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Twinning rates and social class in Great Britain

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SUMMARY We examined like and unlike sex twinning rates in Great Britain by social class over the period 1974–85. Although twinning rates are believed to have changed over that period, we found no evidence of differential change by social class, suggesting that any factors affecting twinning are widespread in the population.

A secular decline in twinning rates from the early 1950s until the 1970s has been observed almost worldwide, largely confined to dizygotic twinning. In Great Britain, as elsewhere, the dizygotic twinning rate may now have plateaued, with monozygotic twinning stable throughout or latterly increasing. While demographic change may account for part of these trends, the phenomenon is poorly understood. A number of environmental factors have been proposed, including changing patterns of use of ovulatory stimulants and the contraceptive pill and dietary exposures to pesticides or stilboestrol. 1 2 As exposure to these agents may well have varied in different socioeconomic groups, we examined twinning rates in Great Britain, 1974–85, for any evidence of differential changes by social class.

Methods and results

We obtained numbers of like sexed and unlike sexed live and stillborn twins and total confinements 1974–85 for England and Wales from the Office of Population Censuses and Surveys (OPCS) and for Scotland from the General Register Office (GRO(S)). The data were available by father’s social class for legitimate births only in Scotland, but it was possible to include jointly registered illegitimate births as well for England and Wales. This allows a larger number of births to be analysed by social class in a consistent way over a period of time when the rising number of illegitimate births raises important questions of selection bias if they are excluded from social class analysis. 3

The figure shows 1974–85 trends in like sexed, unlike sexed, and total twinning rates for England and Wales by aggregated social class, indirectly standardised for maternal age in each case using the twin rates for 1974–85 as standard. Data for 1981 for England and Wales are not available. There is little evidence of a difference in the trends in twinning rates between the non-manual and manual social classes, though twinning rates are higher in the manual group. Confidence intervals around the regression coefficients for each of the three pairs of time trends confirm this (table). Although not shown here, analysis by less aggregated social class groups (I and II, III, IV and V) showed similar patterns in both England and Wales and Scotland, though with a possibly more pronounced increase in like sexed and total twinning rates in the 1980s in social class III and the combined social classes IV and V particularly in Scotland.

Discussion

Discontinuities in the social class assignment of births because of change in the Registrar General’s classification in 1979 are small, 4 and statistical fluctuations due to small numbers of events will also have been minimised by restricting the analysis to
Twinning rates and social class in Great Britain 273

Figure  Age standardised twin rates in England and Wales, 1974–85, based on legitimate and jointly registered illegitimate births combined, for non-manual (I, II, III∗, — — —) and manual (III†, IV, V, ——) social class groupings.

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References

Resident parents and shorter hospital stay

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SUMMARY A total of 586 admissions for 12 medical conditions were reviewed. The stay of children accompanied by a resident parent was 31% shorter than those whose parents were not resident. Resident parents benefit the emotional well being of the child and increase hospital efficiency; accommodation for parents should therefore be an integral part of a unit admitting children.

The number of resident parents in the National Children's Hospital has risen from nine (accompanying 0-4% of admissions) in 1970 to 1527 (accompanying 38-9% of admissions) in 1987. It is generally recognised that children in hospital benefit from the presence of a living in parent.1 2 The main emphasis has been on the benefit of the child's emotional well being. The importance of the parent in dealing with the adult world of the hospital on the child's behalf has been stressed.2 In addition to these emotional benefits we noted a tendency for children with resident parents to have shorter hospital stays than those whose parents did not live in, but we were unable to find any published record of this observation. We studied the duration of stay of children admitted for a range of medical conditions with and without their parents.

Patients and methods

All admissions to the National Childrens' Hospital for medical conditions over an eight month period were reviewed. Twelve diagnostic categories were selected in which it seemed possible that a parent's ability to manage a convalescent child would result in a reduction in the hospital stay. Only the primary diagnosis was used in selecting patients. The diagnoses used are given in table 1. As a very prolonged stay might discourage parents from living in, children with a stay of more than 14 days were excluded. This reduced the study population by 19. The unpaired t test and the χ² test were used for statistical analysis. As the duration of stay data were skewed a log transformation was used in the analysis.

Resident parents lived in the hospital. Parents who spent the day in hospital but slept elsewhere were not regarded as resident.

ELIGIBILITY GROUPS

The eligibility group gives a measure of the affluence of the family. For the purpose of determining eligibility to health services in the Republic of Ireland patients are assessed according to their family income and social circumstances. The criteria used at the time of this study can be summarised as follows:

Group 1: Unemployed breadwinner; single mother; family income below £90-50 per week (with a £10 allowance for each child under 16 years old). Other social and economic factors are also taken into account.

Group 2: Family income less than £11 000 per annum.

Group 3: Those not falling into groups 1 or 2. Almost all patients in this group were covered by a medical insurance scheme.

Results

A total of 586 admissions were studied; 136 patients were accompanied by a resident parent and had a mean duration of stay of 2-88 days. On 450 admissions a resident parent did not accompany the child and the mean duration of stay was 4-16 days. The difference between these groups was highly significant (table 1). Children of affluent families (group 3) were more likely to be accompanied by a
Twinning rates and social class in Great Britain.

M Murphy and B Botting

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