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## PRACTICE OBSERVED

# Practice Research

## Does the underprivileged area index work?

RALPH LEAVEY, IO WOOD

The underprivileged area index was developed by Jarman to identify areas with the greatest need for general practitioner services and where general practitioners were under the greatest pressure. We found that its wards that socred the worst on the underprivileged area index the doctor-patient ratios were the highest. We suggest that the index needs to be used with other indicators to identify variations in need in small areas.

lateroduction

Dectors, nurses, and occasi workers know all too well that working in socially deprived areas is a lot tougher than working elsewhere. Despite this, proposals for positive discrimination in primary health care have mer with little success in the past. One of the difficulties with such proposals has been how to identify deprived areas. To help district health authorities and family practitioner committees to do so, Professor Jarman, a member of the Acheson committee, developed the underprivileged area index. The background to the index, some preliminary results, and a study showing that the "worn" wards identified by the index agenced with five local medical committees precipional of such areas were with long in medical committees precipional of such areas were used in moder appeared in an article in the Health and Social Services found in January 1985:

Before using the index on equestion that district health authorities and family practitioner committees need to ask is: Does it work?

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It is necessary to begin by asking what the index is intended to identify. What exactly is meant by an underprivileged area? In his first paper Jaman explained that the index was a response to the new forecomment of the comment of

where the difficulties are greatest ... with a view to improving where the difficulties are greatest ... with a view to improving the control of the control

Foreign worksoon

There is no supple way of measuring the relative need for general practitioner services or even for primary health care services—that is, general practitioner services together with the community health services provided by health authorities. Any approach nevitably runs into problems of values and obsertors.

In practice the need for general practitioners is determined by a central body, the Medical Practices Committee, in relation to doctor patient ratios. Does the underprivileged are indeed their interesting the properties of the properties of

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question in the absence of any agreement about the specific diamensions on which hospital and community health services are to be judged adequate or inadequate.

Interestingly, in response to a question about which aspects of their work they found frustraint general practitioners in the worst wards were more likely to mension the hospital and community health services as a cause of finitiation than their colleagues deswhere. To this nectate, there is hight support for the belief that the index may help to identify wards where general practitioners; judge the hospital and community health services to be

High ward scores on the underprivileged area undex in general appear to be associated with greater needs for health care, as judged by mortaity, to borth weight, and prevalence of disability. To this extent, our findings are consistent with Charlton and Lakhani's, which showed a relation between high index scores and other measures of need's But, as a means of pinpointing and selecting needy small areas for special attention the index has its limitations.

Furthermore, general practitioners who practise in needy small areas, contrary to popular belief, have smaller lists, see fewer that they feel overworked than their colleagues in other areas. This suggests that before using the underprivileged area index district health authorities and family practitioner committees need to consider carefully what they wish to scheen.

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## Essays on Practice

Essays of up to 1000 words on any aspect of practice are welcome for consideration.

## GP obstetrics: safe but endangered

DAVID IEWELL

General practitioners who are concerned with delivering babies have for some years resembled a primitive tribe. Depleted in numbers, threatened repeatedly with extinction, and continuing to practice their quaint, colourful sidils according to go dol precepts, they have been overtaken by the march of civilisation. Successive government repeats, the drop in finity size, and decisions made to the content of the

More recently a prospective study was done in the John Radcliffe

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tioner care and the results published by the Royal College of General Practitioners: Booking for Maternay Care. A Comparison of Two Systems: Women who were booked for delivery in the consultant and general practitioner units were interested at 8 weeks to be a consultant and general practitioner units were interested at 8 weeks for the properties of the

We now know enough about general practitioner obstetries to answer the question stated above. It has been consistently demon-strated to be as safe as consultant care for women of low obstetric risk. 11 Indeed, the findings of one study that compared data from different areas suggested that it might be safer, and before that argument is dismissed out of hand consider whether being looked after in labour by staff whom women know and trust might have a

	Ward scores			
	Over 30	10-29	0.9	Below !
Average no of patarots on hai	2165	2232	2545	2488
No of general practitioners	66	61	36	17

\*List size ligures are based on general practicioners' estamate of their practice list size. For general practitionners in partnership audividual list sizes were calculated by divisions the total sushiper of partners on the practice lab by the number of partners.

wards that were identified by the index—that is, those with the highest scores—on average had the highest doctor patient rissos (table 1).

Many people, however, have been dissastisted for a long time with this crude appreciate to identifying the population is beath care needs uncer in practice analyses of census data for small areas show that there is more ill beath under the population in the proposition of the proposition who reported being permanently sick or disabled at the time of the 1911 census is unidection of ill beath there was a fairth high correlation between ward scores on the index and each of these indicators (10 84, 0.85; and 10 86 respectively in the time selected family persistancer committee ranked on the index compared with these health indicators. For example, in Manchester the worst 18 wards scored on the index catoded said the 18 wards with the worst 18 wards scored on the index catoded said the 18 wards with the highest proportion of low burtheroight babbes, and as of the 18 wards with the highest proportion of low burtheroight babbes, and as of the 18 wards disabled. Also, the ward with the highest overall standardised mortality ratio (12)21 ranked twentieth in terms of its underprovinged area score where so in the carried of the proposition of the high wards with the indicators and the first wards with the highest overall standardised mortality ratio. (12)21 ranked twentieth in terms of its underprovinged area score where so in the carried of the carried of the proposition is the high as a bab as in the twent would be undertable and the population is health are pose but it needs to be used carrielly at wards were the called of the lock aim is to identify wards with the concern is to identify such assessment in continuous ton the beauth indicators and the results of the lock aim i

Actual workload ... Just at there is no simple way of identifying areas with an above average need for primary care, so there is no simple way to identify areas where general practitioners have high or above average workloads—indeed, this is part of the rationale given for designing the index. Clearly, it is not easy to define what constitutes a general practitionneer's workload flower there is no effect what constitutes a general practitionneer's workload flower the sound of the sound in the amount of time they spend face to face with their patients. Some evidence about this is available from a study conducted by the primary care research unit at Manchester University in 1982. Comparing the patients contact indication for general practitionneer with persentance in indication for general practitionneers in the worst work were under greater pressure no average than their colleagues in the best wards. On the contrary, as each of the patient contact induction in table II down, general practitionneers in the most indication in table II down, general practitionneers in the worst.

Workload industors everage for general practitioners in group	Ward scores				
	Over 10	10-29	0.9	Bek-e (	
Consultation rate over 50 weeks	: **	147	2 %	2.96	
No of patients seen in surgery per week	110	124	120	129	
No of patients seen at home per week	12	19	17	18	
Time spens in surgery per week (b)	14 1	14.6	15.0	15.5	
Time spent on home visits per week h.	30	4.9	4.2	4.5	
Tune spent in surgery and visits h	17.2	19.4	19.3	19-9	
No of essent executioners		61		17	

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not great, and leaving used the question whether high or low rates are desirable, the pattern is a least consistent.

The analysis presented in table II suffers, however, from depending completely on the law of averages. Though averages can tell you something about the volume of patient contict in an arra, they tell wou nothing about the amount of patient contict individual general practitioners have. As table precisioners are also that the production of the amount of patient contict individual general practitioners have a table precisioners within worth with unlain underprovinged area scores were greater than the differences between the averages for wards with different scores.

Workload undicators	Ward scores				
	Over 10	16-29	0.9	Below 0	
Consultation rate per veur					
General practitioner with highest	5.19	6.56	4.5	4   4	
General practitioner with lowest	0.7	1.62	0.6	1.75	
No of patients seen per week in surnery and home					
General practitioner with burbest	232	285	209	222	
General practitioner with lowest	36	- 4	42		
No of hours spens in patient contact surgery and home, per week					
General practitioner with hurbest	36.5	39.5	34.2	40	
General practitioner with lowest	5.6			7.2	

Workload	Ward scores			
	Over 30	10-29	0.9	Below 0
Overworked N				
Very		13	19	18
Moderately	25	40	53	93
Not particularly	50	44		79
No of general practitioners	66	62	4	1-

Two lessons emerge from this. Firstly, if the aim is to identify general practitioners with above average workloads—nodged by the amount of face to face contact with patients—then being not the index will allow many seneral practitioners with heavy workloads to escape notice while propositioners with near workloads to escape notice while propositioners with the above of area in which a general practitioner with the second practition of the propositioner which is a less important influence on the volume of patient contact than has previously been supposed.

Though it in difficult to show conclusively that the index does or does not identify small areas where the population has above average needs for general practitioner care or where general practitioners as a group have above average workloads. It is less difficult to test whether the index dontifies areas where general practitioners believe their workloads are high indeed, jarmans chose to use this approach to validate the index on the basis of a study condicated among members of five local medical committees he concluded that "it may identify underpreviaged areas which have been concluded that "it may identify underpreviaged areas which have been concluded with the opinions of general practitioners in the areas concerned."

concerned."

It was not clear from this study, however, whether the opinions of members of local medical committees agreed or disagreed with those of other general practitioners. The results of a survey conducted in this unit smog all general practitioners in Manchester, Salford, and Trafford family practitioner committee areas in 1814 suggest that general practitioners in the worst wards, on the basis of their scores on the index, may disagree with local medical committee members. As table IV shows, fewer general practitioners in the worst wards than in the best wards, in this survey, claimed that they felt very or moderately overworked.

Finally, does the index identify areas where hospital and community health services are "deficient"? It is not possible, of course, to answer this

measurble effect on outcome. It has also been shown to provide a more acceptable system of antenatal care, "" and now a more personal, equally acceptable system of intenation and the state of the stat

Data or opinion

But before a lot of money and effort go into providing access to integrated general practitioner units for more women there would have to be reasonable confidence that they would be used. Of the 625311 births in England and Wales in 1982, 21023 3 44% took place in general practitioner units and 6944 (1.1%) at home. It seems that many hospital doctors and general practitioner to obtentive as unsafe despite the evidence—an example of a labilit, possibly more widespreads to the control of a lability possibly more widespread to the control of the despite of a lability, possibly more widespreads that there is no other safe way of handling pregnant women.

Other possible reasons for general practitioners that there is no other safe way of handling pregnant women.

Other possible reasons for general practitioners choosing not to undertake intrapartum care can be identified. They may feel that the financial and personal rewards fail to compensate for the disruption to their own private and professional lives. There is some inconsistency about what a general practitioner settally does when attending the delivery. In some units, for instance, the midwide does the delivery in formal, and the hospital staff otherwise. If the general practitioner attends to ensure the health of the baby, should

BRITISH MEDICAL JOURNAL WOLUME 291 14 SEPTEMBER 1985 he or she be trained in resuscitation techniques and regarded more as a practitioner in neonatology than in obsterrics?

Honigsbaum has recently accused general practitioners in Britan of wilfully avoiding contact with hospital doctors. "While this separation persists in obsterrics it prevents general practitioners from practising the skills that would give them a fuller and more satisfying role. One effort to achieve closer integration with hospital doctors showed that it was feasible, but in time it was used by fewer and lewer general practitioners; in another it was difficult to skills fully might mean them taking responsibilities for partners' patients and distillation of general practitioners looking after their patients in district general hospital beds with the help of consultants is already familiar in other countries and could be tested out in other specialities. General practitioners could be responsible for the intrapartum care of many more women than a present. To do so they require appropriate facilities, sympathetic support from both consultants and their own partners, and a different approach towards training. Like other cadangered more them they have been of a useful role in a modern world, not just as pecturesque relies of a bygone age.

## References

100 YEARS AGO

At the last meeting of the Hospitals Association, a paper by Miss Louisa Twining, on the det of nurses in hospitals, mased some old questions, which have decidedly rune in white of late years, in the opinion both of physician and surgeon, they are undertaken, on the whole, by a higher grade of women, and more skilled labour is expected. Many improvements have been made in their condition, and more sterilion has been paid to their bealth; still, we cannot help thinking that, in the improvement of their decity, Miss never be forgetted that what proves, not numedately but ulumately, the most economical must be carefully considered in the management of large charty hospitals, and it would be quite out of the question to remodel a hospital-kinchen because some lades accustioned to the conflort of the upper classes have taken up the bosiness of nursing Bart monosomy of deriv, the food of the nurses, and these certainly do not lead, as a rule, to economy, the decides of the nurses, are not a cheap diet. Much more attracture meah, even at a less

cost, may be made out of soups, fish, malk-puddings, the great variety of chesp available vegreibles, and some of the higher qualities of imported funed meats. It does not need the genius of a Financialite to do this, or the taste of a Brillate Savarin to appreciate it. A Restaurant Duval forms a part of the Eshibistion of Inventions this year; a fast tackow of the reality, no doubt, but sovel in some ways to England, and offering some hints at what is possible with little trouble or expense. And the reason from the many that the superior of the southern than the same of the southern than the southe

(British Medical Journal 1885;i:1166.)