Epidemiology of Anorexia Nervosa

The clinical features of anorexia nervosa in both sexes have recently been reviewed in these columns.¹ ² Now R. E. Kendall and colleagues³ have reported new epidemiological data with which they attempt to validate the prevalent views that anorexia nervosa is commoner than average in the middle-class,⁴ rare in negroes,⁵ and increasing in frequency.⁶ ⁷ Their data were obtained from the psychiatric case registers of North-east Scotland,⁸ Camberwell,⁹ and Monroe County in New York State.¹⁰

The North-east Scotland register covers Aberdeen and its environs, with a total population of 473,370 in 1966. In the four-year period 1966-9 30 new cases of anorexia nervosa were registered, 28 female and 2 male. The annual occurrence was 6.4, 7, and 13. Their mean age was 24.7 years, and the median age was 20-3 years. This gave an average annual incidence of 1.6 per 100,000 population and a sex-age specific rate for the 27 females aged 15-34 years of 10.8 per 100,000. According to parental social class a greater proportion of patients were in the Registrar General's social classes 2 and 3 than were the other cases on the register, but the proportion was the same as in the general population of the area.

The Monroe County register covers the city of Rochester and its environs in New York State, with a total population of 586,000 in 1960 rising to 712,000 in 1970, of which 25,000 are reported to be non white. During the decade 1960-9 24 cases of anorexia nervosa were recorded of whom 17 were female and 7 male. The cases in successive years were: 3, 0, 1, 2, 3, 3, 0, 3, and 6. Their mean age was 22.2 years and median age between 15 and 19, with no significant difference in age between the sexes and no non-white patients. The average annual incidence was 0.37 per 100,000 population, but the sex-age specific rate for females aged 15-34 years was 0.8 per 100,000. Social class data were not recorded.

The Camberwell register covers an area in South-east London with a population of 172,000, of whom 10,000 are coloured immigrants. From the start of the register in 1965 up to 1971 eight patients with anorexia nervosa were recorded, all female, with a mean age of 21.6 years. None was reported in the first four years; there were 2 in 1969 and 1970 and 4 in 1971. The average annual incidence was 0.66 per 100,000 population and the sex-age specific rate for females aged 15-34 years was 4.1 per 100,000. Five of these patients had parents in social classes 1 or 2, which was a highly significant excess over other register patients and the general population. One patient was of Indian origin.

These observations can be compared with those of S. Theander,¹¹ in Sweden, who calculated an average annual incidence over a 30-year period of 0.24 per 100,000 population, but in the final decade the figures rose to 0.45 per 100,000.

It can be seen that there was a fourfold difference in average annual incidence and a more than tenfold difference in sex-age specific annual incidence between North-east Scotland and Monroe County, with Camberwell occupying an intermediate position, but these variations seem unlikely to be due to genuine differences in incidence. Kendall and colleagues readily admit the possibility of divergent diagnostic criteria and inconsistent referral of cases to psychiatrists and are consequently cautious in their conclusions.

Only the Camberwell series showed a definite class bias. In each area the numbers of registered cases of anorexia nervosa increased over the years of the study. This could be an artefact, as it may take some years from the start of a register for it to reach a satisfactory level of reliability and completeness.¹² But the findings of Theander¹³ over a much longer period suggest that anorexia nervosa may be truly on the increase. At any rate this study is more than merely an illustration of the pitfalls of psychiatric case registers, since it provides data on the epidemiology of anorexia nervosa for future comparisons when these and other registers have been in operation over a longer period.