Volume 42

AUTHOR INDEX

ABRAMS, M., see Stimmler, L. et al.

ADAMS, P.W., see Rose, D.P. et al.


ADAMSON, A.R., see Boyd, G.W. et al.

AHUMADA, J.J., see Massry, S.G. & Ahumada, J.J.


ALLAN, J.G., see Russell, R.I. et al.

ANDO, T., see Rasmussen, K. et al.

ARNOLD, MARION, see Boyd, G.W. et al.

ASATOOR, A.M., see Bourke, E. et al.

ASTIN, T.W. Reversibility of airways obstruction in chronic bronchitis

BAKE, B., FUGL-MEYER, A.R. & GRIMBY, G. Breathing patterns and regional ventilation distribution in tetraplegic patients and in normal subjects

BALASUBRAMANIAM, P., see Jowsey, Jenifer & Balasubramaniam, P.

BALDOLI, E., see Bianchi, G. et al.

BALESTRI, P.L., RINDI, P., BIAGINI, M. & GIOVANNETTI, S. Effects of uraemic serum, urea, creatinine and methylguanidine on glucose metabolism

BARBIN, P., see Bianchi, G. et al.

BARDI, U., see Bianchi, G. et al.

BARNETT, D., see Iles, R.A. et al.

BARTTER, F.C., see Gill, John R., Jr, et al.

BEILIN, L.J. & ZIKAAS, G. Vascular reactivity in post-deoxycorticosterone hypertension in rats and its relation to 'irreversible' hypertension in man

BERNAUER, E.M., see Adams, W.C. et al.


BIAGINI, M., see Balestri, P.L. et al.

BIANCHI, G., BALDONI, E., LUCCA, R. & BARBIN, P. Pathogenesis of arterial hypertension after the constriction of the renal artery leaving the opposite kidney intact both in the anaesthetized and in the conscious dog


BOUCHER, B., see Stimmler, L. et al.

BOURKE, E., ASATOOR, A.M. & MILNE, M.D. Mechanisms of excretion of some low-molecular-weight bases in the rat
Author index

BOYD, G.W., ADAMSON, A.R., ARNOLD, MARION, JAMES, V.H.T. & PEART, W.S. The role of angiotensin II in the control of aldosterone in man 91

BRADFORD, BERENICE, see Patrick, J. & Bradford, Berenice

BUCHANAN, W.W., see Dick, W.C. et al.

BUCKALEW, V.M., JR & LANCASTER, C.D., Jr. The association of a humoral sodium transport inhibitory activity with renal escape from chronic mineralocorticoid administration in the dog 69

CAMPPOLO, L., see Bianchi, G. et al.

CAYTON, RUTH M. & HOWARD, P. Peripheral airways resistance, static recoil and the forced expiratory volume 505

CHAMBERLAIN, M.J., see Hosking, D.J. & Chamberlain, M.J.

CHINN, R.H. & DÜSTERDIECK, GISELA. The response of blood pressure to infusion of angiotensin II: relation to plasma concentrations of renin and angiotensin II 489

CLARKSON, E.M. & DE WARDENER, H.E. Inhibition of sodium and potassium transport in separated renal tubule fragments incubated in extracts of urine obtained from salt-loaded individuals 607

CLOUGH, G., see Saxton, C. et al.

COFFMAN, J.D. Total and nutritional blood flow in the finger 243

COGLAN, J.P., DOYLE, A.E., JERUMS, G. & SCOGGINS, B.A. The effects of sodium loading and deprivation on plasma renin and plasma and urinary aldosterone in hypertension 15

COHEN, R.D., see Iles, R.A. et al.

COLLINS, K.E., see Dick, W.C. et al.

COOK, G.C. Effect of intraluminal concentrations on the impairment of glycine absorption by glucose in the human jejunum 525

COTES, J.E., DABBS, J.M., ELWOOD, P.C., HALL, A.M., MCDONALD, A. & SAUNDERS, M.J. Iron-deficiency anaemia: its effect on transfer factor for the lung (diffusing capacity) and ventilation and cardiac frequency during sub-maximal exercise 325

COTTOM, D., see Rasmussen, K. et al.

CRAFT, I., see Stephens, M.E.M. et al.

CRAWLEY, J., see Fluck, D.C. et al.

CROWSHAW, K., see McGiff, J.C. et al.

DABBS, J.M., see Cotes, J.E. et al.

DAVIES, C.T.M. The oxygen-transporting system in relation to age 1

DELEA, CATHERINE S., see Gill, John R., Jr, et al.

DERENZO, CAROL, see Thilenius, O.G. & Derenzo, Carol

DE WARDENER, H.E., see Clarkson, E.M. & de Wardener, H.E.

DICK, W.C., COLLINS, K.E. & BUCHANAN, W.W. Clinical studies on inflammation in small diarthrodial joints. Technetium (99mTc) percentage uptakes in various arthritides and studies on the effect of aspirin in rheumatoid arthritis 383

DISSMANN, TH., see Molzahn, M. et al.

DONNELL, G., see Rasmussen, K. et al.

DOWDY, A.J., see Wilkinson, R. et al.
Author index

DOYLE, A.E., see Coghlan, J.P. et al.
DÜSTERDIECK, GISELA, see Chinn, R.H. & Düsterdieck, Gisela

EDE, M.C. MOORE, FAULKNER, M.H. & TREDRE, BARBARA E. An intrinsic rhythm of urinary calcium excretion and the specific effect of bedrest on the excretory pattern 433

EGGERS, G.W.N., Jr, see Kravec, T.F. et al.

ELWOOD, P.C., see Cotes, J.E. et al.

ETHERINGTON, D.J. & TAYLOR, W.H. The proteinases of human gastric adenocarcinomata: their identification, separation and sites of action on the B-chain of oxidized insulin 79

EVANS, D.J., see Naish, P. et al., see also Swales, J.D. et al.

EVANS, T.R., see Fluck, D.C. et al.

FAULKNER, M.H., see Ede, M.C. Moore et al.

FELL, G.S., see Slater, S.D. & Fell, G.S.

FLEISCH, H., see Fraser, D. et al.


FUGL-MEYER, A.R., see Bake, B. et al.

GAMBLE, J.L., JR, ZUROMSKIS, P.J., BETTICE, J.A. & GINSBERG, R.L. Intracellular buffering in the dog at varying CO₂ tensions 311

GARDNER, D., see Trenchard, Diana et al.

GERSKOWITCH, V.P., see Russell, R.I. et al.

GIBSON, K., see Tulloch, B.R. et al.

GILL, JOHN R., JR, DELEA, CATHERINE S. & BARTTER, F.C. A role for sodium-retaining steroids in the regulation of proximal tubular sodium reabsorption in man 423

GINSBERG, R.L., see Gamble, J.L., Jr, et al.

GIOVANNETTI, S., see Balestri, P.L. et al.

GODFREY, S. & WOLF, ELIANA. An evaluation of rebreathing methods for measuring mixed venous PCO₂ during exercise 345

GOLDBERG, A., see O'Keane, Maureen et al.

GONZALES, C., see Wilkinson, R. et al.

GRAL, T., see Rettori, V. et al.

GRAZIANI, G., see Bianchi, G. et al.

GRIMBY, G., see Bake, B. et al.

GRIMSHAW, V.A., see Stoker, J.B. et al.

GUZ, A., see Jain, S.K. et al., see also Trenchard, Diana et al.

HACKENG, W.H.L., see Joffe, B.I. et al.

HALIM, S., see Molzahn, M. et al.
Author index

HALL, A.M., see Cotes, J.E. et al.
HARDING, P.E., see Rose, D.P. et al.
HARRIS, G.S. & PALMER, W.A. Effect of increased sodium ion on arterial sodium and reactivity
HARRIS, P., see Tulloch, B.R. et al.
HARDEGEN, R.G., see Joffe, B.I. et al.
HILTON, P.J., see Patrick, J. & Hilton, P.J.
HOBBRAND, A.V., see Stephens, M.E.M. et al.
HOSKING, D.J. & CHAMBERLAIN, M.J. Studies in man with 18F
HOWARD, P., see Cayton, Ruth M. & Howard. P.
HULL, D., see Rasmussen, K. et al.
JAMES, I.M. Electrolyte changes in patients with subarachnoid haemorrhage
JAMES, I.M., MACDONELL, LINDSAY & XANALATOS, C. The effect of acute portacaval shunting in dogs on cerebral and peripheral blood flow and metabolism
JAMES, I.M., see Xanalatos, C. & James, I.M.
JAMES, V.H.T., see Boyd, G.W. et al.
JERUMS, G., see Coghlan, J.P. et al.
JOFFE, B.I., HACKENG, W.H.L., SEFTEL, H.C. & HARTDEGEN, R.G. Parathyroid-hormone concentrations in nutritional rickets
JOWSEY, JENIFER & BALASUBRAMANIAM, P. Effect of phosphate supplements on soft-tissue calcification and bone turnover
JULKA, D.B., see Jain, S.K. et al.

KAPPAGODA, C.T., see Stoker, J.B. et al.
KETTEL, L.J., see Kravec, T.F. et al.
KIRROY, A.W., see Rasmussen, K. et al.
KINNAERT, P., see Verniory, A. et al.
KLASSEN, G.A., see Ogilvie, R.I. & Klassen, G.A.
KRAVEC, T.F., EGGERS, G.W.N., JR & KETTEL, L.J. Influence of patient age on forearm systemic vascular response to hypoxaemia
KULLMANN, L., STAAL, G.E.J. & WOUTERS, H.W. Increased adenosine triphosphate concentration in erythrocytes in neurofibromatosis
LANCASTER, C.D., JR, see Buckalew, V.M., Jr & Lancaster, C.D., Jr
LICHARDUS, B. & NIZET, A. Water and sodium excretion after blood volume expansion
under conditions of constant arterial, venous and plasma oncotic pressures and constant haematocrit

LINDEN, R.J., see Stoker, J.B. et al.
LOHMANN, F.W., see Molzahn M. et al.
LOISELLE, R.J., see Mayron, L.W. & Loiselle, R.J.
LONGIRO, A.J., see McGiff, J.C. et al.
LUCCA, R., see Bianchi, G. et al.
LUETSCHER, J.A., see Wilkinson, R. et al.
LUMBERS, EUGENIE R., see Skinner, S.L. et al.

MACDONEL, LINDSAY, see James, I.M. et al.
MACINTYRE, I., see Williams, C.C. et al.
McDONALD, A., see Cotes, J.E. et al.
Differential effect of noradrenaline and renal nerve stimulation on vascular resistance in the dog kidney and the release of a prostaglandin E-like substance

MCHENRY, M.M., see Adams, W.C. et al.
MCLEAREN, D.S., see Read, W.W.C. et al.
McNICOL, M.W., see Tattersfield, Anne E. et al.
MAJID, P.A., see Saxton, C. et al.
MALIK, K.U., see McGiff, J.C. et al.
MASHTER, K., see Stimmler, L. et al.
MASSRY, S.G. & AHUMADA, J.J. Renal vasodilation: studies on the site of action in the nephron

MASSRY, S.G., see Rettori, V. et al.
MATTHEWS, E.W., see Williams, C.C. et al.
MAYRON, L.W. & LOISELLE, R.J. Ragweed pollen: morphological changes on incubation with saliva from ragweed-allergic and non-allergic humans

MILNE, J.S. & WILLIAMSON, J. Respiratory function tests in older people

MILNE, M.D., see Bourke, E. et al.
MOLZAHN, M., DISSMANN, TH., HALIM, S., LOHMANN, F.W. & OELKERS, W. Orthostatic changes of haemodynamics, renal function, plasma catecholamines and plasma renin concentration in normal and hypertensive man

MOORE, M.R., see O'Keane, Maureen et al.
MOSELEY, JANE M., see Williams, C.C. et al.


NIZET, A., see Lichardus, B. & Nizet, A.
NOKES, G.W., see Wilkinson, R. et al.
NYHAN, W.L., see Rasmussen, K. et al.

OELKERS, W., see Molzahn, M. et al.
O'KEANE, MAUREEN, MOORE, M.R. & GOLDBERG, A. Elevation of alcohol dehydrogenase activity in the subclinically scorbutic guinea-pig 781

PALMER, W.A., see Harris, G.S. & Palmer, W.A.

PARSONS, J.A., see Robinson, C.J. et al.

PATRICK, J. & BRADFORD, BERENICE. A comparison of leucocyte potassium content with other measurements in potassium-depleted rabbits 415

PATRICK, J. & HILTON, P.J. The measurement of the extracellular space in an in vitro system of human leucocytes 647

PEARL, W.S., see Boyd, G.W. et al.

PENN, G.B., see Naish, P. et al.

PETERS, D.K., see Naish, P. et al.

PETERS, T.J., see Stephens, M.E.M. et al.

POHL, J.E.F., THURSTON, H. & SWALES, J.D. The antidiuretic action of diazoxide 145

POHLER, ORTRUN, see Fraser, D. et al.

PONTI, C. DE, see Bianchi, G. et al.

PONTICELLI, C., see Bianchi, G. et al.

POTVLIEGE, P., see Verniory, A. et al.

RAFFERTY, B., see Robinson, C.J. et al.

RAMSAY, J.M. Carbon monoxide, tissue hypoxia, and sensory psychomotor response in hypoxaemic subjects 619

RASMUSSEN, K., ANDO, T., NYHAN, W.L., HULL, D., COTTOM, D., DONNELL, G., WADLINGTON, W. & KILROY, A.W. Excretion of propionylglycine in propionic acidaemia 665

READ, W.W.C., MCLAREN, D.S. & TCHALIAN, MARIE. Urinary excretion of nitrogen from $\[^{15}\text{N}\]$valine, $\[^{15}\text{N}\]$leucine and $\[^{15}\text{N}\]$isoleucine in malnourished and recovered children 139

RECORD, C.O., see Alberti, K.G.M.M. et al.

REDAELLI, B., see Bianchi, G. et al.

RETTORI, V., GRAL, T., MASSRY, S.G. & VILLAMIL, M.F. Exchangeable potassium content and distribution in normal subjects and uraemic patients on chronic haemodialysis 673

RICHARDSON, BARBARA, see Walker, A.R.P. et al.

RINDI, P., see Balestri, P.L. et al.

ROBERTSON, J.W.K., see Russell, R.I. et al.

ROBERTSON, W.G., see Fraser, D. et al.

ROBINSON, C.J., RAFFERTY, B. & PARSONS, J.A. Calcium shift into bone: a calcitonin-resistant primary action of parathyroid hormone, studied in rats 235

ROSE, D.P., STRONG, R., ADAMS, P.W. & HARDING, P.E. Experimental vitamin B$_6$ deficiency and the effect of oestrogen-containing oral contraceptives on tryptophan metabolism and vitamin B$_6$ requirements 465

RUSSELL, R.G.G., see Fraser, D. et al.

RUSSELL, R.I., ALLAN, J.G., GERSKOWITCH, V.P. & ROBERTSON, J.W.K. A study by perfusion techniques of the absorption abnormalities in the jejunum in adult coeliac disease 735
Author index

SAUNDERS, M.J., see Cotes, J.E. et al.


SCOGGINS, B.A., see Coghlan, J.P. et al.

SEFTEL, H.G., see Joffe, B.I. et al.

SIGGERS, D.C., see Fluck, D.C. et al.

SILLETT, R.W., see Tattersfield, Anne E. et al.

SIMPSON, B.R., see Iles, R.A. et al.

SKINNER, S.L., LUMBERS, EUGENIE R. & SYMONDS, E.M. Analysis of changes in the renin–angiotensin system during pregnancy

SLATER, S.D. & FELL, G.S. Intravascular haemolysis and urinary iron losses after replacement of heart valves by a prosthesis

SMITH, E.K.M. Observations on the measurement and regulation of the sodium content of human erythrocytes

SNODGRASS, G.J.A.I., see Stimmler, L. et al.

SRIVONGSE, S.A., see Fluck, D.C. et al.

STAAL, G.E.J., see Kullmann, L. et al.

STAROUKINE, M., see Verniory, A. et al.

STEPHENS, M.E.M., CRAFT, I., PETERS, T.J. & HOFFBRAND, A.V. Oral contraceptives and folate metabolism

STIMMLER, L., MASHTER, K., SNODGRASS, G.J.A.I., BOUCHER, B. & ABRAMS, M. Insulin disappearance after intravenous injection and its effect on blood glucose in diabetic and non-diabetic children and adults


STRONG, R., see Rose, D.P. et al.

STRUNIN, J.M., see Iles, R.A. et al.

STRUNIN, L., see Iles, R.A. et al.

SUBRAMANIAN, S., see Jain, S.K. et al.

SWALES, J.D., TANGE, J.D. & EVANS, D.J. Intestinal ammonia in uraemia: the effect of a urease inhibitor, acetohydroxamic acid

SWALES, J.D., see Pohl, J.E.F. et al.

SYMONDS, E.M., see Skinner, S.L. et al.

TANGE, J.D., see Swales, J.D. et al.

TATTERSFIELD, ANNE E., MCNICOL, M.W. & SILLETT, R.W. Relationship between haemodynamic and respiratory function in patients with myocardial infarction and left ventricular failure

TAYLOR, S.H., see Saxton, C. et al.

TAYLOR, W.H. Renal calculi and self-medication with multivitamin preparations containing vitamin D

TAYLOR, W.H., see Etherington, D.J. & Taylor, W.H.

TCHALIAN, MARIE, see Read, W.W.C. et al.

TERRAGNO, N.A., see McGiff, J.C. et al.

THILENIUS, O.G. & DERENZO, CAROL. Effects of acutely induced changes in arterial
## Author index

- `pH on pulmonary vascular resistance during normoxia and hypoxia in awake dogs`  
  THURSTON, H., see Pohl, J.E.F. *et al.*  
  TONER, P.G., see Horne, C.H.W. & Toner, P.G.  
  TOUSSAINT, C., see Verniory, A. *et al.*  
  TREDRE, BARBARA E., see Ede, M.C. Moore *et al.*  
  TRENCHARD, DIANA, GARDNER, D. & GUZ, A. Role of pulmonary vagal afferent nerve fibres in the development of rapid shallow breathing in lung inflammation  
  TULLOCH, B.R., GIBSON, K. & HARRIS, P. Distribution and properties of Na\(^+\), K\(^+\)-ATPase in human post-mortem kidney and the effects of diuretics

- `Renin and control of arterial blood pressure during terminal renal failure, treated by haemodialysis and by transplantation`  
  VAN GEERTRUYDEN, J.J., see Verniory, A. *et al.*  
  VEREISSERTAETEN, P., see Verniory, A. *et al.*  

- `The influence of numerous pregnancies and lactations on bone dimensions in South African Bantu and Caucasian mothers`  
  WADLINGTON, W., see Rasmussen, K. *et al.*  
  WALKER, A.R.P., RICHARDSON, BARBARA & WALKER, FAITH. The influence of numerous pregnancies and lactations on bone dimensions in South African Bantu and Caucasian mothers

- `Studies on the mechanism of sodium excretion in uraemia`  
  WILLIAMSON, D.H., see Alberti, K.G.M.M. *et al.*  
  WILLIAMSON, J., see Milne, J.S. & Williamson, J.  
  WOLF, ELIANA, see Godfrey, S. & Wolf, Eliana.  
  WOUTERS, H.W., see Kullmann, L. *et al.*  
  WRIGHT, R., see Alberti, K.G.M.M. *et al.*

- `Effect of arterial CO\(_2\) pressure on the response of cerebral and hind-limb blood flow and metabolism to isoprenaline infusion in the dog`  
  XANALATOS, C. & JAMES, I.M. Effect of arterial CO\(_2\) pressure on the response of cerebral and hind-limb blood flow and metabolism to isoprenaline infusion in the dog

- `Effect of arterial CO\(_2\) pressure on the response of cerebral and hind-limb blood flow and metabolism to isoprenaline infusion in the dog`  
  XANALATOS, C., see James, I.M. *et al.*

- `Distribution and properties of Na\(^+\), K\(^+\)-ATPase in human post-mortem kidney and the effects of diuretics`  
  ZIAKIS, G., see Beilin, L.J. & Ziaakis, G.  
  ZUROMSKIS, P.J., see Gamble, J.L., Jr, *et al.*
SUBJECT INDEX

Absorption, abnormalities of, in the jejunum in adult coeliac disease  RUSSELL, R.I., ALLAN, J.G., GERSKOWITCH, V.P. & ROBERTSON, J.W.K.  735-741
Absorption of glycine and glucose in the human jejunum  COOK, G.C.  525-534
Acetohydroxamic acid, effect of, on intestinal ammonia in uraemia  SWALES, J.D., TANGE, J.D. & EVANS, D.J.  105-112
Acidaemia, acute, assessment of, from carbon dioxide titration curves  STOKER, J.B., KAPPAGODA, C.T., GRIMSHAW, V.A. & LINDEN, R.J.  455-463
Adenocarcinomata, gastric, human, proteinases of  ETHERINGTON, D.J. & TAYLOR, W.H.  79-90
Age, effect of, on vascular response to hypoxaemia  KRAVEC, T.F., EGGERS, G.W.N., JR & KETTEL, L.J.  555-565
Age, relation of oxygen-transporting system to  DAVIES, C.T.M.  1-13
Ageing, and respiratory function values  MILNE, J.S. & WILLIAMSON, J.  371-381
Ageing, physiological, and decrease of maximum oxygen uptake and work capacity  ADAMS, W.C., McHENRY, M.M. & BERNAUER, E.M.  355-370
Airways disease, peripheral, and peripheral airways resistance, static recoil and forced expiratory volume  CAYTON, R.M. & HOWARD, P.  505-514
Airways obstruction, reversibility of, in chronic bronchitis  ASTIN, T.W.  725-733
Airways resistance, peripheral, and static recoil and forced expiratory volume  CAYTON, R.M. & HOWARD, P.  505-514
Alcohol dehydrogenase, activity of, in the subclinically scorbutic guinea-pig  O'KEANE, M., MOORE, M.R. & GOLDBERG, A.  781-784
Aldosterone, and reabsorption of sodium in the proximal renal tubule  GILL, J.R., JR, DELA, C.S. & BARTTER, F.C.  423-432
Aldosterone, effects of sodium loading and deprivation on, in hypertension  COGLAN, J.P., DOYLE, A.E., JERUMS, G. & SCOGGINS, B.A.  15-23
Aldosterone, role of angiotensin II in the control of, in man  BOYD, G.W., ADAMSON, A.R., ARNOLD, M., JAMES, V.H.T. & PEART, W.S.  91-104
Amino acids, metabolism of, and malnourishment, in children  READ, W.W.C., McLAREN, D.S. & TCHALIAN, M.  139-143
Ammonia, effects of, in uraemia  SWALES, J.D., TANGE, J.D. & EVANS, D.J.  105-112
Ammonia anologues, mechanisms of excretion of, in the rat  BOURKE, E., ASATOOR, A.M. & MILNE, M.D.  635-642
Anaemia, iron-deficiency, effect of, on transfer factor for the lung and ventilation and cardiac frequency during sub-maximal exercise  COTES, J.E., DABBS, J.M., ELWOOD, P.C., HALL, A.M., MCDONALD, A. & SAUNDERS, M.J.  325-335
Subject index

Angiotensin II, effect of infusion of, on blood pressure  CHINN, R.H. & DÜSTERDIECK, G. 489–504
Angiotensin II, role of, in the control of aldosterone in man  BOYD, G.W., ADAMSON, A.R., ARNOLD, M., JAMES, V.H.T. & PEART, W.S.  91–104
Antidiuresis, action of diazoxide on  POHL, J.E.F., THURSTON, H. & SWALES, J.D.  145–152
Arterial pH, effects of acutely induced changes of, on pulmonary vascular resistance during normoxia and hypoxia in awake dogs  THILENIUS, O.G. & DERENZO, C.  277–287
Arteries, vasoconstrictor responses of, to noradrenaline, histamine and electrical stimulation in the presence of an increased concentration of Na⁺  HARRIS, G.S. & PALMER, W.A.  301–309
Arthritis, clinical studies of, in small joints, by technetium uptake  DICK, W.C., COLLINS, K.E. & BUCHANAN, W.W.  383–393
Aspirin, effect of, on rheumatoid arthritis  DICK, W.C., COLLINS, K.E. & BUCHANAN, W.W.  383–393
Atropine, effect of, on airways resistance  ASTIN, T.W.  725–733
Bone, turnover of, and soft-tissue calcification, effect of phosphate supplements on  JOWSEY, J. & BALASUBRAMANIAM, P.  289–299
Bone dimensions, influence of numerous pregnancies and lactations on  WALKER, A.R.P., RICHARDSON, B. & WALKER, F.  189–196
Breathing patterns, and regional ventilation distribution in tetraplegic patients and in normal subjects  BAKE, B., FUGL-MEYER, A.R. & GRIMBY, G.  117–128
Bronchitis, chronic, and reversibility of airways obstruction  ASTIN, T.W.  725–733
Buffering, intracellular, effect of carbon dioxide tension on  GAMBLE, J.L., JR, ZUROMSKIS, P.J., BETTICE, J.A. & GINSBERG, R.L.  311–324
Calcification, effect of phosphate supplements on soft tissue, and bone turnover  JOWSEY, J. & BALASUBRAMANIAM, P.  289–299

Blood flow, cerebral and peripheral, and metabolism in dogs before and after acute portacaval shunting  JAMES, I.M., MACDONELL, L. & XANALATOS, C.  769–774
Blood flow in the finger, total and nutritional  COFFMAN, J.D.  243–250
Blood pressure, response of, to infusion of angiotensin II  CHINN, R.H. & DÜSTERDIECK, G.  489–504
Blood volume expansion, excretion of water and sodium during  LICHARDUS, B. & NIZET, A.  701–709
Bone, turnover of, and soft-tissue calcification, effect of phosphate supplements on  JOWSEY, J. & BALASUBRAMANIAM, P.  289–299
Bone dimensions, influence of numerous pregnancies and lactations on  WALKER, A.R.P., RICHARDSON, B. & WALKER, F.  189–196
Breathing patterns, and regional ventilation distribution in tetraplegic patients and in normal subjects  BAKE, B., FUGL-MEYER, A.R. & GRIMBY, G.  117–128
Bronchitis, chronic, and reversibility of airways obstruction  ASTIN, T.W.  725–733
Buffering, intracellular, effect of carbon dioxide tension on  GAMBLE, J.L., JR, ZUROMSKIS, P.J., BETTICE, J.A. & GINSBERG, R.L.  311–324
Calcification, effect of phosphate supplements on soft tissue, and bone turnover  JOWSEY, J. & BALASUBRAMANIAM, P.  289–299
Calcitonin, lack of effect of, on parathyroid hormone-induced skeletal uptake of calcium in rats ROBINSON, C.J., RAFFERTY, B. & PARSONS, J.A. 235–241
Calcitonins, effect of, on electrolyte excretion in the rat WILLIAMS, C.C., MATTHEWS, E.W., MOSELEY, J.M. & MACINTYRE, I. 129–137
Calcium flux, effect of digoxin on, in the forearm of man OGILVIE, R.I. & KLASSEN, G.A. 567–577
Calcium intake, and bone dimensions, in Bantu mothers WALKER, A.R.P., RICHARDSON, B. & WALKER, F. 189–196
Carbon dioxide pressure, arterial, effect of, on response of cerebral and hind-limb blood flow to isoprenaline XANALATOS, C. & JAMES, I.M. 63–68
Carbon dioxide tension, effect of, on intracellular buffering in the dog GAMBLE, J.L., JR, ZUROMSKIS, P.J., BETTICE, J.A. & GINSBERG, R.L. 311–324
Carbon dioxide tension, mixed venous, an evaluation of rebreathing methods for measurement of, during exercise GODFREY, S. & WOLF, E. 345–353
Carbon dioxide titration curves and assessment of acute acidaemia in man STOKER, J.B., KAPPAGODA, C.T., GRIMSHAW, V.A. & LINDEN, R.J. 455–463
Carbon monoxide, effect of, on sensory psychomotor response in hypoxaemic subjects RAMSEY, J.M. 619–625
Cardiac frequency, effect of iron-deficiency anaemia on, during sub-maximal exercise COTES, J.E., DABBS, J.M., ELWOOD, P.C., HALL, A.M., MCDONALD, A. & SAUNDERS, M.J. 325–335
Catecholamines, orthostatic changes of plasma concentrations of, in hypertension MOLZAHN, M., DISSMAN, TH., HALIM, S., LOHMANN, F.W. & OELKERS, W. 209–222
Chemoreceptors, arterial, and effects of lobeline and phenyldiguanide JAIN, S.K., SUBRAMANIAM, S., JULKA, D.B. & GUZ, A. 163–177
Coeliac disease, adult, jejunal absorption of water and electrolytes in RUSSELL, R.I., ALLAN, J.G., GERSKOWITCH, V.P. & ROBERTSON, J.W.K. 735–741
Contraceptives, oestrogen-containing oral, effect of on tryptophan metabolism and vitamin B6 requirements ROSE, D.P., STRONG, R., ADAMS, P.W. & HARDING, P.E. 465–477
Contraceptives, oral, and folate metabolism STEPHENS, M.E.M., CRAFT, I., PETERS, T.J. & HOFFBRAND, A.V. 405–414
Deoxycorticosterone, effect of, on reabsorption of sodium in the proximal renal tubule GILL, J.R., JR, DELEA, C.S. & BARTER, F.C. 423–432
Deoxycorticosterone acetate administration, association of humoral sodium transport inhibitory activity with renal escape from BUCKALEW, V.M., JR & LANCASTER, C.D., JR 69–78
Subject index

Diazoxide, antidiuretic action of POHL, J.E.F., THURSTON, H. & SWALES, J.D. 145–152
Digoxin, effect of, on glucose metabolism and calcium flux in the forearm of man OGILVIE, R.I. & KLASSEN, G.A. 567–577
Diurnal rhythm of calcium excretion, effect of bedrest on MOORE EDE, M.C., FAULKNER, M.H. & TREDRE, B.E. 433–445
Encephalopathy, causation of, after portacaval shunting JAMES, I.M., MACDONELL, L. & XANALATOS, C. 769–774
Erythrocytes, potassium content of, and potassium depletion in the rabbit PATRICK, J. & BRADFORD, B. 415–421
Erythrocytes, sodium and potassium content of SMITH, E.K.M. 447–453
Ethanol, metabolism of, in the subclinically scorbutic guinea-pig O'KEANE, M., MOORE, M.R. & GOLDBERG, A. 781–784
Excretion of ammonia analogues in the rat BOURKE, E., ASATOOR, A.M. & MILNE, M.D. 635–642
Excretion of electrolytes, effect of calcitonins on WILLIAMS, C.C., MATTHEWS, E.W., MOSELEY, J.M. & MACINTYRE, I. 129–137
Exercise, an evaluation of rebreathing methods for measurement of mixed venous carbon dioxide tension during GODFREY, S. & WOLF, E. 345–353
Exercise, sub-maximal, effect of iron-deficiency anaemia on transfer factor for the lung and ventilation and cardiac frequency during COTES, J.E., DABBS, J.M., ELWOOD, P.C., HALL, A.M., MCDONALD, A. & SAUNDERS, M.J. 325–335
Expiratory volume, forced, and peripheral airways resistance and static recoil CAYTON, R.M. & HOWARD, P. 505–514
Fluoride, body distribution in man HOSKING, D.J. & CHAMBERLAIN, M.J. 153–161
Folates, metabolism of, and oral contraceptives STEPHENS, M.E.M., CRAFT, I., PETERS, T.J. & HOFFBRAND, A.V. 405–414
Glucose absorption, effect of glycine on, in the human jejunum COOK, G.C. 525–534
Glucose metabolism, effect of digoxin on, in the forearm of man OGILVIE, R.I. & KLASSEN, G.A. 567–577
Glycine absorption, effect of glucose on, in the human jejunum COOK, G.C. 525–534

Haemodialysis, effect of, on content and distribution of exchangeable potassium Rettori, V., Gral, T., Massry, S.G. & Villamil, M.F. 673–684

Haemodynamics, orthostatic changes of, in hypertension Molzahn, M., Dissman, Th., Halim, S., Lohmann, F.W. & Oelkers, W. 209–222

Haemodynamics and respiratory function in patients with myocardial infarction and left ventricular failure Tattersfield, A.E., McNicol, M.W. & Sillert, R.W. 751–768

Haemolysis, intravascular, and urinary iron losses after replacement of heart valves by a prosthesis Slater, S.D. & Fell, G.S. 545–553

Haemorrhage, subarachnoid, electrolyte changes in James, I.M. 179–187

Haemosiderinuria, and intravascular haemolysis after replacement of heart valves with a prosthesis Slater, S.D. & Fell, G.S. 545–553


Heart valves, artificial, and haemolysis and urinary iron Slater, S.D. & Fell, G.S. 545–553

Hepatitis, active chronic, metabolic changes in Alberti, K.G.M.M., Record, C.O., Williamson, D.H. & Wright, R. 591–605

Humoral sodium transport inhibitory activity, association of, with renal escape from mineralocorticoid administration Buckalew, V.M., Jr & Lancaster, C.D., Jr 69–78


Hypertension, arterial, after constriction of the renal artery in conscious and anaesthetized dogs Bianchi, G., Baldoni, E., Luca, R. & Barbin, P. 651–664


Hypertension, effects of sodium loading and deprivation on renin and aldosterone in Coghan, J.P., Doyle, A.E., Jerums, G. & Scoggins, B.A. 15–23


Hypertension, orthostatic changes of haemodynamics, renal function, plasma catecholamines and plasma renin concentrations in Molzahn, M., Dissman, Th., Halim, S., Lohmann, F.W. & Oelkers, W. 209–222


Hypoxaemia, effect of, on vascular response, and patient age Kravec, T.F., Eggers, G.W.N., Jr & Kettel, L.J. 555–565

Hypoxaemia, effect of carbon monoxide on sensory psychomotor response during Ramsey, J.M. 619–625

Subject index

Hypoxia, effects of acutely induced changes in arterial pH on pulmonary vascular resistance during  Thilenius, O.G. & Derenzo, C.  277–287

Intestine, concentration of ammonia in, during uraemia and administration of acetohydroxamic acid  Swales, J.D., Tange, J.D. & Evans, D.J.  105–112
Iron, loss of, in urine after replacement of heart valves with a prosthesis  Slater, S.D. & Fell, G.S.  545–553
Isoprenaline, effect of, on airways resistance  Astin, T.W.  725–733
Isoprenaline, response of blood flow and metabolism to infusion of and effect of arterial carbon dioxide pressure on  Xanalatos, C. & James, I.M.  63–68
Jejunum, human, absorption of glycine and glucose in  Cook, G.C.  525–534
Jejunum, transport of water and electrolytes across, in adult coeliac disease  Russell, R.I., Allan, J.G., Gerskowitch, V.P. & Robertson, J.W.K.  735–741
Lactation, bone dimensions and calcium intake during, in Bantu mothers  Walker, A.R.P., Richardson, B. & Walker, F.  189–196
Leucocyte extracellular space, measurement of, in an in vitro system  Patrick, J. & Hilton, P.J.  647–649
Leucocytes, potassium content of, and potassium depletion in the rabbit  Patrick, J. & Bradford, B.  415–421
Lobeline, respiratory and circulatory effects of  Jain, S.K., Subramanian, S., Julka, D.B. & Guz, A.  163–177
Lung inflammation, role of pulmonary vagal afferent nerve fibres in the development of rapid shallow breathing in  Trenchard, D., Gardner, D. & Guz, A.  251–263
Malnourishment, in children, and nitrogen excretion  Read, W.W.C., McLaren, D.S. & Tchalian, M.  139–143
Marasmus, in children, and nitrogen excretion  Read, W.W.C., McLaren, D.S. & Tchalian, M.  139–143
Subject index

Metabolism, cerebral and peripheral, of glucose and oxygen in dogs before and after acute portacaval shunting  JAMES, I.M., MACDONELL, L. & XANALATOS, C.  769–774  
Mineralocorticoid administration, association of humoral sodium transport inhibitory activity with renal escape from  BUCKALEW, V.M., JR & LANCASTER, C.D., JR  69–78  
Myocardial infarction, haemodynamic and respiratory function in  TATTERSFIELD, A.E., MCNICOL, M.W. & SILLETT, R.W.  751–768

Natriuretic hormone, in urine, and sodium and potassium transport in the renal tubule  CLARKSON, E.M. & DE WARDENER, H.E.  607–617
Nephritis, immune complex, effect of, on rat serum proteins  HORNE, C.H.W. & TONER, P.G.  743–749
Nitrogen, excretion of, in malnourished and recovered children  READ, W.W.C., McLAREN, D.S. & TCHALIAN, M.  139–143
Noradrenaline, effect of, on total and nutritional blood flow in the finger  COFFMAN, J.D.  243–250

Osteoarthritis, technetium uptake in  DICK, W.C., COLLINS, K.E. & BUCHANAN, W.W.  383–393
Osteoporosis, possible treatment of, with calcitonin and another agent  ROBINSON, C.J., RAFFERTY, B. & PARSONS, J.A.  235–241
Ouabain, effect of, on insulin secretion in man  SAXTON, C., MAJID, P.A., CLOUGH, G. & TAYLOR, S.H.  57–62
Oxygen-transporting system in relation to age  DAVIES, C.T.M.  1–13
Oxygen uptake, maximum decrease of, with advancing age  ADAMS, W.C., McHENRY, M.M. & BERNAUER, E.M.  355–370

Parathyroid hormone, concentrations of, in nutritional rickets  JOFFE, B.I., HACKENG, W. H.L., SEFTEL, H.C. & HARTDEGEN, R.C.  113–116
Parathyroid hormone, effect of, in combination with calcitonin, on skeletal uptake of calcium in rats  ROBINSON, C.J., RAFFERTY, B. & PARSONS, J.A.  235–241
Phenyldiguanide, respiratory and circulatory effects of  JAIN, S.K., SUBRAMANIAN, S., JULKA, D.B. & GUZ, A.  163–177
Subject index

Phosphate, effect of, on soft-tissue calcification and bone turnover  JOWSEY, J. & BALASUBRAMANIAM, P.  289–299

Plasma, relationship between angiotensin II and aldosterone in, during sodium deficiency BOYD, G.W., ADAMSON, A.R., ARNOLD, M., JAMES, V.H.T. & PEARL, W.S.  91–104

Pollen, ragweed, morphological changes of, on incubation with saliva from various humans MAYRON, L.W. & LOISELLE, R.J.  25–33

Portacaval shunting, effect of, on cerebral and peripheral blood flow and metabolism in dogs JAMES, I.M., MACDONELL, L. & XANALATOS, C.  769–774

Potassium, content of, in erythrocytes SMITH, E.K.M.  447–453

Potassium, exchangeable, content and distribution of, in normal subjects and patients on chronic haemodialysis RETTORI, V., GRAL, T., MASSY, S.G. & VILLAMIL, M.F.  673–684

Potassium balance, in subarachnoid haemorrhage JAMES, I.M.  179–187

Potassium depletion in the rabbit, and leucocyte potassium content PATRICK, J. & BRADFORD, B.  415–421

Pregnancy, bone dimensions and calcium intake during, in Bantu mothers WALKER, A.R.P., RICHARDSON, B. & WALKER, F.  189–196


Psoriatic arthritis, technetium uptake in DICK, W.C., COLLINS, K.E. & BUCHANAN, W.W.  383–393

Pteroylglutamates, metabolism of, and oral contraceptives STEPHENS, M.E.M., CRAFT, I., PETERS, T.J. & HOFFBRAND, A.V.  405–414

Pulmonary vascular resistance, effects of acutely induced changes of arterial pH on, during normoxia and hypoxia in awake dogs THILEMUS, O.G. & DERENZO, C.  277–287

Ragweed pollen, morphological changes of, on incubation with saliva from various humans MAYRON, L.W. & LOISELLE, R.J.  25–33

Reactivity, arterial, effect of sodium ion on HARRIS, G.S. & PALMER, W.A.  301–309

Redox ratio, and metabolism of ethanol in the subclinically scorbutic guinea-pig O'KEANE, M., MOORE, M.R. & GOLDBERG, A.  781–784

Reflex stimulation, effect of, on total and nutritional blood flow in the finger COFFMAN, J.D.  243–250

Renal artery constriction, effect of renin infusion after, in conscious and anaesthetized dogs BIANCHI, G., BALDONI, E., LUCCA, R. & BARBIN, P.  651–664


Renal calculi, and self-medication with vitamin D TAYLOR, W.H.  515–522
Subject index


Renal function, orthostatic changes of, in hypertension MOLZAHN, M., DISSMAN, TH., HALIM, S., LOHMANN, F.W. & OELKERS, W. 209-222

Renal tubule fragments, inhibition of sodium and potassium transport in, by urine extracts obtained from salt-loaded individuals CLARKSON, E.M. & DE WARDENER, H.E. 607-617

Renin, concentration of, and blood pressure response to angiotensin II infusion CHINN, R.H. & DÜSTERDIECK, G. 489-504


Renin, effect of infusion, after constriction of the renal artery in conscious and anaesthetized dogs BIANCHI, G., BALDONI, E., LUCCA, R. & BARBIN, P. 651-664

Renin, orthostatic changes of plasma concentration of, in hypertension MOLZAHN, M., DISSMAN, TH., HALIM, S., LOHMANN, F.W. & OELKERS, W. 209-222


Respiratory function, and haemodynamics in patients with myocardial infarction and left ventricular failure TATTERSFIELD, A.E., MCNICOL, M.W. & SILLETT, R.W. 751-768

Respiratory function, tests of, in older people MILNE, J.S. & WILLIAMSON, J. 371-381

Rheumatoid arthritis, effect of aspirin on, studied by technetium uptake DICK, W.C., COLLINS, K.E. & BUCHANAN, W.W. 383-393

Rickets, nutritional, concentration of parathyroid hormone in JOFFE, B.I., HACKENG, W.H.L., SEFTEL, H.C. & HARTDEGEN, R.G. 113-116

Self-medication with vitamin D, and renal calculi TAYLOR, W.H. 515-522

Sensory psychomotor response, effect of carbon monoxide on, in hypoxaemic subjects RAMSEY, J.M. 619-625

Serum proteins, effect of immune complex nephritis on HORNE, C.H.W. & TONER, P.G. 743-749

Sodium, content of, in erythrocytes SMITH, E.K.M. 447-453

Sodium, effect of deoxycorticosterone and spironolactone on the reabsorption of, in the proximal renal tubule GILL, J.R., JR, DELEA, C.S. & BARTTER, F.C. 423-432

Sodium, effects of loading and deprivation, on plasma renin and aldosterone in hypertension COGHLAN, J.P., DOYLE, A.E., JERUMS, G. & SCOGGINS, B.A. 15-23

Sodium balance, in subarachnoid haemorrhage JAMES, I.M. 179-187

Sodium deficiency, relationship between plasma angiotensin II and aldosterone during BOYD, G.W., ADAMSON, A.R., ARNOLD, M., JAMES, V.H.T. & PEART, W.S. 91-104

Sodium excretion, during blood volume expansion LICHARDUS, B. & NIZET, A. 701-709
Subject index

Sodium excretion, effect of diazoxide on Pohl, J.E.F., Thurston, H. & Swales, J.D. 145–152
Sodium ion, effect of, on arterial sodium and reactivity Harris, G.S. & Palmer, W.A. 301–309
Sodium pump and erythrocyte sodium Smith, E.K.M. 447–453
Spironolactone, effect of, on reabsorption of sodium in the proximal renal tubule Gill, J.R., Jr, Delea, C.S. & Bartter, F.C. 423–432

Tachypnoea, development of, in lung inflammation and role of pulmonary vagal afferent nerve fibres Trenchard, D., Gardner, D. & Guz, A. 251–263
Tetraplegic patients, breathing patterns and regional ventilation distribution in Bake, B., Fugl-Meyer, A.R. & Grimby, G. 117–128
Transport of sodium and potassium in renal tubule fragments, inhibition of, by urine extracts obtained from salt-loaded individuals Clarkson, E.M. & de Wardener, H.E. 607–617

Uraemia, depletion of potassium in patients with Rettori, V., Gral, T., Massry, S.G. & Villamil, M.F. 673–684
Uraemia, effects of intestinal ammonia in Swales, J.D., Tange, J.D. & Evans, D.J. 105–112
Urease inhibitor, effect of, on intestinal ammonia in uraemia Swales, J.D., Tange, J.D. & Evans, D.J. 105–112

Vagus nerve, role of, in development of rapid shallow breathing in lung inflammation Trenchard, D., Gardner, D. & Guz, A. 251–263
Vascular resistance, pulmonary, effects of acutely induced changes of arterial pH on, during normoxia and hypoxia in awake dogs Thilenius, O.G. & Derenzo, C. 277–287
Vascular response to hypoxaemia, and patient age  KRAVEC, T.F., EGGERS, G.W.N., Jr & KETTEL, L.J.  555–565
Vasodilatation, renal, site of action in the nephron  MASSRY, S.G. & AHUMADA, J.J.  535–543
Ventilation distribution, regional, and breathing patterns, in tetraplegic patients and in normal subjects  BAKE, B., FUGL-MEYER, A.B. & GRIMBY, G.  117–128
Ventricular failure, left, haemodynamic and respiratory function in  TATTERSFIELD, A.E., MCNICOL, M.W. & SILLETT, R.W.  751–768
Vitamin D, effect of, on concentrations of parathyroid hormone in nutritional rickets  JOFFE, B.I., HACKENG, W.H.I., SEFTEL, H.C. & HARTDEGEN, R.G.  113–116
Vitamin D, self-medication with, and renal calculi  TAYLOR, W.H.  515–522
Water excretion during blood volume expansion  LICHARDUS, B. & NIZET, A.  701–709
Work capacity, decrease of, with advancing age  ADAMS, W.C., MCHENRY, M.M. & BERNAUER, E.M.  355–370