
Journal of

EPIDEMIOLOGY & COMMUNITY HEALTH

EDITORIAL BOARD

STUART DONNAN (*Editor*)

PETER GRIME & SELWYN ST LEGER (*Associate Editors*)

CARLOS ALVAREZ-DARDET
JOHN ASHTON
NICK BLACK
NICOLA CHERRY
GUISEPPE COSTA
KATHRYN DEAN
JOHN FOX

CECILY KELLEHER
BENGT LINDSTRÖM
JOHAN P MACKENBACH
SIR DUNCAN NICHOL
HARRY NIJHUIS
ANASTAS E PHILALITHIS

CHRISTINE POWER
ORIOLE RAMIS-JUAN
ALAN SILMAN
GEORGE DAVEY SMITH
TAPANI VALKONEN
GRAHAM WINYARD

THE EDITOR *British Medical Journal*

KLIM McPHERSON }
RAJ BHOPAL } representing the UK SOCIETY FOR SOCIAL MEDICINE

NORMA PEARCE (*Technical Editor*)

LORNA TITTLE (*Editorial Assistant*)

MARLENE MIDDLETON (*Editorial Assistant*)

VOLUME 48

1994

BRITISH MEDICAL ASSOCIATION : TAVISTOCK SQUARE : LONDON WC1H 9JR

	1 In this number
Editorials	1 The philosophical foundations of public health: an invitation to debate <i>H G Nijhuis, J G Van Der Maesen</i>
	3 Key words and indices <i>S Donnan</i>
Comment	4 Two classes of creativity—improving systematic reviews <i>J A Muir Gray</i>
Cochrane lecture	6 The best and the enemy of the good: randomised controlled trials, uncertainty, and assessing the role of patient choice in medical decision making <i>K McPherson</i>
Review article	16 Health and health care of rural populations in the UK: is it better or worse? <i>I S Watt, A J Franks, T A Sheldon</i>
Epidemiological studies	22 Randomised controlled trial in northern England of the effect of a person knowing their own serum cholesterol concentration <i>P J Elton, A Ryman, M Hammer, F Page</i>
	26 Demographic and dietary profiles of high and low fat consumers in Australia <i>K I Baghurst, P A Baghurst, S J Record</i>
	33 Recurrence of acute otitis media at preschool age in Sweden <i>F Rasmussen</i>
	36 Smoking and drinking habits before and during pregnancy in Spanish women <i>F Bolumar, M Rebagliato, I Hernandez-Aguado, C du V Florey</i>
	41 An outbreak of illness among school children in London: toxic poisoning not mass hysteria <i>J C Aldous, G A Ellam, V Murray, G Pike</i>
	46 Three year follow up study of national influenza vaccination practices in Japan <i>S Morio, N Okamoto, A Kawamoto, A Suyama, M Okamoto, H Nakayama</i>
	52 Why don't more young men in the UK become fathers? <i>A Cartwright</i>
	55 HIV surveillance by testing saliva from injecting drug users: a national study in New Zealand <i>N P Dickson, F J Austin, C Paul, K J Sharples, D C G Skegg</i>
Health services research	58 Appropriate indications for prostatectomy in the UK – results of a consensus panel <i>D J W Hunter, C M McKee, C F B Sanderson, N A Black</i>
	65 Prospective study of predictors of attendance for breast screening in inner London <i>S Sutton, G Bickler, J Sancho-Aldridge, G Saidi</i>
	74 Is use of hospital services a proxy for morbidity? A small area comparison of the prevalence of arthritis, depression, dyspepsia, obesity, and respiratory disease with inpatient admission rates for these disorders in England <i>J N Payne, J Coy, S Patterson, P C Milner</i>
Methodological issues	79 Epidemiology and causation: a realist view <i>A Renton</i>
	86 Measuring health status in the community: a comparison of methods <i>P Kind, C M Gudex</i>
	92 General practitioner notes as a source of information for case-control studies in young women <i>C E D Chilvers, M C Pike, C N Taylor, C Hermon, B Crossley, S J Smith, and the UK National Case-Control Study Group</i>
	98 Referees 1993
	100–104 Letters to the Editor · Notices · Book reviews

	105 In this number
Editorial	105 Referees: authors to suggest referees for their papers <i>S Donnan</i>
Comment	106 Drinking and health – an official survey of new information from British households <i>E Goddard</i>
Review article	107 Methods for epidemiological surveys of ethnic minority groups <i>N Chaturvedi, P M McKeigue</i>
Epidemiology	112 Ischaemic heart disease: association with haematocrit in the British Regional Heart Study <i>G Wannamethee, A G Shaper, P H Whincup</i>
	119 Coronary heart disease: prevalence and dietary sugars in Scotland <i>C Bolton-Smith, M Woodward</i>
	123 Look After Your Heart programme: impact on health status, exercise knowledge, attitudes, and behaviour of retired women in England <i>L Rowland, E J Dickinson, P Newman, D Ford, S Ebrahim</i>
	129 Acute myocardial infarction: association with time since stopping smoking in Italy <i>E Negri, C La Vecchia, B D'Avanzo, A Nobili, R G La Malfa on behalf of the GISSI-EFRIM investigators</i>
	134 Failure of cigarette smoking to explain international differences in mortality from chronic obstructive pulmonary disease <i>C A Brown, I K Crombie, H Tunstall-Pedoe</i>
	140 Living standards and mortality in the European Community <i>J P Mackenbach, C W N Looman</i>
	146 Age, socioeconomic status, and mortality at the aggregate level <i>S A Reijneveld, L J Gunning-Schepers</i>
	151 Zoonotic illness – determining risks and measuring effects: association between current animal exposure and a history of illness in a well characterised rural population in the UK <i>D Rh Thomas, R L Salmon, S M Kench, D Meadows, T J Coleman, P Morgan-Capner, K L Morgan</i>

	156	Aetiology of peptic ulcer: a prospective population study in Norway <i>R Johnsen, O H Førde, B Straume, P G Burhol</i>
	161	Case-control study on the association between a cluster of childhood haematopoietic malignancies and local environmental factors in Aalsmeer, The Netherlands <i>Y M Mulder, M Drijver, I A Kreis</i>
	166	Socioeconomic influences on back problems in the community in Britain <i>P R Croft, A S Rigby</i>
	171	Options in making use of pregnancy history in planning and analysing studies of reproductive failure <i>J Olsen</i>
Health services research	175	Effect on breast cancer screening response in The Netherlands of inviting women for an additional scientific investigation <i>P H M Peeters, C G M M Beckers, J M W Hogervorst, H J A Collette</i>
	178	Screening for coronary heart disease risk factors in retail pharmacies in Sheffield, 1992 <i>C Allison, H Page, S George</i>
	182	Gastric cancer screening programme in Japan: how to improve its implementation in the community <i>B Wang, H Yanagawa, K Sakata</i>
	188	Prevalence of total hip replacement: how much demand has been met? <i>M H Williams, J N Newton, S J Frankel, F Braddon, E Barclay, J A M Gray</i>
Methodology	192	Are multidimensional social classifications of areas useful in UK health service research? <i>R Reading, S Openshaw, S Jarvis</i>
	201	Measurement issues in research on social support and health <i>K Dean, E Holst, S Kreiner, C Schoenborn, R Wilson</i>
	207	Assessing psychiatric disorder with a human interviewer or a computer <i>G Lewis</i>
Short report	211	Avoidable mortality and life expectancy in New Zealand <i>M Malcolm</i>
	212-215	Letters to the Editor · Notices · Book reviews

June 1994 Vol 48 No 3

	217	In this issue
Editorial	217	Creating a new knowledge base for the new public health <i>K Dean</i>
Comment	220	Smoking and health promotion in Nazi Germany <i>G Davey Smith, S A Ströbele, M Egger</i>
Review article	224	Product definition for healthcare contracting: an overview of approaches to measuring hospital output with reference to the UK internal market <i>N Söderlund</i>
Epidemiology	232	Leukaemia and non-Hodgkin's lymphoma: incidence in children and young adults resident in the Dounreay area of Caithness, Scotland in 1968-91 <i>R J Black, L Sharp, E F Harkness, P A McKinney</i>
	237	Is living near a coking works harmful to health? A study of industrial air pollution <i>R S Bhopal, P Phillimore, S Moffatt, C Foy</i>
	248	Lay people's evaluations of health: are there variations between different subgroups? <i>H van Dalen, A Williams, C Gudex</i>
	254	Cardiovascular disease mortality in Belgrade: trends from 1975-89 <i>H D Vlainjac, B J Adanja, M S Jarebinski, S B Sipetic</i>
	258	Hypertension and determinants of blood pressure with special reference to socioeconomic status in a rural south Indian community <i>E C A M Gilberts, M J C W J Arnold, D E Grobbee</i>
	262	Burden of disability in a post war birth cohort in the UK <i>D J L Kuh, M E J Wadsworth, E J Yusuf</i>
	270	Child defecation behaviour, stool disposal practices, and childhood diarrhoea in Burkina Faso: results from a case-control study <i>E Traoré, S Cousens, V Curtis, T Mertens, F Tall, A Traoré, B Kanki, I Diallo, A Rochereau, J-P Chiron, F Mégraud</i>
	276	Bacterial meningitis in Swaziland: an 18 month prospective study of its impact <i>H Ford, J Wright</i>
	281	Breast feeding in Israel: maternal factors associated with choice and duration <i>P Ever-Hadani, D S Seidman, O Manor, S Harlap</i>
	286	Lactation amenorrhoea in Saudi Women <i>K A Madani, R H Khashoggi, A AL-Nowaisser, H A Nasrat, M H Khalil</i>
	290	Impact of prenatal diagnosis by ultrasound on the prevalence of congenital anomalies at birth in southern France <i>C Julian-Reynier, N Philip, C Scheiner, Y Aurran, F Chabal, A Maron, A Gombert, S Aymé</i>
Health services Research	297	Antenatal screening: its use in assessing obstetric risk factors in Zimbabwe <i>V D Tsu</i>
	309	Age and marital status are major factors associated with institutionalisation in elderly Hong Kong Chinese <i>J Woo, S C Ho, J Lau, Y K Yuen</i>
	310	Gastrectomy and subsequent risk of oesophageal cancer in Milan <i>C La Vecchia, B D'Avanzo, E Negri, S Franceschi, P Boyle</i>
Methodology	313	Estimating confidence limits on a standardised mortality ration when the expected number is not error free <i>P Silcocks</i>
	318	Estimating incidence and prevalence of treated psychiatric disorders from routine statistics: the example of schizophrenia in Oxfordshire <i>M Goldacre, R Shiwach, D Yeates</i>
Short reports	323	Effect of the moon on general practitioners' on call work load <i>L Macdonald, P Perkins, R Pickering</i>
	324	Oral contraceptive use and risk of myocardial infarction: an Italian case-control study <i>B D'Avanzo, C La Vecchia, E Negri, F Parazzini, S Franceschi</i>
	326	The "healthy passive smoker": relationship between bronchial hyper-reactivity in school children and maternal smoking <i>R Meinert, Th Frischer, J Kuehr</i>
	327	Notices · Book reviews

- 329 In this number
- Editorials** 329 The epidemiologic transition theory *J P Mackenbach*
- 331 AIDS in Spain: lessons learned from a public health disaster *C Alvarez-Dardet, I Hernandez Aguado*
- Review article** 333 Unemployment and ill health: understanding the relationship *M Bartley*
- Epidemiology** 338 Cardiovascular risk determination: discrepancy between total cholesterol evaluation and two compound laboratory indices in Norway *J E Berg, AT Høstmark*
- 344 Coronary heart disease rates within a small urban area in Belgium *G de Backer, G Thys, I de Craene, Y Verhasselt, S de Henauw*
- 348 Cardiovascular risks and socioeconomic status: differences between men and women in Finland *R Luoto, J Pekkanen, A Uutela, J Tuomilenko*
- 355 Serum lipid and apolipoprotein distributions in Hong Kong Chinese *P-C Fong, S C-F Tam, Y-T Tai, C-P Lau, J Lee, Y-Y Sha*
- 360 Serum lipids and mood in working men and women in Sweden *G Lindberg, G Larsson, S Setterlind, L Råstam*
- 364 Deaths from primary brain cancers, lymphatic and haematopoietic cancers in agricultural workers in the Republic of Ireland *G Dean*
- 369 Leukaemia clusters in childhood: geographical analysis in Britain *E G Knox*
- 377 Depression and smoking in pregnancy in Scotland *C W Pritchard*
- 383 Slow progression to AIDS in intravenous drug users infected with HIV in Norway *A Eskild, P Magnus, C Sohlberg, P Kittelsen, J H Olving, B Teige, K Skullerud*
- 388 Comparative health status of patients with 11 common illnesses in Wales *R A Lyons, S V Lo, B N C Littlepage*
- Health services research** 391 Mammographic screening: measurement of the cost in a population based programme in Victoria, Australia *S F Hurley, P M Livingston, N Thane, L Quang*
- 400 Birth outcomes by level of obstetric care in Finland: a catchment area based analysis *K Viisainen, M Gissler, E Hemminki*
- 406 What is the optimal caesarean section rate? An outcome based study of existing variation *M Joffe, J Chapple, C Paterson, R W Beard*
- Methodology** 412 AIDS and behavioural risk factors in women in inner city Baltimore: a comparison of telephone and face to face surveys *M Nebot, D D Celentano, L Burwell, A Davis, M Davis, M Polacsek, J Santelli*
- Short reports** 419 Incontinence in women: different response rates may introduce bias in community studies of pad consumption *H Sandvik, S Hunskaar*
- 420 Lung cancer: histological aspects of diagnosis in England and the south east Netherlands *S M Crawford, F Atherton*
- 421 Socioeconomic status: developing a quantitative community based index in rural Kashmir *T D Dye, R V Lee*
- 423 **Letters to the Editor · Notices · Book reviews**

- 425 In this number
- Editorial** 425 Why we need qualitative research *N Black*
- Duncan memorial lecture** 427 Who cares for health? Social relations, gender, and the public health *A Oakley*
- Review article** 435 Evaluation of medical audit *M B Robinson*
- Epidemiology** 441 Cancer patient survival by socioeconomic status in The Netherlands: a review for six common cancer sites *C T M Schrijvers, J P Mackenbach*
- 447 Cancer risk and social inequalities in Italy *F Faggiano, R Zanetti, G Costa*
- 453 Gastroenteritis: a waterborne outbreak affecting 1600 people in a small Danish town *E Laursen, O Mygind, B Rasmussen, T Rønne*
- 459 IV drug users: changes in risk behaviour according to HIV status in a national survey in Spain *M Delgado-Rodriguez, L de la Fuente, M J Bravo, P Lardelli, G Barrio*
- 464 Pregnancy related sickness absence in a Swedish county, 1985-87 *K Alexanderson, G Hensing, M Leijon, I Åkerlind, H Rydh, J Carstensen, P Bjurulf*
- Health services research** 471 Breast cancer early diagnosis experience in Florence: can a self referral policy achieve the results of service screening? *D Giorgi, E Paci, M Zappa, M Rosselli del Turco*
- 476 Comprehensive periodic health examination: impact on health care utilisation and costs in a working population in Japan *A Ren, T Okubo, K Takahashi*
- Methodology** 482 Health expectancy: an indicator for change? *J Barendregt, L Bonneux, P Van de Maas for the Technology Assessment Methods Project Team*
- Short reports** 488 Falls among the elderly: distinguishing indoor and outdoor risk factors in Canada *J L O'Loughlin, J-F Boivin, Y Robitaille, S Suissa*
- 489 Remembering fractures: fracture registration and proband recall in southern Sweden *B Jónsson, P Gärdsell, O Johnell, I Redlund-Johnell, I Sernbo*
- 490 School injuries in Athens: socioeconomic and family risk factors *E Petridou, N Kouri, D Trichopoulos, K Revinthi, Y Skalkidis, D Tong*

	529 In this number
Editorial	529 Quality of life for children and disabled children based on health as a resource concept <i>B Lindström</i>
Review article	531 Disorders characterised by pain: a methodological review of population surveys <i>H Raspe, T Kohlman</i>
Epidemiology	538 Asymptomatic hyperglycaemia and major ischaemic heart disease events in Britain <i>I J Perry, S G Wannamethee, P H Whincup, A G Shaper</i> 543 Fat intake: implications of changes in distribution for setting dietary goals in the UK <i>J Pryer, E Brunner, M Marmot</i> 549 Antioxidant vitamins in the diet: relationships with other personal characteristics in Finland <i>R Järvinen, P Knekt, R Seppänen, A Reunanen, M Heliövaara, J Maatela, A Aromaa</i> 554 Cancer patient survival by socioeconomic status in seven countries: a review for six common cancer sites <i>C T M Schrijvers, J P Mackenbach</i> 555 Damp housing and adult health: results from a lifestyle study in Worcester, England <i>C N Packer, S Stewart-Brown, S E Fowle</i> 560 Hazardous chemicals: psychological dimensions of the health sequelae of a community exposure in Texas <i>H H Dayal, T Baranowski, Y Li, R Morris</i> 569 Urinary symptoms: prevalence and severity in British men aged 55 and over <i>D J W Hunter, C M McKee, N A Black, C F B Sanderson</i> 576 Primary infertility: characteristics of women in North America according to pathological findings <i>V Beral, R Rolfs, M R Joesoef, S Aral, D W Cramer</i> 580 HIV infection: social network, social support, and CD4 lymphocyte values in infected homosexual men in Malmö, Sweden <i>L Persson, B Gullberg, B S Hanson, T Moestrup, P-O Östergren</i>
Health services research	586 Cervical screening: the optimum visit plan for contacting users and non-users in Scotland <i>I K Crombie, S Orbell, G Johnston, A J Robertson, M Kenicer</i>
	590 Geographical variation in hospital admission rates: an analysis of workload in the Oxford region, England <i>J N Newton, V Seagroatt, M Goldacre</i>
Methods	596 Cancer incidence: life table risk <i>versus</i> cumulative risk <i>L J Schouten, H Straatman, L A L M Kiemeny, A L M Verbeek</i>
Short reports	601 Leukaemia risk and social contact in children aged 0–4 years in southern England <i>E Roman, A Watson, D Bull, K Baker</i> 602 Spread of influenza: a study of risk factors in homes for the elderly in Wales <i>A Mukerjee</i> 605 Injury events: utility of self report in retrospective identification in the USA <i>B L Braun, S G Gerberich, S Sidney</i> 607 Letters to the editor · Notices · Book reviews · Short reviews 609 Main subject index 1994 620 Author index 1994

Referees 1993

The Editor would like to thank the following for their help in refereeing articles during 1993:

- | | | |
|-----------------------------|------------------------|---------------------------------|
| Dr A Ades | Mr J Duffy | Dr M McCarthy |
| Professor E Alberman | Dr A G Dunn | Professor J McEwen |
| Professor C Alvarez-Dardet* | Ms K Dunnell | Dr C McGrother |
| Professor H R Anderson | Dr E Duran-Tauleria | Professor S MacIntyre |
| Dr J S A Ashley | Dr A Eardley | Dr P McKeigue |
| Dr J Ashton* | Professor S Ebrahim | Dr R McNamee |
| Dr C Atkinson | Dr J Elford | Professor K McPherson* |
| Dr D Bainton | Dr R Ellman | Dr T E Mertens |
| Dr M Barbour | Professor M Elstein | Ms C Middle |
| Dr D Baxter | Dr P Elwood | Dr R Milne |
| Dr R Beech | Mr J Emami | Dr M Morgan |
| Dr N Begg | Dr M Evans | Dr S Moss |
| Dr J Bell | Professor R D T Farmer | Dr M Murphy |
| Dr Y Ben-Shlomo | Dr A Fitzgerald | Dr M Newell |
| Professor R S Bhopal* | Dr R Fitzpatrick | Dr A Nicholson |
| Dr N A Black* | Dr A Fletcher | Dr H Nijhuis* |
| Dr U J Blumenthal | Dr R Flowerdew | Dr C Osmond |
| Dr A Boddy | Dr D Forman | Dr M J Painter |
| Professor F Bolumar | Dr A J Fox* | Dr S Palmer |
| Dr M Boulton | Dr M Fulton | Dr G Parker |
| Professor G J Bourke | Dr S George | Dr C Parkes |
| Dr T Bowker | Mr A Gibbs | Dr I Perry |
| Dr P Brennan | Dr R Gilbert | Dr P Pharaoh |
| Dr N Bruce | Dr C Gill | Professor Emeritus C I Phillips |
| Mr E Brunner | Dr S Gillespie | Dr D Phillips |
| Professor C J Bulpitt | Dr M J Goldacre | Dr M J Platt |
| Dr M Burr | Professor J Golding | Dr M Plummer |
| Dr R Butcher | Professor R Griffiths | Ms J Popay |
| Dr J Cade | Dr H Guite | Dr N Poulter |
| Dr M J Campbell | Dr M Gulliford | Dr C Power* |
| Dr F Cappuccio | Dr I Harvey | Ms R Pushkin |
| Dr R Carr-Hill | Dr C Haslam | Dr A Renton |
| Professor R Cartwright | Professor A Hedley | Professor M Roland |
| Professor G Chamberlain | Dr B Herity | Dr E Roman |
| Professor N Cherry* | Dr T Hoare | Dr R J Rona |
| Professor C E D Chilvers | Professor P Holloway | Professor R Rosenblatt |
| Professor M Clarke | Professor M Horan | Dr J Rosenthal |
| Dr D Coggon | Dr R Hussey | Mr C V Ruckley |
| Dr J Connelly | Professor P Huxley | Dr C Sanderson |
| Dr C Cooper | Dr C Jagger | Dr H Sanderson |
| Ms S Cotter | Dr D Jarvis | Professor H Schneiden |
| Dr J M Cowden | Dr M Jarvis | Dr C Shaw |
| Dr E F Coyle | Dr E Jessop | Dr S Shepherd |
| Dr T Crayford | Dr M Joffe | Dr M J Shipley |
| Professor F Creed | Dr A Johnson | Dr P Silcocks |
| Dr P Croft | Dr F Kee | Professor A Silman* |
| Dr J K Cruickshank | Dr A Kelly | Dr S Singh |
| Professor H Cuckle | Professor C Kiernan | Dr A Slovak |
| Dr G Davey Smith* | Dr L Kinlen | Professor A Smith |
| Dr J Davies | Dr P Kinnersley | Dr J Sorel |
| Dr K Dean* | Dr P Kirke | Dr A S St Leger |
| Dr G Dean | Dr J Kirwan | Dr A Stevens |
| Dr P Dewart | Professor G Knox | Dr S Stewart-Brown |
| Dr C Dezateaux | Professor R W Lacey | Dr A Streetley |
| Dr E Dickenson | Dr C Law | Dr D Symmons |
| Dr J Dixon | Professor I Leck | Ms A Taket |
| Dr M Donmall | Dr G C Leng | Professor B Taylor |
| Dr P Donnelly | Dr M Lloyd | Dr H Taylor |
| Dr M Donnelly | Dr S Logan | Mr S Thompson |
| Dr P Doyle | Dr D Mant | Dr M Thorogood |
| Dr Y Doyle | Dr J Mant | Dr N Vetter |
| | Dr C Martyn | Professor M E J Wadsworth |
| | Dr G Maudsley | Professor N Wald |

* Member of the Editorial Committee

Professor P Wallace
Dr J Walley
Dr S Walters
Dr N Wareham
Dr J Watson
Dr M White

Dr A Wieck
Dr E M I Williams
Dr F Williams
Mr G Williams
Dr J Williams
Dr A Wilson

Dr C Wolfe
Dr A Woodcock
Professor C Woodman
Dr M Woolridge
Dr J Yarnell
Dr J H Youngson