

BRITISH MEDICAL JOURNAL

U. K. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY
RECEIVED
AUG 24 1984
PROCUREMENT SECTION
CURRENT SERIAL RECORDS

SATURDAY 11 AUGUST 1984

LEADING ARTICLES

Snoring and its treatment	SHEILA JENNETT	335
A fair trial?	DOUGLAS G ALTMAN	336
Ultrasound brain scanning in the newborn	MALCOLM L CHISWICK	337
The 80th year of fifth disease	P P MORTIMER	338
Regular Review: Autoantibodies in lupus and its variants: experience in 1000 patients	GRAHAM R V HUGHES	339

CLINICAL RESEARCH • PAPERS AND SHORT REPORTS • PRACTICE OBSERVED

Diabetic autonomic neuropathy and iritis: an association suggesting an immunological cause	R J C GUY, F RICHARDS, M E EDMONDS, P J WATKINS	343
Risk of minor and major fetal malformations in diabetics with high haemoglobin A _{1c} values in early pregnancy	K YLINEN, P AULA, U-H STENMAN, T KESÄNIEMI-KUOKKANEN, K TERAMO	345
Metabolic acidosis induced by carbonic anhydrase inhibitors and salicylates in patients with normal renal function	R A COWAN, G G HARTNELL, C P LOWDELL, I McLEAN BAIRD, A M LEAK	347
Trends in sales of drugs for asthma in New Zealand, Australia, and the United Kingdom, 1975-81	G KEATING, E A MITCHELL, R JACKSON, R BEAGLEHOLE, H REA	348
Diazepam tolerance: effect of age, regular sedation, and alcohol	P J COOK, R FLANAGAN, I M JAMES	351
Idiosyncratic reactions to carbamazepine mimicking viral infection in children	CAROLINE BRAIN, BREEGE MACARDLE, SIMON LEVIN	354
Doses of aminophylline given intravenously in casualty department and resulting serum theophylline concentrations	C S MUNRO, K PROWSE	354
Can Trichomonas vaginalis cause pneumonia in newborn babies?	I HIEMSTRA, F VAN BEL, H M BERGER	355
Argyll Robertson pupils due to neurosarcoidosis: evidence for site of lesion	C J M POOLE	356
What Annoys Me Most: Getting the run around	A PATIENT	357
Rethinking Established Dogma: Vocational training for general practitioners: II	MICHAEL A VARNAM	358

MEDICAL PRACTICE

Ablative radioiodine therapy for hyperthyroidism: long term follow up study	PAT KENDALL-TAYLOR, MICHAEL J KEIR, W M ROSS	361
Teaching medical ethics	M D JEWELL	364
ABC of Poisoning: Eliminating poisons	ALLISTER VALE, TIM MEREDITH, BRENDAN BUCKLEY	366
Lesson of the Week: Aneurysm of anterior communicating artery masquerading as Adams-Stokes disease	A EDWARDS, N LONDON, A M HEAGERTY, R F BING, H THURSTON	370
Any Questions?		363, 365, 369
Materia Non Medica—Contributions from B E MILES, DAVID SINCLAIR, P R EDWARDS		371
Medicine and Books		372
Medicine and the Media—Contributions from TESSA RICHARDS, JOHN DOBBING		376
Personal View	ANNE SAVAGE	377

CORRESPONDENCE—List of Contents	378
---------------------------------	-----

NEWS AND NOTES

Views	387
Medicolegal—Debendox settlement	388
Medical News	388

OBITUARY	385
----------	-----

SUPPLEMENT

Doctors have management responsibilities too	
DAVID S GRIMES	390
Association notices: Thoracic medicine subcommittee (CCHMS); Armed forces committee	392

CORRESPONDENCE

An unusual cluster of babies with Down's syndrome—was it caused by the Windscale fire?	
P M Sharp, PHD, and D J McConnell, PHD	378
Can nocturnal emergency surgery be reduced?	
J Meyrick Thomas, FRCS; P K Datta, FRCS	378
Treatment of oesophageal cancer: proposal for a national society	
A Watson, FRCS, and L R Celestin, FRCS	379
Low osmolar contrast media	
P Davies, FRCR; G Ansell, FRCR	379
Leptospirosis in cattle and man	
S Shaunak, MB, and R P Brettell, MRCP; R J C Hart, FRCPATH, and others	380
How might we improve surgical services for rural populations in developing countries?	
A K Mukerjee, FRCSed; K S Sanjivi, MD	381
Medical education	
J Horder, FRCGP	381

Private rest homes	
J Snape, MRCP	381
Appalled junior surgeons at St Thomas's Hospital	
P A E Hurst, FRCS	382
Preregistration house officer posts	
P Thornton	382
Parental consent for examining girls under 16	
C R Lynn, LMSSA	382
Experts can already tell the government why children smoke: no psychiatrist needed	
S Chapman, BA, and F Ledwith, PHD	382
Points Too many copies required of a doctor's curriculum vita (A J McIlrvine); Junior job hunting (T Hilary Howells); Cardiac arrest after apparent recovery from an overdose of chlorpromazine (D M Bowker); Length of stay and health outcome (M Drury); Major ocular trauma in field	

hockey (P T McCollum); Rifampicin in non-tuberculous infections (W H Jopling); Washing after a stroke (A D Bateman); Inhalation devices for asthma (A J Johnson); Non-specificity of surfactant deficiency in neonatal respiratory disorders (D K James); Bad case notes (C Hawkins); Drugs and porphyria (A G Yalouris)	383
The other stretch reflex (T J Steiner); Late mortality after vagotomy and drainage for duodenal ulcer (C Caygill and others); Violence and mental illness (M Weller); Doctor to doctor (N Evans and others); Patient misinformation (G B Carter); Auto-immune thyroid disease and pregnancy (R T Cooke); Switching from private to NHS treatment (C R Bayliss); Medical indemnity (R Jandoo); Epilepsy and the law (J McCluggage); GMC and the recognition of overseas postgraduate diplomas (Sir John Crofton)	384

We may shorten letters to the editor unless the authors specifically state that we may not. This is so that we can offer our readers as wide a selection of letters as possible. We receive so many letters each week that we have to omit some of them. Letters must be typed with double spacing between lines and must be signed personally by all their authors, who should include their degrees. Letters critical of a paper may be sent to the authors of the paper so that their reply may appear in the same issue.

Correspondents should present their references in the Vancouver style (see examples in these columns). In particular, the names and initials of all authors must be given unless there are more than six, when only the first three should be given, followed by et al; and the first and last page numbers of articles and chapters should be included.

An unusual cluster of babies with Down's syndrome—was it caused by the Windscale fire?

SIR,—Dr Patricia M E Sheehan and Professor Irene B Hillary speculated that radiation released by the Windscale fire on 10 October 1957 might have been partly responsible for a cluster of births of babies with Down's syndrome (all trisomy-21) to six women who were all at one school in Dundalk, Ireland, in 1957 (12 November 1980, p 1428). Subsequent correspondence left the significance of this finding unresolved (14 January, p 146). Three points must be addressed: (1) Might this cluster of babies with Down's syndrome have occurred by chance? (2) Did any radiation from the cloud reach Ireland? (3) Is radiation known to increase the incidence of aneuploidy—for example, trisomy-21—in man?

Dr W H James (14 January, p 147) suggested that the cluster could have occurred by chance, but the data available to him were incomplete. The number of babies with Down's syndrome was ultimately reported as eight (14 January, p 147), and the number of births to girls who were at the school in 1957 was less than 400. Since none of the women was over 32 at the time of the birth of their child with Down's syndrome the expected incidence is approximately 1 in 1200.¹ Fewer than one in 60 million groups of 400 births would be expected to contain a cluster of more than seven babies with Down's syndrome so this is certainly a significant cluster.

Dr A P Brown (14 January, p 147) raised contemporary reports suggesting that it is unlikely that any radioactivity from Windscale reached Ireland. The only way in which remnants of the cloud might have reached Dundalk is by a very roundabout route. Meteorological reports show that the airstream which arrived over Ireland on 15 October 1957 could have originated a couple of days earlier over the South of England (personal communication from W G Callaghan, Irish Meteorological Service), where iodine-131 ("the only material of biological significance" in the cloud²) from the Windscale fire was recorded. Of course by 15 October the radioactivity would have diffused greatly. The Irish Meteorological Service received a request from the advisory committee on nuclear radiation in de Bilt, the Netherlands, for the filter papers exposed daily at Dublin and Valentia, Kerry, during 10-16 October 1957. Detailed analysis of their radioactive contents by γ ray spectrometer showed no important amount of iodine-131 (personal communication from W G Callaghan, Irish Meteorological Service).

Finally Bond and Chandley have concluded that in man "for aneuploidy induction by irradiation, the data would indicate that the risk of inducing trisomy is very small,"³ and there is no evidence relating to the suggested

interaction between a low level of radiation and viral infection (12 November, p 1428). In conclusion, there is no evidence that radiation from the Windscale accident might have reached Ireland and the only factor implicating it in the causation of these genetic accidents is the coincidence of timing. The cluster did not occur by chance but requires an alternative explanation.

PAUL M SHARP
DAVID J MCCONNELL

Department of Genetics,
Trinity College,
Dublin 2

¹ Smith GF, Berg JM. *Down's anomaly*. Edinburgh: Churchill Livingstone, 1976.

² Chamberlain AC, Dunster HJ. Deposition of radioactivity in north-west England from the accident at Windscale. *Nature* 1958;182:629-30.

³ Bond DJ, Chandley AC. *Aneuploidy*. Oxford: Oxford University Press, 1983:117.

Can nocturnal emergency surgery be reduced?

SIR,—All surgeons will be interested in the findings of Mr D J Sherlock and others (21 July, p 170), but I suggest that it is widely appreciated, although rarely admitted, that most emergency operations are performed at night for convenience rather than necessity.