Annotations

Psychological aspects of hemiplegia

Do paediatricians think of childhood hemiplegia simply as a mild physical disability? Rightly or wrongly, parents often get that impression. This is unfortunate as children and families are easier to help when they know that their difficulties are not being underestimated. The disability does not seem mild to hemiplegic children who are always last on sports day, or self conscious about their body, or unable to carry out all manner of mundane two handed activities. Furthermore, hemiplegia is often more than a physical problem, being accompanied by a variety of 'invisible' psychological disabilities. Particularly in the school years, many parents and children are more concerned about the educational, behavioural, emotional, and social accompaniments of hemiplegia than about the physical disability itself. Some of these psychological accompaniments are understandable responses to disability; others are direct consequences of the brain damage itself; and many reflect the complex interplay of these reactive and organic pathways.

Cognitive difficulties

Though approximately two thirds of children with hemiplegia are of normal intelligence, the mean IQ of the group is shifted downwards, most markedly for those with the greatest neurological involvement. Hemiplegias acquired between 1 and 60 months of age may be particularly liable to reduce overall intelligence, perhaps because this is a peak period for synaptic creation and remodelling. Many IQ tests distinguish between verbal IQ, based on tests of verbal reasoning, and performance IQ, based on puzzles and other non-verbal reasoning tests. The ability of children with hemiplegia is usually best judged from their verbal IQ. Performance IQ is often 10 or more points lower, partly because hemiplegic children are disadvantaged by tests that require two handed skill, and partly because the developing brain's response to damage—whether to the left or the right hemisphere—seems to be to preserve language skills at some cost to visuospatial skills. This is fortunate as most scholastic skills depend more on verbal than visuospatial abilities—though the specific visuospatial difficulties do sometimes cause problems in areas such as map reading, geometry, or electronics.

Even when intelligence has been taken into account, children with hemiplegia are more liable to specific learning difficulties affecting reading, spelling, or arithmetic. The recognition and treatment of specific learning difficulties is important for any child, but is particularly important for a child who will eventually need to seek a non-manual job because physical disabilities preclude manual employment.

Emotional and behavioural problems

Roughly half of all children with hemiplegia have psychiatric disorders—that is, problems with behaviour, emotions, or relationships that interfere markedly with the child's everyday life, cause substantial distress for the child, or result in considerable disruption for others. The commonest presenting features are irritability, anxiety, and hyperactivity/inattention—all of which seem more related to the underlying brain damage than to the child's environment. Irritability usually goes along with marked temper tantrums and lack of compliance with adult requests. Although these children may be aggressive when provoked, they rarely show a 'delinquent' pattern of deliberate aggression and antisocial behaviour. Anxiety may show itself in generalised worrying, excessive fear of separations, marked shyness, or specific phobias. Severe and persistent misery is relatively uncommon and often seems to be related to school stresses: placement in the wrong sort of school, unrecognised special needs, or victimisation.

In a society where children's misbehaviour is normally attributed to parental mishandling, it is not surprising that parents often blame themselves or feel blamed by others if their hemiplegic children develop emotional or behavioural problems. In most cases, however, family factors seem less important than biological and school factors. When family stress is associated with psychological problems in the child, it is often the child's problems that are driving the family stress rather than vice versa. Even when the child's behaviour is worse at home than at school, this does not necessarily point to family factors. Some children are well behaved at school despite teasing or insufficient academic support, but then vent their pent-up rage and distress on family members after school—improvement during school holidays is a helpful pointer.

Parents and professionals often assume that the psychological consequences of static brain disorders are particularly resistant to any sort of treatment. The underlying logic seems to be that as the brain damage is permanent, and as the psychological consequences stem from the brain...
Preventative strategies on meningococcal disease

The dramatic occurrence of meningococcal disease challenges doctors and attracts intense public interest. It is treatable and preventable, so every death raises the question: Could this have been avoided? Last winter’s experience of clusters in schools was the latest round in a challenge... doctors and attracts intense public interest. It is treatable and preventable, so every death raises the question: Could this have been avoided? Last winter’s occurrence of meningococcal disease... and antibiotics for prophylaxis and treatment, public awareness, and education of doctors and parents. The epidemiology of meningococcal infection is fundamental to any preventive strategy. The incidence in the UK is 2.5–3 cases/100 000/year, 1200 to 2000 cases, with exact numbers depending on case definitions and the year in question. The age specific annual incidence peaks at 6 months of age (50–60/100 000), falls to 2/100 000 at age 10 years, rises slightly to 5/100 000 in teenagers, and then falls to 1/100 000 in adults. Meningococcal disease illustrates the two purposes of notification: to start public health action and to have statistics on incidence. The consultant in communicable disease control must be notified, to ensure... meningococcal disease is within two to 10 days of contact. If illness does not occur, the exposed person who is colonised acquires immunity but becomes a possible source of infection to others who are exposed to his or her respiratory droplets.