.**  105–112

Isoenzymes, studies of, in identification of transplanted muscle in the mouse  **NEERUNJUN, J.S. & DUBOWITZ, V.**  555–558

Isoprenaline, effect of, on intracellular levels of cyclic AMP  **JERUMS, G., GALTON, D.J. & GILBERT, C.**  75–87


Jejunum, hamster, competition between carnosine and other peptides for transport in vitro by  **ADDISON, J.M., MATTHEWS, D.M. & BURSTON, D.**  707–714

Ketoacidosis, diabetic, ventilatory response in  **FULOP, M., DREYER, N. & TANNENBAUM, H.**  539–549

Kidney, albumin and creatinine clearances in patients with disease of  **LAVENDER, S., BENNETT, J., MORSE, P.F. & POLAK, A.**  775–784


Kidney, dog, increase in lymph flow in, induced by vasopressin  **LEBRIE, S.J. & GOTTBAHL, R.W.**  603–612

Kidney, effect of aldosterone on colonic potential difference and excretion in normal man of electrolytes by  **ESTRATOPoulos, A.D., PEART, W.S. & WILSON, G.A.**  489–499

Kidney, excretion of oxalate by, in man  **HODGKINSON, A. & WILKINSON, R.**  61–73

Kidney, rat, effects of proteins from urine of patients with myelomatosis and nephrosis on function in vitro of slices of  **PREUSS, H.G., WEISS, F.R., IAMMARINO, R.M., HAMMACK, W.J. & MURDAUGH, H.V., Jr**  283–294

Kidney, rat, perfused, isolated, effect of angiotensin on the vasculature of  **CROSS, R.B., TRACE, J.W. & VATTUONE, J.R.**  647–650
Subject index

Kidney stones (calcium oxalate), relations between excretion of oxalic acid, calcium, magnesium and creatinine in normal men and patients with HODGKINSON, A. 357–367


Leucocytes, cell sodium, potassium and water in uraemia and the effects of regular dialysis as studied in PATRICK, J. & JONES, N.F. 583–590

Leucocytes, human, normal, sodium and potassium transport rates in, in hypo-osmolal extracellular fluid HILTON, P.J. & PATRICK, J. 613–617

Leucocytes, total body, plasma and erythrocyte potassium and ascorbic acid of, in ‘ultra-fit’ subjects BODDY, K., HUME, R., KING, P.C., WEYERS, E. & ROWAN, T. 449–456

Light chains, effects on rat kidney-slice function in vitro of urinary proteins heavily laden with, from patients with myelomatosis and nephrosis PREUSS, H.G., WEISS, F.R., IAMMARINO, R.M., HAMMACK, W.J. & MURDAUGH, H.V., Jr 283–294

Lipids, serum, effect of nicotinic acid on, in monkeys MAGIDE, A.A. & MYANT, N.B. 527–538

Lipoprotein lipase, presence of, in human adipose tissue ELKELES, R.S. 753–762

Lipoprotein lipase, tissue activity of, after heparin in the alloxan-diabetic rat ELKELES, R.S. & WILLIAMS, E. 661–664


Lithium, accumulation of, in bone after oral administration in rat and in man BIRCH, N.J. 409–413

Liver, pig, isolated, changes in plasma enzymes and isoenzyme during perfusion of BUTTERY, J.E., PARBHOO, S.P. & BARON, D.N. 105–112

Liver, rat, measurement of intracellular pH of, by using 5,5-[^14C]dimethylxazolidine-2,4-dione ILES, R.A. & COHEN, R.D. 277–280


Lung volume, changes in maximal expiratory flow and, associated with exercise-induced asthma in children BENATAR, S.R. & KÖNIG, P. 317–329

Lungs, growth of, and heart in hypoxic rodents HUNTER, C., BARER, G.R., SHAW, J.W. & CLEGG, E.J. 375–391

Lymph, increase in renal flow of, and natriuresis induced by vasopressin in the dog LEBRIE, S.J. & GOTSHALL, R.W. 603–612

Magnesium, relations between excretion of, and oxalic acid, calcium and creatinine in normal man and male patients with calcium oxalate kidney stones HODGKINSON, A. 357–367

Malabsorption, effect of intravenous administration of fat on plasma post-heparin lipolytic activity in patients with PRESS, M. & THOMPSON, G.R. 743–751

Membrane, sickle-cell erythrocyte, relationship of cation content and transport characteristics with structural changes in KURANTSIN-MILLS, J., KUDO, M. & KOJO ADDAE, S. 679–692
Subject index

Metabolic acidosis see Acidosis
Metabolic alkalosis see Alkalosis
5-Methyltetrahydrofolic acid, transport of, into cerebrospinal fluid in man  
CHANARIN, I., PERRY, J. & REYNOLDS, E.H.  369–373
Microbubbles, fission of, upon collision in plasma  
HILLS, B.A.  629–634
Monoglyceride lipase, presence of, in human adipose tissue  
ELKELES, R.S.  753–762
Muscle, transplanted, isoenzyme studies in identification of, in the mouse  
NEERUNJUN, J.S. & DUBOWITZ, V.  555–558
Myelomatosis, effects on rat kidney-slice function in vitro of proteins from urine of patients  
with  
Myocardial infarction, haemodynamic effects of intravenous frusemide in patients with  
TATTERSFIELD, A.E., McNICOL, M.W. & SILLETT, R.W.  253–264
Nephrosis, effects on rat kidney-slice function in vitro of proteins from urine of patients with  
Neutropenia, drug-induced, and colony formation by bone-marrow cells in semi-solid agar  
HOWELL, A., CHINN, S., ANDREWS, T.M. & WATTS, R.W.E.  619–628
Newborn lambs, development of the febrile response to pyrogens in  
PITTMAN, Q.J., COOPER, K.E., VEALE, W.L. & VAN PETTEN, G.R.  591–602
Nicotinic acid, effect of, on cholesterol metabolism in monkeys  
MAGIDE, A.A. & MYANT, N.B.  527–538
Noradrenaline, comparison of the renin response to, and dopamine in normal subjects and  
patients with autonomic insufficiency  
Nucleotides, effects of, on production of 1,25-dihydroxycholecalciferol in isolated chick renal  
tubules  
Obesity, fatty acid synthesis de novo in adipose tissue of subjects with  
GOLDRICK, R.B. & GALTON, D.J.  469–479
Osmotic pressure, plasma and interstitial, relationship between wick pressure and  
SNASHALL, P.D. & BOOTHER, F.A.  241–251
Oxalate, plasma, tracer studies of concentration and renal excretion of, in man  
HODGKINSON, A. & WILKINSON, R.  61–73
Oxalic acid, relations between excretion of, and calcium, magnesium and creatinine in normal  
men and male patients with calcium oxalate kidney stones  
HODGKINSON, A.  357–367
17-Oxosterol, conjugates of, in plasma and urine of patients with acute intermittent porphyria  
PAXTON, J.W., MOORE, M.R., BEATTIE, A.D. & GOLDBERG, A.  207–222
Oxygen, normal alveolar–arterial gradient of, in man  
Paraproteinaemia, thyrotrrophic hormone in plasma of patients with  
CHAPMAN, C., HUTTON, W.N. & HAYTER, C.J.  651–654
Subject index


Particles, effect of various sizes of, of sodium cromoglycate on exercise-induced asthma Godfrey, S., Ziedifard, E., Brown, K. & Bell, J.H. 265-272


Peptidases, intestinal, distribution of soluble and particulate forms of Das, M. & Radhakrishnan, A.N. 501-510


Peptides, competition between, for transport by hamster jejunum in vitro Addison, J.M., Matthews, D.M. & Burstorn, D. 707-714


Phenazine see Antipyrine

Phenobarbitone, effect of, on glucuronidation of bilirubin in man and rat Orme, M.L'E., Davies, L. & Breckenridge, A. 511-518


Phenobarbitone, effect of treatment with, on vitamin D metabolism in mammals Silver, J., Neale, G. & Thompson, G.R. 433-448

Phosphate, urinary, effects of ethacrynic acid and frusemide on, in the dog Duarte, C.G. 671-678

Phosphohexose isomerase, isoenzyme pattern of, in identification of transplanted muscle in the mouse Neerunjn, J.S. & Dubowitz, V. 555-558

Phosphorus (^{32}P), influence of salmon calcitonin on the distribution of, in polycythaemic patients Paillard, F., Ardaillou, R. & Vallée, G. 655-659

Pituitary gland, effects of epidural anaesthesia on the response of, and adrenal gland to surgery Cosgrove, D.O. & Jenkins, J.S. 403-407

Placenta, human, transfer of glucagon in Moore, W.M.O., Ward, B.S. & Gordon, C. 125-129

Plasma, changes in enzymes and isoenzyme of, during perfusion of isolated pig liver Buttery, J.E., Parbhoo, S.P. & Baron, D.N. 105-112

Plasma, concentration of oxalate in, and renal excretion of oxalate in man Hodgkinson, A. & Wilkinson, R. 61-73
Subject index

Platelets, blood, directional effects of adenosine 3′:5′-cyclic monophosphate on  Barnes, F.S., Gamow, E., Burns, A. & De Boisfleury, A.  307–309
Porphyria, intermittent, acute, 17-oxosteroid conjugates in plasma and urine of patients with  Paxton, J.W., Moore, M.R., Beatte, A.D. & Goldberg, A.  207–222
Potassium, cell, effects of regular dialysis on, in uraemia as studied in the leucocyte  Patrick, J. & Jones, N.F.  583–590
Potassium, content and transport characteristics of, of the sickle-cell erythrocyte and the relationship of cations with structural changes in the membrane  Kurantsin-Mills, J., Kudo, M. & Kojo Addae, S.  679–692
Potassium, plasma, effects of angiotensin on concentrations of, in rabbits and in man  Healy, J.K., Elliott, A.J. & Harrison, L.C.  19–36
Potassium, total body, plasma and erythrocyte content of, and leucocyte ascorbic acid in ‘ultra-fit’ subjects  Boddy, K., Hume, R., King, P.C., Weyers, E. & Rowan, T.  449–456
Protein-binding assay, competitive, for 25-hydroxycholecalciferol  Edelstein, S., Charman, M., Lawson, D.E.M. & Kodicek, E.  231–240
Proteinuria, albumin and creatinine clearances in patients with  Lavender, S., Bennett, J., Morse, P.F. & Polak, A.  775–784
Psychoses, effect on bone of oral administration of lithium in  Birch, N.J.  409–413
Pulmonary disease, obstructive, chronic, left ventricular function in, with and without cardiac failure  Laszlo, G. & Schrizen, F.  281–282
Pyrogens, development of the febrile response to, in sheep  Pittman, Q.J., Cooper, K.E., Veale, W.L. & Van Petten, G.R.  591–602
Receptors, cytosol, kidney, affinity of calciferol analogues for  Thind, G.S. & Fischer, G.M.  143–147
Renin, action of angiotensin antagonists and antiserum upon the pressor response to  Thurstom, H. & Swales, J.D.  273–276
Renin, plasma, correlation with activity of, of the pressor response to intravenously infused angiotensin II  Deheneffe, J. & Bernard, A.  149–161
Subject index

Respiration, reflex stimulation of, by hypoxia in patients with chronic bronchitis  
Lee, K.D. & Bishop, J.M. 347–356

Shy–Drager syndrome, comparison of the renin response to dopamine and noradrenaline in normal subjects and patients with  

Sickle-cell erythrocyte, cation content and transport characteristics of, and their relationship with structural changes in the membrane  
Kurantsin-Mills, J., Kudo, M. & Kojo Addae, S. 679–692

Sodium, cell, effects of regular dialysis on, in uraemia as studied in the leucocyte  
Patrick, J. & Jones, N.F. 583–590

Sodium, content and transport characteristics of, of the sickle-cell erythrocyte and the relationships of cations with structural changes in the membrane  
Kurantsin-Mills, J., Kudo, M. & Kojo Addae, S. 679–692

Sodium, increase in renal lymph flow and excretion of, induced by vasopressin in the dog  
Le-Brie, S.J. & Gotshall, R.W. 603–612

Sodium, influence of volume expansion on the absorption of, in the rat  
Martinez-Maldonado, M., Eknoyan, G. & Suki, W.N. 331–345

Sodium, mechanism of increased excretion of, during fasting and of reduction of excretion on subsequent carbohydrate feeding  
North, K.A.K., Lascelles, D. & Coates, P. 423–432

Sodium, plasma, effects of angiotensin on concentrations of, in rabbits and in man  
Healy, J.K., Elliott, A.J. & Harrison, L.C. 19–36

Sodium, transport rates of, in normal human leucocytes in hypo-osmolal extracellular fluid  
Hilton, P.J. & Patrick, J. 613–617

Spleen, rat, effect of fasting and food on the rate of purine biosynthesis de novo in  

Steroids, effect of nicotinic acid on the faecal excretion of, in monkeys  
Magide, A.A. & Myant, N.B. 527–538

Subcutaneous tissue, human, interstitial gel swelling pressure in, measured with a cotton wick  
Snashall, P.D. & Boother, F.A. 241–251

Surgery, effects of epidural anaesthesia on the pituitary–adrenal response to  
Cosgrove, D.O. & Jenkins, J.S. 403–407

Thyrocalcitonin, effect of intravenously administered $^{47}$Ca at the onset of alimentary absorption of unlabelled calcium and secretion of  
Kocian, J. & Brodan, V. 311–316

Thyrotrophic hormone, interference of human IgG with the double-antibody radioimmunoassay of, and its clinical significance  
Chapman, C., Hutton, W.N. & Hayter, C.J. 651–654

Tocopherol, plasma, concentrations of, and the susceptibility of erythrocytes to Heinz body formation  
Tudhope, G.R. & Hopkins, J. 635–645

Transferrin, evidence that desialylation of, does not occur in rabbits in vivo  

Transplant, muscle, isoenzyme studies in identification of, in the mouse  
Neerunjun, J.S. & Dubowitz, V. 555–558
Subject index

Transport, active, evidence for, of the dipeptide carnosine by hamster jejunum in vitro MATTHEWS, D.M., ADDISON, J.M. & BURSTON, D. 693–705
Transport, competition between carnosine and other peptides for, by hamster jejunum in vitro ADDISON, J.M., MATTHEWS, D.M. & BURSTON, D. 707–714
Transport, rates of, for sodium and potassium in normal human leucocytes in hypo-osmolar extracellular fluid HILTON, P.J. & PATRICK, J. 613–617
Transport, renal tubular, homoarginine and, of amino acids COX, B.D. & CAMERON, J.S. 173–182
‘Ultra-fit’ subjects, total body, plasma and erythrocyte potassium and leucocyte ascorbic acid in BODDY, K., HUME, R., KING, P.C., WEVERS, E. & ROWAN, T. 449–456
Uraemia, effects of regular dialysis on cell sodium, potassium and water in, as studied in the leucocyte PATRICK, J. & JONES, N.F. 583–590
Urea, relationship between formation of, and argininosuccinate in a patient with argininosuccinic aciduria CRANE, C.W., JENNER, F.A. & POLLITT, R.J. 715–727
Urine, effects on rat kidney-slice function in vitro of proteins from, of patients with myelomatosis and nephrosis PREUSS, H.G., WEISS, F.R., IAMMARINO, R.M., HAMMACK, W.J. & MURDAUGH, H.V., Jr 283–294
Vasopressin, increase in renal lymph flow and natriuresis induced by, in dogs LEBRIE, S.J. & GOTSHALL, R.W. 603–612
Ventilation, effect of increasing work rate on, for assessment of the physiological strain of submaximal exercise SPIRO, S.G., JUNIPER, E., BOWMAN, P. & EDWARDS, R.H.T. 191–206
Ventilation, response of, to metabolic acidosis FULOP, M., DREYER, N. & TANNENBAUM, H. 539–549
Ventricle, heart, left, function of, in chronic obstructive pulmonary disease with and without cardiac failure LASZLO, G. & SCHRIJEN, F. 281–282
Ventricle, heart, left, haemodynamic effects of intravenous frusemide in patients with failure of TATTERSFIELD, A.E., MCNICOL, M.W. & SILLETT, R.W. 253–264
Ventricle, heart, right, hypertrophy of, in hypoxic rodents HUNTER, C., BARER, G.R., SHAW, J.W. & CLEGG, E.J. 375–391
Subject index


Vitamin D, effect of treatment with phenobarbitone on metabolism of, in mammals  SILVER, J., NEALE, G. & THOMPSON, G.R.  433–448

Water, cell, effects of regular dialysis on, in uraemia as studied in the leucocyte  PATRICK, J. & JONES, N.F.  583–590

Wick, cotton, use of, to measure interstitial gel swelling pressure in human subcutaneous tissue  SNASHALL, P.D. & BOOTHER, F.A.  241–251

Work, test of increasing rate of, for assessing physiological strain of submaximal exercise  SPIRO, S.G., JUNIPER, E., BOWMAN, P. & EDWARDS, R.H.T.  191–206

X, Y and Z protein fractions, binding of folic acid to, in rat liver  CORROCHER, R., DE SANDRE, G., PACOR, M.L. & HOFFBRAND, A.V.  551–554