Br Med J (Clin Res Ed): first published as 10.1136/bmj.284.6311.239 on 23 January 1982. Downloaded from http://www.bmj.com/ on 9

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## Disagreement among general practitioners regarding cause of death

DONALD W GAU, ANDREW K DIEHL

Death certificates are well known to state poorly the pathological processes leading to death. <sup>1</sup> Hospital specialists using complex investigative equipment often fail to make accurate diagnoses before death, and thus not surprisingly general practitioners with fewer diagnostic aids at their disposal often diagree on the cause of death in a particular case. In addition, even when in agreement general practitioners often differ in the exact terminology they use when completing death certificates. Apparently minor differences in wording or ordering entries on the certificate may result in the assignment of entirely different diagnostic codes once the rules of the International Classification of Diseases (ICD) are applied. <sup>1</sup> In an attempt to quantify this real and apparent diversity of opinion we have surveyed a random sample of general practitioners practising in England and Wales.

We studied principals in general practice from four regions of England and Wales (North Western, Wales, East Anglia, and South Western). From each region, a family practitioner committee (FPC) was randomly selected (Rochdale, Gwent, Suffolk, and Devon re-spectively). General practitioners from each FPC were divided into three groups according to the year that they qualified (obtained from a medical directory)? and 13 names were chosen randomly from each

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Results

The response rate among the general practitioners was 62%. The response rate among the decroe's year of qualification Analysis of the replies by area and by the decroe's year of qualification and the property of the property of the property of the decroe's year of qualification different underlying causes of death given for each case ranged from seven to 26 among the 97 general practitioners (median of 115). Many of the diagnoses given were apparently similar, but differed enough to be assuped unique ICD trubres. Non-specific diagnoses, such as setulity (ICD 1971) and myocardial degeneration (ICD 429-1) tritiners who had qualified before 1955.

To illustrate the diversity of diagnoses given for individual "patients" (table) the results for selected cases are provided but the clinical histories have been condensed. Resders may find it interesting to make their own decisions on the causes of death in the case studies.

Case I — A 78-year-old man with cancer of the protaste treated with stithbestricth has become forgeful and confused. You are called to see him because of a swollen left leg. On examination his blood pressure is 160/107 mm Hg. He has sold than and gyascomastia. Recall examination shows no sign that the cancer has spread beyond the

BRITISH MEDICAL JOURNAL VOLUME 284 23 JANUARY 1982

ing death certificates, Doctors should be made aware of the coding rules used by the OPCS so that they may more accurately designate what they believe to be the underlying cause of death. Such instruction is best aclieved in undergraduate training, but there is also a need to inform doctors already in practice of these rules.

Conclusions

Ninety-seven general practitioners completed death certificates on 10 case histories. Many different causes of death (as
distinguished by ICD codes) were given for each case history,
ranging from 7 to 26 for each case. When diagnoses were grouped
into broad ICD categories and when the case history concerned
only one organ system, 90°, of doctors agreed on the cause of
death. If more than one organ system was concerned in the case
history, however, less than half of doctors were in agreement.
The percentage of doctors who elected to inform the coroner
also varied widely. We suggest that the practice of death
certification should be improved by teaching students and
informing postgraduates about the need.

We thank Dr Peter Goldblatt of the Office of Population, Cens and Surveys for arranging the coding of the certificates, and the ger practitioners who kindly participated in the survey.

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(Accepted 30 November 1981)

# Pathology of Partnerships

## Partnerships can be fun

CYRIL JOSEPHS

Partnerships and group practices are becoming more and more popular, and single-handed doctors seem to be a dying breed. Nowadays the medical student and young doctor come down squarely on the side of group practice and hardly consider working single-handed or with one partner. I think that this shows a resistance to working under archaic conditions. That family practice as called a "vocation" necessarily implied that the doctor worked for 24 hours a day, 356 days a year, and for little money. Young doctors will not work under such conditions, doctor's work. Many of my beliefs, for which I have fought, have been fulfilled—for instance, abolition of the pool system of payment, acceptance of deputing services, and acknowledgment of the need for a doctor to have leisure time and adequate holidays. I still believe that a doctor should work an eight-hour day and a five-day week. This may come about, but not in my time. There are, of course, many who disagree with me. Some general practitioners pretend that they are still in favour of never being of dusty. I am not against encouraging this view to laymen and the press, especially when I am "proving" how we continue to be overworked and underpaid. But among ourselves I. In return for more time off duty and better holidays and the comradeship and friendliness in one's daily work, working in

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partnership produces problems. Some are hig, some are little, and minor problems can break a partnership as effectively as major ones. Many problems stem from doctors being highly individualistic—a doctor is a loner whether or not he admits it. Notice how fercely he defends his own views, and how quick he is to see the unreliability of other opinions. Financial problems are high on the list—usually because partners do not take the trouble to set everything out clearly at the outset. There should has been known to come part. Few people would huy a house without obtaining the deeds, yet doctors still join partnerships expecting them to be for "life" without written documents setting out all the arrangements.

Money

A common cause of discontent is the earnings that accrue to one doctor for work done outside the practice. Many doctors believe that you should do what you like with your free time and keep whatever you earn in that time. I do not subscribe to this view. I have heard of partnerships suffering smouldering discontent over money problems. The smouldering discontent invariably enury time to the variety of the content tower money problems. The smouldering discontent invariable yentys time over the titles and in many cases a partnership was dissolved. In one case a partner took on night emergency work to increase his income. These fees rapidly rose to equal what her occived as a partner in the group practice. His partners had no legitimate grouse, though understandably they were not delighted that one of them was earning about twice as much as

heavy alcohol intake. An electrocardiographic examination two years ago showed non-specific changes. His blood glucose concentration last year was 9 munol 1 (162 mg/00 mg). Last wock you saw him because he had fallen off a ladder and bit his head after his left leg had suddenly gone week. Emmination at that time showed entirely normal findings except for the odour of alcohol on his breath.

Discussion
As predicted, the more complex case histories had greater numbers of coded "causes of death." When a "patient" died and more than one organ system was affected less than half of the doctors agreed on the underlying cause of death, even after the diagnoses were grouped into broad categories such as "renal disease" or "cerebrowscular disease." The least complicate cases produced only "O", agreement among the general practices produced only "O", agreement among the general practices.

doctors agreed on the underlying cause of death, even after the diagnoses were grouped into broad categories such as "renal disease." or "cerebrovascular disease." The least complicated cases produced only 90", agreement among the general practices are produced only 90", agreement among the general practices. It is a been known for some time that death certificates under-report chronic diseases such as cancer and diabetes mellius. 1" "In case 1, for instance, cancer of the prostate was coded as the underlying cause of death on only 3", of the certificates, and in case 4 diabetes mellius was listed in a similar percentage. For all cases of diabetes mellius was listed in a similar percentage. For all cases of diabetes mellius was listed in a similar percentage. For all cases of diabetes mellius was listed in a similar percentage. For all cases of diabetes mellius was listed in a similar percentage. For all cases of diabetes mellius was listed in a similar percentage, and the underlying cause of death.

In case 0 beat-blocking eye drops may have contributed to the death, but only 5", of doctors mentioned this anywhere on the certificate, for 10 yr. gave an adverse drug effect as the underlying cause. Adverse effects of treatment with stilloestrol or clouding mellin know been concerned in cases 1 and 10, but cause of death on any certificate, though 10 general practitioners mentioned an adverse effect of silloestrol elsewhere on the certificate for case 1. This confirms the widely held belief that adverse drug reactions, whether faltal or not, are scholen recorded.

The rules for informing the coroner are explicit and readily available. "Signatusing diseases such as suicide and alcoholima examples of the case of a death of the case of the

242

everyone else, Good luck to him: he worked for it. But the constant night work resulted in him falling asleep between consulations. I think that the grumbles of the other partners were justified that you have been consulations. I think that the grumbles of the other partners were justified to prove governmented to up.

It believe that the formula for financial peace is to pool all money and divide it equally. The exceptions should be few and limited to money earned from spare-time interests that are unlikely to compete seriously with the normal income. Fees for occasional lectures, radio or TV appearances, or for writing articles or books might be safely exempt from the "pool," provided that these activities are carried out during time of days from the practice. Gip have learned that it is much better for each nember to provide his own trunsport even though this is a necessary expense that arguably could be financed by the partnership. This obviates the need for each partner to laws an identical car to avoid being personally disadvantaged. Tax relief is not lost by a doctor claiming his car as a personal expense. "Keep cars and spouses out of practice matters" is a useful axiom.

Personalities

Many financial problems would never arise if there were no personality clashes between partners. It is too much to expect—and undersirable—that all partners be exactly alike. Matters must be decided in a democratic and friendly way. Usually at least one partners believes that every problem arise because each of his partners "thinks" he is right, while he alone "knows" he is right. There is a little of this in all of us—"I am not always right, but I am never wrong" is an attitude that may start as a cloak and develop into a skin if it is not stotehed early on. I have always been strongly against bouncing children: I am in favour of the occasional bouncing of partners. Done with forth-right honesty it breeds mutual respect—the keystone of a happy partnership.

right honesty it breeds mutual respect—the keystone of a happy partnership.
Holidays are a frequent source of irritation in group practices. The youngest partner should not always be given the least namber of weeks nor the dates that the others do not want. I know of a young partner who proclaimed to his long-suffering wife that the impending retirement of the elder partner meant that at long last he would not be on duty on Christmas day and would actually have some say in when he could take holidays. The days when seniority meant extra holidays have gone, I hope. But the young partner should have this clearly written into his agreement.

agreement.

I have worked single-handed, then with one partner, and later with a large group of six doctors—so I have seen the potential

BRITISI MEDICAL JOURNAL VOLDME 294 23 JANUARY VOLD 
for difficulties in very different situations. Group practice should 
provide enormous advantages. I use the word "should" because 
I suspect that these advantages are easier to state than to affirm.
I said before that the single-handed doctor is in danger of 
extinction. I hope that the breed can be conserved because to 
many of them are robust, happy, dedicated individuals who 
treat their patients well. The frequent associations with colleagues 
in rots systems and emergency relief services (what a battle that 
was have helped to slow his disappearance. He can and does 
enjoy some of the advantages of his colleagues in group practice.

One great advantage of group practice is that one can be decently ill. There is no doubt that several doctors working to the control of the c

To renew the breathings, a frong person may blow his own breath into the patient's mouth with all the force lee can, holding his nothrils at the fame time. When it can be preserved by the rifing of the chest or hely that the longs are filled with air, the person ought to defild from blowing, and flowlid prefs the breatl and hely fo as to expet the art again; and the longs are filled with air, the person ought to defild from blowing, and depending the longs fo as to instant natural reflectation. In the control of the longs of the lon

240

prostate. You diagnose deep vein thrombosis. Next day he is found dead in bed.

65-year-old coalminer has sudden onest of shortness of breath and coughs up blood. He is on a 50°, disability pension from the Procumoconiosi Board. He is mokes 20° cigarette a day and regularly coughs up yellow sputum. He has been discharged from the services with a 15°, pension. On examination he has central cyanosis, right ventricular hypertrophy, and a gallop rhythm. His jugular venous puble is raised 2 cm, and there is dulheas at the right hase. You diagnose cor pulmonale with preumonia and give disretices and authorities. He des in come after off diabetes, has been treated with oral medication. Despite adequate control of her blood sugar concentration she developed diabetic reincingathy and was blind. In 1978 a foot was amputated because of diabetic gangrene. Recently her creati-

Underlying causes of death given by 97 general practitioners on death certificates (number and "...)

Prostate thre		enbous nbolus	Psychosis or senibity	Cerebrovascular accident		Cardine disease
(33)		56 57-7)	35	(5.2)		(3.0
Case 3: 86 d.	Ktors (89",	) would has	e informed the	coroner		
Coalminers' pneumoconiosis		Lung	Other	Cardiac		Not filled in
50 (51-5)		2(2.1)	(22 7)	(21)		21 (21-6)
Case 4: 11 de	ston (II'.	) would has	e informed the	COTOMET		
Respirator disease		abetes	Pulmonary	Renal disease		Not filled in
58 (59·8)		33 34-0)	(1-0)	(31)		(2.1)
Case 6: 73 do	ctors (75°	) would have	e informed the	coroner		
Asthma I	Bronchitis	Cardisc	Drug	Arterio- sclerosis	Diabetes	
(35:0)	(17.5)	(14.4)	(3.0)	30	(3:1)	(23-7)
Case 7: 63 de	cters (66".	) would have	e informed the	coroner*		
Alcoholism alcoholic liv disease	im or Cirrhosis liver or chronic se liver diseas		Duodenal uker	Oesophageal varices		Not filled in
39 (40 6)			(3-1)	(21)		(33.3)
Case 10: 84 a	factors (87	) would be	ny informed ti	he corener		
Cardiac		rovascular cident	Not filled			
29		36	32			

morning he died in bed and was found cutching his saltusanos inbaler. — Al Oyarcald in noh above unemployed for five years oring to severe heumanical sub-thits. He has been drainking at least four bottless of spirits as week. Recently he has been complaining of indigeration. A local physician diagnosed "hepatic derangement" and said that he probably had ecophaged variors and a daudocal ulter. He retases the probability of the separation of the description of the probability of the complaint of the probability of the complaint o