

Contents

No 1 JANUARY 1989

Occasional articles

Leader: United Kingdom external quality assessment in blood coagulation: the first 21 years	L POLLER	1
Statistics on microcomputers. 4 Correlation and regression	RA BROWN, J SWANSON BECK	4

Papers

Death certification: increased clinical confidence in diagnosis and lack of interest in confirmation by necropsy is not justified	BARBARA KARWINSKI, FLORA HARTVEIT	13
Fatal head injury in children	DI GRAHAM, I FORD, J HUME ADAMS, <i>et al.</i>	18
Fine needle aspiration of thyroid nodules: three years' experience	CH KENDALL	23
Semiquantitative analyses of fine needle aspirates from benign and malignant breast lesions	J ST J THOMAS, EA MALLON, WD GEORGE	28
Proliferative activity in endometrial stromal granulocytes throughout menstrual cycle and early pregnancy	D PACE, L MORRISON, JN BULMER	35
Serum placental-like alkaline phosphatase (PLAP): a novel combined enzyme linked immunoassay for monitoring ovarian cancer	J FISKEN, RCF LEONARD, G SHAW, <i>et al.</i>	40
Papillomavirus and <i>c-myc</i> antigen expression in normal and neoplastic cervical epithelium	RHONA G HUGHES, WA NEILL, MARY NORVAL	46
<i>N-myc</i> gene product expression in neuroblastoma	H HASHIMOTO, Y DAIMARU, M ENJOI, <i>et al.</i>	52
Primary acquired sideroblastic erythropoiesis in non-anaemic and minimally anaemic subjects	DT BOWEN, A JACOBS	56
Renal impairment in myeloma: negative association with isoelectric point of excreted Bence-Jones protein	AGW NORDEN, FV FLYNN, LM FULCHER, <i>et al.</i>	59
Acute phase response in cerebral infarction	J SYRJÄNEN, A-M TEPPPO, VV VALTONEN, <i>et al.</i>	63
Circulating immune complexes after splenectomy	EA DONADI, IF CARVALHO, RP FALCÃO	69
Class specific antibody response to gonococcal infection	A MIETTINEN, KATI HAKKARAINEN, P GRÖNROOS, <i>et al.</i>	72
Tolerance to penicillin in streptococci of viridans group	LISA POWLEY, JULIE MEESON, D GREENWOOD	77
Lack of association between cytomegalovirus infection of heart and rejection-like inflammation	PGI STOVIN, TG WREGHITT, TAH ENGLISH, <i>et al.</i>	81

Laboratory techniques

ACP Broadsheet 120: Guide to diagnosis of inborn errors of metabolism in district general hospitals	ANNE GREEN	84
Effect of international sensitivity index (ISI) of thromboplastins on precision of international normalised ratios (INR)	DA TABERNER, L POLLER, JM THOMSON, <i>et al.</i>	92
Effect of automation on prothrombin time test in NEQAS surveys	L POLLER, JM THOMSON, DA TABERNER	97
Use of microwave oven improves morphology and staining of cryostat sections	A KENNEDY, AK FOULIS	101
Automation of APAAP immunocytochemical technique	WP STROSS, M JONES, DY MASON	106
Letters to the Editor		113

No 2 FEBRUARY 1989

Occasional article

Statistics on microcomputers. A non-algebraic guide to the appropriate use of statistics packages in biomedical research and pathology laboratory practice. 5 Analysis of categorical data	RA BROWN, J SWANSON BECK	117
--	--------------------------	-----

Papers

Aspergillosis of the nose and paranasal sinuses	CM MILROY, JD BLANSHARD, S LUCAS, <i>et al.</i>	123
Implausibility of an aetiological association between cytomegalovirus and Kaposi's sarcoma shown by four techniques	F VAN DEN BERG, MARGUERITE SCHIPPER, M JIWA, <i>et al.</i>	128
Campylobacter-like organisms and heterotopic gastric mucosa in Meckel's diverticula	GABRIELLE A DE COTHI, KM NEWBOLD, HJ O'CONNOR	132
Comparison of clinical and postmortem diagnosis of pulmonary embolism	B KARWINSKI, E SVENDSEN	135
The binding of peroxidase-labelled lectins to human endometrium in normal cyclical endometrium and endometrial adenocarcinoma	KP WEST, JANET L COPE	140
<i>c-myc</i> Oncogene product P62 ^{c-myc} in ovarian mucinous neoplasms: immunohistochemical study correlated with malignancy	SV POLACARZ, NA HEY, TJ STEPHENSON, <i>et al.</i>	148
Diagnosis of progressive multifocal leucoencephalopathy by hybridisation techniques	RH BOERMAN, EPJ ARNOLDUS, AK RAAP, <i>et al.</i>	153
Association between invasiveness, inflammatory reaction, desmoplasia and survival in colorectal cancer	TB HALVORSEN, EVA SEIM	162
Pseudothrombocytopenia, hypercholesterolaemia, and primary biliary cirrhosis	PE HICKMAN, KP DWYER, JRL MASAREI	167
Diurnal variations in serum biochemical and haematological measurements	SJ POCOCK, D ASHBY, AG SHAPER, <i>et al.</i>	172
Quantitation of lactoferrin in odontogenic cyst fluids	CWI DOUGLAS, GT CRAIG	180
Histometric studies on cellular infiltrates of tuberculin tests in patients with haemophilia	JG LOWE, J SWANSON BECK, R MADHOK, <i>et al.</i>	184
Granulocytic sarcoma: misleading immunohistological staining with MT1 and S100 protein antibodies	CJ ELLIOTT, KP MCCARTHY, RL CARTER, <i>et al.</i>	188

Laboratory techniques

Annotation: Diagnosis of toxoplasmosis	G FLECK	191
Toxoplasmosis in heart and heart and lung transplant recipients	TG WREGHITT, M HAKIM, JJ GRAY, <i>et al.</i>	194
Discrepant toxoplasma latex agglutination test results	RE HOLLIMAN, JULIE JOHNSON, KIM DUFFY, <i>et al.</i>	200

	Page
False positive latex tests negative by ELISA for toxoplasma IgG	204
Biotin-labelled antigen screening test for toxoplasma IgM antibody	206
Intrinsic factor antibody tests	210
Comparison of two bone trephine instruments used for quantitative histomorphometry	213
Letters to the Editor	216
Matters arising, Book review, and Notices	219

No 3 MARCH 1989

Occasional article

Statistics on microcomputers. 6 Statistical methods for diagnostic tests	225
--	-----

Papers

Observer variability in histopathological reporting of cervical biopsy specimens	231
Signet ring cell lymphoma of T cell type	239
Bulky extramedullary plasmacytomata: rare mode of relapse in myelomatosis	246
Clinical importance of squamous metaplasia in invasive transitional cell carcinoma of the bladder	250
Clinical importance of DNA content in rectal cancer measured by flow cytometry	254
Reproducibility of flow cytometric assessment of follicular tumours of the thyroid	260
Morphometric analysis of suprabasal cells in oral white lesions	264
Association between CAM 5-2 and anti-CD1a reactivity in lymph nodes and gastrointestinal tract epithelium	271
Jejunal enteropathy associated with human immunodeficiency virus infection: quantitative histology	275
Patterns of antigenaemia and antibody response in patients infected with human immunodeficiency virus (HIV) according to clinical state	282
Distribution of HBCAg in hepatitis B detected by immunoperoxidase staining with three different preparations of anti-HBc antibodies	284
Construction of a database to identify <i>Staphylococcus</i> species	289
Correlations between serum proteins modified by acetaldehyde and biochemical variables in heavy drinkers	295

Laboratory techniques

Plastic embedded core biopsy: a complementary approach to bone marrow aspiration for diagnosing acute myeloid leukaemia	300
New enzyme immunoassay for detecting total, type I, and type II intrinsic factor antibodies	307
Evaluation of sealed vacuum extraction method (Seditainer) for measurement of erythrocyte sedimentation rate	313
Use of betapropiolactone to disinfect fresh tissue without impairing antigenicity: method applicable to human immunodeficiency virus (HIV) positive tissue	318
Microassay for prostatic androgen receptors correlated with quantitative histological assessment	322

Letters to the Editor

Matters arising	329
Book reviews and Notices	332

No 4 APRIL 1989

Occasional article

A mutational theory of leukaemogenesis	337
Percutaneous fine needle aspiration cytology of the pancreas: advantages and pitfalls	341
Gastric metaplasia and <i>Campylobacter pylori</i> infection of duodenum in patients with chronic renal failure	348
Ultrastructural study of two subtypes of gastric adenoma	352
Massive haemorrhagic necrosis of the liver after liver transplantation	360
Mucosal argyrophil endocrine cells in pernicious anaemia and upper gastrointestinal carcinoid tumours	371
Histopathological assessment of bleeding from polyps of the colon and rectum	378
Atypical hyperplasia in prostates of 20 to 40 year old men	383
Histopathology of breast cancer in young women in relation to use of oral contraceptives	387
Bone histology in young adult osteoporosis	391
Aberrant phenotypes in peripheral T cell lymphomas	398
Peripheral T cell lymphoma: value of bone marrow trephine immunophenotyping	403
Outer membrane protein and biotype analysis of non-serotypable strains of <i>Haemophilus influenzae</i>	409
Laboratory techniques	
KPI: a new monoclonal antibody that detects a monocyte/macrophage associated antigen in routinely processed tissue sections	414
Monoclonal antibodies for detecting bone marrow invasion by neuroblastoma	422
Cell suspensions from collagenase digestion of bone marrow trephine biopsy specimens	427
Giemsa staining for cysts and trophozoites of <i>Pneumocystis carinii</i>	432

Contents

	Page
New direct method for measuring red cell lithium AM SUMMERTON, NS HARVEY, ARW FORREST	435
Letters to the Editor	438
Matters arising, Book reviews, and Notices	442
No 5 MAY 1989	
Occasional articles	
Review: Use of basement membrane markers in tumour diagnosis AJ D'ARDENNE	449
Early clinical pathologists: Thomas Waterhouse (1793-1830) HT SWAN	458
Papers	
Aural polyps as predictors of underlying cholesteatoma CM MILROY, RWT SLACK, AR MAW, <i>et al</i>	460
Sclerosing cholangitis with hepatic microvesicular steatosis in cystic fibrosis and chronic pancreatitis I BENETT, B SALH, NY HABOUBI, <i>et al</i>	466
Characterisation of adenoid cystic carcinoma of the breast by immunohistology W DÛE, H HERBST, V LOY, <i>et al</i>	470
Immunocytochemical features of obstructed saphenous vein coronary artery bypass grafts JI BRODY, NANCY J PICKERING, GB FINK	477
Granulocytic sarcoma of the cervix: an immunohistochemical, histochemical, and ultrastructural study S BANIK, A BORG GRECH, BP EYDEN	483
Whole blood procoagulant activity in breast and colorectal cancer HELEN MELLOR, I TAYLOR, S ROATH, <i>et al</i>	489
Familial occurrence of the antiphospholipid syndrome F MATTHEY, K WALSHE, IJ MACKIE, <i>et al</i>	495
DNA index and karyotype analysis in myelodysplasia TG HOY, AD GEDDES, A JACOBS	498
Association of oral candidiasis with diabetic control LVH HILL, MH TAN, LH PEREIRA, <i>et al</i>	502
Hyaluronidase production in <i>Streptococcus milleri</i> in relation to infection PF UNSWORTH	506
Typing of <i>Clostridium difficile</i> causing diarrhoea in an orthopaedic ward I MCKAY, JE COIA, IR POXTON	511
Histamine synthesis by respiratory tract micro-organisms: possible role in pathogenicity JL DEVALIA, D GRADY, Y HARMANYERI, <i>et al</i>	516
Abstract: Association of Clinical Pathologists Research Award 1988 KM NEWBOLD	523
Laboratory techniques	
Detection of parvovirus B19 DNA in fetal tissues by in situ hybridisation and polymerase chain reaction MMM SALIMANS, FM VAN DE RIJKE, AK RAAP, <i>et al</i>	525
Mycology quality assessment: United Kingdom national scheme SF PERRY, CK CAMPBELL, JJS SNELL	531
Direct agglutination test and other assays for measuring antibodies to <i>Toxoplasma gondii</i> JULIE JOHNSON, KIM DUFFY, LINDA NEW, <i>et al</i>	536
Development of a radioimmunoassay for measuring gonadotrophin releasing hormone in patients receiving treatment VA MOBSBY, ML KNAPP, RS FINK, <i>et al</i>	542
Evaluation of API 20 STREP system for identifying <i>Listeria</i> species AP MACGOWAN, RJ MARSHALL, DS REEVES	548
Rapid immunoperoxidase staining of axons for frozen section diagnosis of nerve biopsy specimens GS DAVIDSON, KPC SO	551
Letters to the Editor	555
Matters arising, Book reviews, and Notices	557
No 6 JUNE 1989	
Occasional articles	
Laboratory accreditation and audit in pathology VARIOUS AUTHORS	561
Proposals for the classification of chronic (mature) B and T lymphoid leukaemias JM BENNETT, D CATOVSKY, M-T DANIEL, <i>et al</i>	567
Papers	
New spiral bacterium in gastric mucosa CLIODNA AM MCNULTY, JULIE C DENT, A CURRY, <i>et al</i>	585
Interphase cytogenetics using biotin and digoxigenin labelled probes I: relative sensitivity of both reporter molecules for detection of HPV16 in CaSki cells CS HERRINGTON, J BURNS, AK GRAHAM, <i>et al</i>	592
Interphase cytogenetics using biotin and digoxigenin labelled probes II: simultaneous differential detection of human and papilloma virus nucleic acids in individual nuclei CS HERRINGTON, J BURNS, AK GRAHAM, <i>et al</i>	601
Morphometric diagnosis of serous effusions: refinement of differences between benign and malignant cases by use of outlying values and larger sample size N SCOTT, J SUTTON, C GRAY	607
Orientation of respiratory tract cilia in patients with primary ciliary dyskinesia, bronchiectasis, and in normal subjects R DE IONGH, J RUTLAND	613
Estimation of phenolic conjugation by colonic mucosa BS RAMAKRISHNA, D GEE, A WEISS, <i>et al</i>	620
Distribution of glutathione S-transferase isoenzymes in human kidney: basis for possible markers of renal injury DJ HARRISON, R KHARBANDA, D SCOTT CUNNINGHAM, <i>et al</i>	624
Lupus anticoagulant, anticardiolipin antibodies, and human immunodeficiency virus in haemophilia HANNAH COHEN, IJ MACKIE, N ANAGNOSTOPOULOS, <i>et al</i>	629
Laboratory techniques	
Broadsheet 121: Investigation of meningococcal disease KAV CARTWRIGHT, DM JONES	634
Evaluation of the Anoxomat: a new technique for anaerobic and microaerophilic clinical bacteriology JS BRAZIER, SA SMITH	640
Identification of <i>Pseudomonas pseudomallei</i> in clinical practice: use of simple screening tests and API 20NE DAB DANCE, V WUTHIEKANUN, P NAIGOWIT, <i>et al</i>	645
Comparison of identification of Enterobacteriaceae by API 20E and Sensititre Autoidentification System JG BARR, GM HOGG, ETM SMYTH, <i>et al</i>	649
Five commercial enzyme linked immunosorbent assay kits for toxoplasma specific IgM antibody DHM JOYNSON, RA PAYNE, AH BALFOUR, <i>et al</i>	653
Enzyme immunoassay compared with cell culture and immunofluorescence for detecting genital chlamydia G MUMTAZ, GL RIDGWAY, A NAYAGAM, <i>et al</i>	658
Fluorimetric method for simultaneous estimation of cortisol, corticosterone, and testosterone in plasma D MATTINGLY, H MARTIN, CHRISTINE TYLER	661
Letters to the Editor	667
Matters arising and Notices	670

Occasional article

The polymerase chain reaction I PEAKE 673

Papers

Infections in British clinical laboratories, 1986-87	NR GRIST, JAN EMSLIE	677
Bacteriological sampling of postmortem rooms	JR BABB, AJ HALL, R MARLIN, <i>et al</i>	682
Hepatitis B-DNA replication and histological patterns in liver biopsy specimens of chronic HBsAg positive patients with and without hepatitis delta virus superinfection	DANIELA VILLARI, G RAIMONDO, V SMEDILE, <i>et al</i>	689
Laryngeal papillomatosis: correlation between severity of disease and presence of HPV 6 and 11 detected by in situ DNA hybridisation	RE QUINEY, M WELLS, FA LEWIS, <i>et al</i>	694
Quantity of nuclear DNA in malignancies and benign lymphadenopathies associated with Epstein-Barr virus	T LEHTINEN, M LEHTINEN, R AINE, <i>et al</i>	699
Novel primary thymic defect with T lymphocytes expressing $\gamma\delta$ T cell receptor	C GEISLER, G PALLESEN, P PLATZ, <i>et al</i>	705
Creatine kinase activity in sickle cell disease	BEVERLEY J HUNT, P KORSAH, SUSAN EATON, <i>et al</i>	712
Abnormal platelet aggregation in patients with Raynaud's phenomenon	ML BIONDI, B MARASINI	716
Comparison of Western blot analysis and immunocytochemical detection of P-glycoprotein in multidrug resistant cells	ML FRIEDLANDER, DR BELL, J LEARY, <i>et al</i>	719
Evaluation of three <i>Campylobacter pylori</i> antigen preparations for screening sera from patients undergoing endoscopy	FJ BOLTON, DN HUTCHINSON	723
<i>Campylobacter pylori</i> infection in biopsy specimens of gastric antrum: laboratory diagnosis and estimation of sampling error	A MORRIS, MR ALI, PAMELA BROWN, <i>et al</i>	727
Influence of cancer histology on the success of fine needle aspiration of the breast	J LAMB, TJ ANDERSON	733
Expression of cytokeratin in the epithelium of dentigerous cysts and odontogenic keratocysts: an aid to diagnosis	AW MACDONALD, A FLETCHER	736
Comparison of intralobar non-parenchyma, subcapsular non-parenchyma, and liver capsule thickness	JW RYOO, RJ BUSCHMANN	740
Comparative study of iliac crest and proximal femur histomorphometry in normal patients	NL FAZZALARI, RJ MOORE, BA MANTHEY, <i>et al</i>	745
Laboratory techniques		
Detection of cytomegalovirus antigens and DNA in tissues fixed in formaldehyde	NM JIWA, AK RAAP, FM VAN DE RIJKE, <i>et al</i>	749
Comparison of Y1 mouse adrenal cell and coagglutination assays for detection of <i>Escherichia coli</i> heat labile enterotoxin	PA CHAPMAN, CHRISTINE M DALY	755
Improved sensitivity of an enzyme immunoassay IDEIA for detecting <i>Chlamydia trachomatis</i>	BRENDA J THOMAS, MARY F OSBORN, C GILCHRIST, <i>et al</i>	759
Efficient selection of tests for bacteriological typing schemes	MA GASTON, PR HUNTER	763
A new approach to enzyme histochemical analysis of biopsy specimens	GI MURRAY, SWB EWEN	767
Detection of important abnormalities of the differential count using the Coulter STKR blood counter	DF BARNARD, SA BARNARD, AB CARTER, <i>et al</i>	772
Letters to the Editor		777
Matters arising, Book reviews, Notices		780

Papers

Basophils in acute myeloid leukaemia	CHRISTINE F HOYLE, PD SHERRINGTON, P FISCHER, <i>et al</i>	785
Lack of significant effect of therapeutic propranolol on measurable platelet function in healthy subjects	DH PAMPHILON, RJ BOON, AG PRENTICE, <i>et al</i>	793
Chromosome 22 abnormalities in Ewing's sarcoma	EV DAVISON, ADJ PEARSON, J EMSLIE, <i>et al</i>	797
Peptic (contact ulcer) granuloma of the larynx	TL MIKO	800
Prevalence of pulmonary embolism at necropsy in patients with cancer	E SVENDSEN, B KARWINSKI	805
Critical evaluation of monoclonal antibody staining in breast carcinoma	DM PARHAM, G COGHILL, AJ ROBERTSON	810
Variation in histomorphometric estimates across different sites of the iliac crest	RJ MOORE, TC DURBRIDGE, AE WOODS, <i>et al</i>	814
Use of subcutaneous abdominal fat biopsy specimen for detailed typing of amyloid fibril protein-AL by amino acid sequence analysis	P WESTERMARK, L BENSON, JESSIE JUUL, <i>et al</i>	817
In situ demonstration of tissue proliferative activity using anti-bromo-deoxyuridine monoclonal antibody	S VERONESE, M GAMBACORTA, B FALINI	820
Lysozyme and mucins in gastric adenomas	RA CARUSO, F LASPADA, G CASABLANCA, <i>et al</i>	827
Topographic association between active gastritis and <i>Campylobacter pylori</i> colonisation	E BAYERDÖRFFER, H OERTEL, N LEHN, <i>et al</i>	834
In vitro amplification of hepatitis B virus sequences from liver tumour DNA and from paraffin wax embedded tissues using the polymerase chain reaction	Y-MD LO, WZ MEHAL, KA FLEMING	840
Clinical and pathological variability of infection by enterohaemorrhagic (Vero cytotoxin producing) <i>Escherichia coli</i>	CM HUNT, JA HARVEY, ER YOUNGS, <i>et al</i>	847
Use of protein profiles to identify <i>Acinetobacter calcoaceticus</i> in a respiratory care unit	L DIJKSHOORN, JL WUBBELS, AJ BEUNDERS, <i>et al</i>	853
Laboratory techniques		
ACP Broadsheet 122: Platelet function testing	RA HUTTON, CA LUDLAM	858
<i>Pneumocystis carinii</i> antibody testing	JMW CHATTERTON, AWL JOSS, H WILLIAMS, <i>et al</i>	865
Comparison of immunofluorescence and enzyme linked immunosorbent assays for diagnosing Lyme disease	SJ CUTLER, DJM WRIGHT	869
New method for detecting slime production by coagulase negative staphylococci	DJ FREEMAN, FR FALKINER, CT KEANE	872

Contents

	Page
Improved method for immunoperoxidase detection of membrane antigens in frozen sections MA GREEN, L SVILAND, AJ MALCOLM, <i>et al.</i>	875
Orcein-alcian blue staining: a new technique for demonstrating acid mucins in gastrointestinal epithelium R SINGH, AWP GORTON.....	881
Letters to the Editor	885
Matters arising, Book reviews, Corrections	890
 No 9 SEPTEMBER 1989	
Papers	
Necropsies in clinical audit NH ANDERSON, JH SHANKS, GWG MCCLUGGAGE, <i>et al.</i>	897
Oestrogen receptors in mucinous carcinoma of the breast: an immunohistological study using paraffin wax sections S SHOUSHA, AT COADY, TINA STAMP, <i>et al.</i>	902
Rapid reporting on fine needle aspiration of breast lumps in outpatients JA ZUK, GILLIAN MAUDSLEY, HD ZAKHOUR	906
Postmortem audit in a paediatric cardiology unit GA RUSSELL, PJ BERRY.....	912
Gastric mucosa in patients with portal hypertension: prevalence of capillary dilatation and <i>Campylobacter pylori</i> PN FOSTER, JI WYATT, DW BULLIMORE, <i>et al.</i>	919
Pseudomembranous trigonitis of the bladder: hormonal aetiology TJ STEPHENSON, L HENRY, SC HARRIS, <i>et al.</i>	922
Expression of laminin in benign and malignant sclerosing lesions of extrahepatic bile ducts C HAGLUND, PJ ROBERTS, D NORDLING	927
Calcification of umbilical artery: two distinct lesions TY KHONG, SA DILLY.....	931
Immunohistological localisation of staphylococcal toxic shock syndrome toxin (TSST-1) antigen in sudden infant death syndrome MELANIE J NEWBOULD, JACQUI MALAM, JOANNA M MCILLMURRAY, <i>et al.</i>	935
Effect of radiotherapy on oral mucosa assessed by quantitative exfoliative cytology GR OGDEN, JG COWPE, MW GREEN	940
Angiolympoid hyperplasia with eosinophilia: possible aetiological role for immunisation LAVINIA A HALLAM, GA MACKINLAY, ANNE MA WRIGHT.....	944
Acquired platelet dysfunction with eosinophilia: review of seven adult cases SH LIM, CE TAN, T AGASTHIAN, <i>et al.</i>	950
Molecule detected in formalin fixed tissue by antibodies MT1, DF-T1, and L60 (Leu-22) corresponds to CD43 antigen WP STROSS, RA WARNKE, DJ FLAVELL, <i>et al.</i>	953
Leukaemic phase of mantle zone (intermediate) lymphoma: its characterisation in 11 cases MS POMBO DE OLIVEIRA, ES JAFFE, D CATOVSKY. Antibodies to <i>Escherichia coli</i> 0157 in patients with haemorrhagic colitis and haemolytic uraemic syndrome H CHART, SM SCOTLAND, HR SMITH, <i>et al.</i>	962
Effect of isoniazid, a haem inhibitor, on globin chain synthesis in reticulocytes from non-thalassaemic and β thalassaemic subjects G CHALEVELAKIS, AG YALOURIS, C LYBERATOS, <i>et al.</i>	977
Laboratory techniques	
Use of monoclonal anti-actin as a megakaryocyte marker in paraffin wax embedded bone marrow biopsy specimens C BOUQUÉ, N PUJOL-MOIX, MA LINDE, <i>et al.</i>	982
Enzyme linked immunosorbent assay for measuring antithrombin III P EDGAR, I JENNINGS, P HARPER.....	985
Detection of human papilloma viruses in paraffin wax sections with biotinylated synthetic oligonucleotide probes and immunogold staining HEATHER A CUBIE, MARY NORVAL.....	988
Improved silver technique for showing nucleolar organiser regions in paraffin wax sections KY CHIU, SL LOKE, KK WONG.....	992
Detection of <i>Campylobacter pylori</i> in stomach tissue by DNA in situ hybridisation FM VAN DEN BERG, H ZIJLMANS, WIES LANGENBERG, <i>et al.</i>	995
Letters to the Editor	1001
Matters arising, Notices	1005
 No 10 OCTOBER 1989	
Occasional articles	
External quality assessment in histopathology: an overview FD LEE.....	1009
Use of immunochemistry in Britain: EQA Forum antibody usage questionnaire CAROLE A ANGEL, EADIE HEYDERMAN, I LAUDER	1012
Review: Assessment of complement activation in clinical immunology laboratories: time for reappraisal? M PEAKMAN, G SENALDI, D VERGANI	1018
Papers	
Bronchial gland duct ectasia in fatal bronchial asthma: association with interstitial emphysema A CLUROE, L HOLLOWAY, K THOMSON, <i>et al.</i>	1026
Morphometric and flow cytometric analysis of small cell undifferentiated carcinoma of the bladder CEM BLOMJOUS, W VOS, NW SCHIPPER, <i>et al.</i>	1032
Is there any justification for the routine examination of bowel resection margins in colorectal adenocarcinoma? SS CROSS, AD BULL, JHF SMITH.....	1040
Imprint cytology in immunocytochemical analysis of oestrogen and progesterone receptors of breast carcinoma HJ HELIN, JJ ISOLA, MJ HELIN, <i>et al.</i>	1043
Prognostic value of prostaglandin F2 α concentrations in breast carcinoma PA VAN DAM, IB VERGOTE, GM LAEKEMAN, <i>et al.</i>	1046
Findings in lymph nodes of patients with germ cell tumours after chemotherapy and their relation to prognosis RJ ZUK, BJ JENKINS, JE MARTIN, <i>et al.</i>	1049
Cytomegalovirus infection in gastrointestinal tracts of patients infected with HIV-1 or AIDS ND FRANCIS, AW BOYLSTON, AHG ROBERTS, <i>et al.</i>	1055
Immunolocalisation of α interferon in liver disease CGG SUTHERLAND, AM T AL-BADRI, AG HOWATSON, <i>et al.</i>	1065
Antibodies to cytomegalovirus in renal allograft recipients: correlation with isolation of virus J DOLAN, JD BRIGGS, GB CLEMENTS	1070
Monitoring the acute phase response: comparison of tumour necrosis factor (cachectin) and C-reactive protein responses in inflammatory and infectious diseases CPJ MAURY.....	1078

	Page
Leucocyte behaviour in controlled ischaemia of the calves G CIUFFETTI, M MERCURI, RITA LOMBARDINI, <i>et al</i>	1083
Erythrocyte autoantibodies, autoimmune haemolysis, and myelodysplastic syndromes RJ SOKOL, S HEWITT, DJ BOOKER	1088
Longitudinal study of circulating gastric antibodies in pernicious anaemia RJL DAVIDSON, HI ATRAH, HF SEWELL	1092
Laboratory techniques	
Comparative quality assessment in immunocytochemistry: pilot study of CD15 staining in paraffin wax embedded tissue in Hodgkin's disease CAROLE A ANGEL, A WARFORD, SJ DAY, <i>et al</i>	1096
New method for preserving cytology specimens J MCCORRISTON	1101
Light and electron microscopic demonstration of extracellular immunoglobulin deposition in renal tissue MD AL-NAWAB, DR DAVIES	1104
Evaluation of commercial latex slide test for identifying <i>Escherichia coli</i> 0157 PA CHAPMAN	1109
Letters to the Editor	1111
Matters arising, Book reviews, Notices	1116

No 11 NOVEMBER 1989

Occasional article	
Chemistry of marathon running AC AMES	1121
Papers	
Diagnosis of acute myocardial infarction from sequential enzyme measurements obtained within 12 hours of admission to hospital PO COLLINSON, EM RAMHAMADANY, SB ROSALKI, <i>et al</i>	1126
Is low proteinuria an early predictor of severity of acute pancreatitis? CP SHEARMAN, P GOSLING, KJ WALKER	1132
Diamine oxidase plasma activities after treatment with heparin and jejunal morphometry in untreated coeliac disease GR CORAZZA, L GINALDI, A FALASCA, <i>et al</i>	1136
Microbiology of infected pilonidal sinuses I BROOK	1140
Changes in phagocytic function with glycaemic control in diabetic patients SM MACRURY, CG GEMMELL, KR PATERSON, <i>et al</i>	1143
<i>N-myc</i> amplification in neuroblastomas: histopathological, DNA ploidy, and clinical variables BR OPPEDAL, O ØIEN, T JAHNSEN, <i>et al</i>	1148
Brown adipose tissue activity in pyrexial cases of cot death MEJ LEAN, G JENNINGS	1153
Umbilical cord sclerosis as an indicator of congenital syphilis S KNOWLES, TERESA FROST	1157
Portal lymphadenopathy associated with lipofuscin in chronic cholestatic liver disease SG HÜBSCHER, RF HARRISON	1160
Breast carcinoma cellularity and its relation to oestrogen receptor content DM PARHAM, PR BAKER, AJ ROBERTSON, <i>et al</i>	1166
Pathology of tropical appendicitis SC GUPTA, AK GUPTA, NK KESWANI, <i>et al</i>	1169
Type IV collagen and laminin staining patterns in benign and malignant cutaneous lesions RONA M MACKIE, DB CLELLAND, CHRISTINE J SKERROW	1173
Lectin binding properties of cells from serous effusion and peritoneal washing specimens PW SHIELD	1178
Evaluation of impact of immunocytochemical techniques in cytological diagnosis of neoplastic effusions ALESSANDRA LINARI, G BUSSOLATI	1184
Quality assurance programme for necropsies MICHÈLE HARRISON, DO'B HOURIHANE	1190
Laboratory techniques	
Detection of T cells in paraffin wax embedded tissue using antibodies against a peptide sequence from the CD3 antigen DY MASON, JACQUELINE CORDELL, MARION BROWN, <i>et al</i>	1194
Use of APAAP technique on paraffin wax embedded bone marrow trephines WENDY N ERBER, JANET MCLACHLAN	1201
Detection of hepatitis B virus DNA in serum using synthetic non-radioactive oligonucleotides A MANZIN, P PAURI, P BAGNARELLI, <i>et al</i>	1206
Immunofluorescence of immunoglobulins and complement in kidneys taken at necropsy J VARIS, I RANTALA, A PASTERNAK	1211
Comparison of immunodiffusion and enzyme linked immunosorbent assay for antibodies to four <i>Aspergillus</i> species JH FROUDIST, GB HARNETT, R MCALEER	1215
Letters to the Editor	1222
Matters arising, Book reviews, and Notices	1227

No 12 DECEMBER 1989

Papers	
On-call service: the role of chemical pathologists WD NEITHERCUT, JR PATERSON, RJ SPOONER	1233
Laboratory based study of undetectable thyroid stimulating hormone MA POLLOCK, A JONES	1237
Biochemical predictors of short term mortality in elderly residents of chronic care institutions JEAN WOO, SM CHAN, YT MAK, <i>et al</i>	1241
Interrelation between factor VII, prekallikrein, and hyperfibrinolysis in advanced cirrhosis F VIOLI, C ALESSANDRI, D FERRO, <i>et al</i>	1246
Detection of erythroid hypoplasia in myelofibrosis by using erythrokinetic studies JE HOWARTH, HM WATERS, K HYDE, <i>et al</i>	1250
Bone marrow fibrosis in childhood acute lymphoblastic leukaemia JP WALLIS, MM REID	1253
Antibiotic resistant fever associated with herpes simplex virus infection in neutropenic patients with haematological malignancy TP BAGLIN, JJ GRAY, RE MARCUS, <i>et al</i>	1255
Carriage of <i>Candida</i> species and <i>C albicans</i> biotypes in patients undergoing chemotherapy or bone marrow transplantation for haematological disease FC ODDS, CC KIBBLER, E WALKER, <i>et al</i>	1259
Are AgNORs useful in distinguishing follicular hyperplasia from follicular lymphoma? K CRONIN, BARBARA M LOFTUS, PA DERVAN	1267
Lymphoid follicles in antral mucosa: immune response to <i>Campylobacter pylori</i> ? M STOLTE, S EIDT	1269
Immunoreactive determinants of CA 125 in women with endometriosis OA MOJIMINIYI, ME BRAMWELL, SH KENNEDY, <i>et al</i>	1272
Nucleolar organiser regions in adenocarcinoma in situ of the endocervix JE CULLIMORE, TP ROLLASON, T MARSHALL	1276

Contents

	Page
Serological screening tests for syphilis in pregnancy: results of a five year study (1983–87) in the Oxford region P BOWELL, K MAYNE, A PUCKETT, <i>et al</i>	1281
Laboratory techniques	
Comparison of six commercial enzyme linked immunosorbent assays for detecting IgM antibodies against <i>Toxoplasma gondii</i> C VERHOFSTEDE, L VAN RENTERGHEM, J PLUM	1285
Assessment of immunoglobulin-M immunosorbent agglutination assay (ISAGA) for detecting toxoplasma specific IgM KIM T DUFFY, PJ WHARTON, JULIE D JOHNSON, <i>et al</i>	1291
Differentiation between Bernard-Soulier syndrome and immune thrombocytopenia by immunostaining of peripheral blood LO POULSEN, P JOHANSEN, MK JENSEN, <i>et al</i>	1296
Microtitre plate measurement of platelet response to hypotonic stress A FARRUGIA, C HUGHES, S DOUGLAS, M NEAL, <i>et al</i>	1298
Simple method for granulocyte-macrophage cell culture and staining in soft agar: comparison with a standard research technique K HYDE, AJ STEED, H LENEHAN, <i>et al</i>	1302
Letters to the Editor	1309
Book reviews and Notices	1312
List of Assessors	1319
Annual author index to Vol 42	1320
Annual subject index to Vol 42	1325
Annual contents index to Vol 42	