mented,³ reflecting the reliable bioavailability with this route. Although direct comparison with oral indomethacin has not been undertaken, intravenous indomethacin appears to be at least as well tolerated and should be preferred for the treatment of patent ductus arteriosus.

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Maternal age, illegitimacy, and postneonatal mortality

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Postneonatal mortality is widely used as an indicator of infant health, although positive proof of a correlation is lacking; this variable has the advantage of being consistently recorded nationally. In the first 75 years of this century, when the major registered causes of postneonatal death were infections, postneonatal mortality was regarded as an indicator of associated social conditions. Nowadays the main causes of postneonatal death are the sudden infant death syndrome (43.8%) and congenital anomalies (18.5%); infections of all

kinds now account for only 16.4%, and there is debate over whether some deaths registered as due to respiratory infections may in fact have been due to the sudden infant death syndrome.^{1,4} Congenital anomalies alone show no social gradient. While seeking aetiological mechanisms for differences in postneonatal mortality we examined their relation to maternal age and illegitimacy.

Methods and results

All data were derived from tables compiled by the Office of Population Censuses and Surveys listing postneonatal mortality during 1975-85. The numbers of legitimate and illegitimate live births were obtained from *Fertility Trends* (series FM1) and details on postneonatal mortality from the DH3 series. The figure shows that for all maternal ages beyond 20 the postneonatal mortality among illegitimate babies was consistently higher than that among legitimate babies. For teenage mothers, however, the rates were the same but at the high level seen among illegitimate babies.

Comment

Since Victorian times illegitimate babies have been known to have a reduced chance of survival. Traditional arguments relating to poverty and lack of access to medical care became less relevant with the advent of the welfare state, yet the difference persists. The exact cause is unclear but must lie within the plethora of circumstances classed as social. The rising illegitimacy rate may have contributed to the recent rise in postneonatal mortality in the United Kingdom. Since 1975 there has been a consistent increase (from 9% to 19%) in the proportion of illegitimate live births in England and Wales. Sixty five per cent of all babies born to mothers aged under 20 are now illegitimate. Many of these mothers live in inner cities, and this trend, which does not seem to be related to failure of contraception, may have serious implications for the NHS.

This study found that legitimate babies born to young mothers are also at increased risk of postneonatal death. This finding conflicts with data from a Swedish study of the sudden infant death syndrome,⁵ but the number of married mothers under 20 in that study was small and the incidence of the syndrome in Sweden subsequently rose. The increased risk of postneonatal death among babies of young mothers (married or not) may be due to lack of maternal skills or support; perhaps the educational priorities for teenagers should be reappraised.

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Postneonatal mortality per
1000 live births by maternal age
and legitimacy, 1975-85.
■ — ■ = Illegitimate babies,
○ - - ○ = legitimate babies