Community paediatrics in crisis

M Mather

Primary care trusts are advertising; is anyone listening?

To the armchair pundit, advertisements are always a useful antidote to the soporific parts of the scientific journal or television programme. Brief, dramatic, witty, or sentimental, they painlessly separate us from our hard earned cash. Advertising for new consultants is less sophisticated, subtle, or humorous, remaining largely reliant on “glorious countryside and local good schools” which are apparently endemic in all corners of the British Isles. However, the study of consultant advertisements can be illuminating and should be introduced to all junior doctors as a special study module, since they give invaluable information about how commissioners propose to invest scarce resources on local children. Have paediatricians read the subliminal messages?

Every year, over 300 substantive consultant posts in paediatrics are advertised in the British Medical Journal. For the past five years, approximately 40% have been for community, neurodisability, or ambulatory posts. No other paediatric specialty gets remotely close to this figure. In second and third place are acute general paediatrics and neonatology. The number of consultant posts in paediatrics is less sophisticated, subtle, or ambulatory. A specialist registrar with statements of special educational needs, including 250 000 children with special educational needs.

At least 250 000 children live with a parent who has a serious drug problem. Ten per cent of children aged 11–15 are regular smokers, 24% have tried alcohol, 12% cannabis, 4% stimulants, 1% opiates, and 35% have been offered drugs. The prevalence rate for problematic psychological conditions in childhood is 20%, increasing to 68% in deprived areas.

Non-acute, non-hospital work is growing rapidly. Increasing numbers of low birth weight babies survive. There are more children with disability, more affected by abuse and neglect, more behaviour problems, more school exclusions, and a growing public demand from parents desperate to see “a specialist”.

WHERE ARE THE DOCTORS WHO WILL CARE FOR CHILDREN OUTSIDE HOSPITALS?

If recruits are the life blood of a service, then community paediatric services are terminally ill. In 2002, the British Association of Community Child Health (BACCH) tried to identify the number of specialist registrars in training for community posts. Of approximately 1000 national training numbers (NTNs) in England and Wales, only 88 were identified as training in community. All these doctors were written to twice to try to identify how many actually intended to become community paediatricians. Only 38 specialist registrars responded with firm intentions of pursuing a community career.

WHY IS COMMUNITY WORK SO UNPOPULAR?

Community paediatrics is in crisis for a number of reasons. There is widespread disinterest in the major child health issues affecting UK children. Professional kudos is still reserved for paediatricians treating rare diseases in small numbers of children.

Community activity is rarely recognised in official statistics or waiting lists. Community services rarely have sophisticated monitoring systems, waiting list managers, or even accurate referral data. It is often forgotten that in addition to general practitioners; parents, teachers, therapists, and social workers refer children directly to community paediatricians. This uncounted work, which bypasses the commissioners, counts locally against community services in an era dominated by resources attached to waiting lists and targets.

Outside child development centres, facilities in the community are generally poor. Children are often seen without nurses, background information, or equipment, in rooms without toys or space to play. Problems providing high quality secondary and tertiary community services are often exacerbated by difficulties in accessing hospital facilities, test results, or medical records.

The skills needed to provide good care outside a protected hospital environment are not taught at either medical school or in postgraduate training. The unexpected complexity of the work, particularly when a doctor is unsupported, can lead to isolation and vulnerability. A specialist registrar with outstanding qualifications and clinical skills described running a clinic on a deprived estate as the “most terrifying thing” she had ever done.

THE SOFT OPTION IS NO LONGER SOFT

The first paediatricians were community doctors employed in schools and infant welfare clinics run by local authorities, at the end of the nineteenth century. Adult physicians on adult wards saw acutely ill children. Acute paediatrics as a specialty began with the formation of the British Paediatric Association in 1928, but only really became established after the Second World War.

In 1989, when the first edition of Health for all children was published, our team of 16 community doctors saw every child at 6 weeks, 8 months, 24 months, 39 months, 5 years, 7 years, and 11 years. The routine examination of 14 year olds had just stopped despite protests from parents, teachers, and school nurses. Three editions and 14 years later, paediatric work in the community work has changed beyond recognition. The old, detects, detecting, universal, medical model of child health no longer exists. Community paediatrics is now secondary or even tertiary level work that is both consultant led and consultant delivered.
This change has accelerated as the political climate has changed. The government committed to reducing inequalities proposes substantial investments in early years, child mental health, and education. The National Service Framework for Children (NSF) and Children’s Trusts are on the horizon. Beleaguered, shrinking community services are expected to deliver the bulk of these initiatives. Most consultants now have in-trays several inches high, full of long awaited government directives but no staff to put them into place.

Medical support to social services has increased with the introduction of designated and named doctors for child protection and for looked after children. The statutory Framework for the assessment of children in need requires the holistic medical assessment of children with complex social problems. Every district needs a senior doctor responsible for educational needs. There are increased district needs a senior doctor responsible for educational needs. There are increased numbers of health assessments on looked after children and new targets in adoption.

Vaccination rates, especially MMR uptake, are dependent on experienced immunisation coordinators working with primary care teams. New national campaigns like meningitis C and Hib have been implemented, and new vaccinations and new screening programmes are waiting to come on stream.

Every primary care trust must offer a full range of services for children with disability from diagnosis to school leaving age. Mental health resources are scare. In their absence, community paediatricians largely manage the complex emotional and behavioural problems of disabled children, together with attention deficit hyperactivity disorder and the autistic spectrum disorders. Audiology, enuresis, and encopresis clinics, small but invaluable community services, have serious recruitment problems. The work is fascinating, challenging, never dull, and can only be delivered by experienced doctors willing to work long hours in a complex multidisciplinary and multi-agency environment.

THE FUTURE
In 1963, another doctor, Dr Beeching looked at rail services in the United Kingdom. Rarely used branch lines were ruthlessly pruned and only large, cost effective, busy main lines survived. Where branch lines survived, communities flourished; where they no longer existed, communities were condemned to progressive isolation as petrol became more expensive. Forty years later, after global warming, spiralling oil prices, and the development of energy, efficient trains, this short-sighted rationalisation is seen in a new light. Without the basic infrastructure a holistic twenty first century transport policy is difficult to develop.

Sadly, British community child health has undergone a “Dr Beeching” rationalisation. The complex network of community services, the branch lines that would allow new service development, have disappeared and will not be easy to replace. Successive generations of managers saw little point in retaining services not on a priority “must do” list that were perceived as unimportant or could be undertaken in primary care.

Our team of 16 doctors is now reduced to seven and our specialist registrar was withdrawn. Six doctors will retire within five years. We retain our enthusiasm and commitment and continue a campaign of hopeless advertising, but there are vacant community consultant posts in every surrounding local district. Appointment committees mainly interview existing consultants, thus transferring vacancies to other districts.

A recent BACCH document estimates that the average district population of 250 000–300 000 requires a minimum of 4.6 whole time equivalent (wte) consultant community paediatricians to provide good enough care and fulfil all the statutory obligations on the service. Disadvantaged populations with higher rates of disability and social need will require more than this minimum. In addition to consultants, all community child health services are still heavily dependent on non-consultant, career grade paediatricians, and workforce estimates also show a rapid decline in the numbers of these doctors. As career grade numbers decline, services will need to be maintained by the creation of new consultant or associate specialist posts, and there are virtually no doctors in training. Urgent action is required.

The distinction between the acute and community paediatricians needs to disappear. Both are consultants delivering secondary care; both need access to facilities that will help them to fulfil their roles. The future must also see hospital paediatricians spending significantly more time in the community.

Training in community child health needs to be systematically increased. Enthusiastic well resourced departments have a much greater success rate in attracting scarce specialist registrars. All undergraduates need basic training in disability, child protection, child mental health, and the impact of deprivation. The time devoted to community training for general practitioner registrars, senior house officers, and specialist registrars needs to increase considerably. Doctors in training need more than knowledge. The competency to manage a problem is gained not in the minimum six month community placement currently recommended but by years of experience. Change must therefore occur while there are sufficient numbers of enthusiastic community paediatricians with the time to teach, mentor, and support young doctors while they develop their skills.

Specialist registrar “ologists” must know how to access educational and social provision for their patients and families. Children will survive and go to school for many years after the initial investigation and diagnosis. A child’s prognosis and quality of life depends as much on social support for their parents and educational provision as on diagnostic acumen or surgical skill.

Most radical of all, perhaps the time has come for national training numbers to be allocated on the basis of what British children need rather than the career aspirations of paediatricians. We are after all spending public money. Practically this would mean at least 40% of NTNs being reserved for paediatricians intending to work largely in the community.

The beginning of the NSF for children states clearly that hospital care is no more important to children than other health services. Indeed for most children, most of the time, hospitals are thankfully irrelevant. Hospitals and presumably paediatricians cannot continue to stand apart from the rest of the health and social care system. Our children are much too valuable.

Arch Dis Child 2004;89:697–699.
doi: 10.1136/adc.2003.038950

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Rickets

Is nutritional rickets returning?

J Allgrove

See original article by Ladhani et al (pp 781–4)

Mineralisation of osteoid tissue of bone is dependent on a suitable supply of mineral, both calcium and phosphate, to that tissue. Failure to provide sufficient mineral results in osteomalacia which, in growing bone with its attendant growth plates and unfused epiphyses, is manifest as rickets. Although vitamin D deficiency is not the only cause of rickets (nutritional calcium deficiency has also recently been proposed as an important factor), it has historically been a major cause of morbidity.

Vitamin D is mainly derived from the action of sunlight on 7-dehydrocholesterol in the skin, and vitamin D deficiency is more likely to occur in individuals with darker skins or in those whose skin is extensively covered. Vitamin D is converted via two enzymatic reactions to the active metabolite, 1,25-dihydroxyvitamin D (1,25-(OH)2D), whose principal actions are to stimulate absorption of calcium by the gut and promote mineralisation of bone. Failure to do so adequately may therefore result in osteomalacia and rickets; it also limits peak bone mass and contributes to involutional osteoporosis. Vitamin D deficiency in pregnant mothers also limits fetal growth. In addition, vitamin D may have an important part to play in preventing other diseases such as hypertension, various cancers, and type 1 diabetes.

Rickets is not a new disease. It was first described by an English physician, Dr Daniel Whistler, in 1645, although it is known to have existed well before that. It has long been recognised that lack of exposure to adequate amounts of sunlight was a major cause of vitamin D deficiency rickets which, following the industrial revolution, became a significant cause of morbidity especially in the urbanised cities of the north of England and Scotland. As the causes of so-called “nutritional” rickets became better understood, and particularly following the second world war when the privations of food rationing necessitated a closer examination of minimal nutritional requirements, nutritional rickets virtually disappeared in the UK, particularly with the introduction of vitamin D supplementation in the form of cod or halibut liver oil and the fortification of foods.

Rickets is a relatively rare condition in western societies and, when it presents, is often associated with some form of metabolic disturbance of vitamin D metabolism, which may be primary (for example, vitamin D dependent rickets type 1, an inborn error of metabolism of vitamin D; or vitamin D dependent rickets type 2, end organ resistance to the action of vitamin D) or secondary (for example, associated with liver or kidney disease), or a defect in renal tubular function (for example, hypophosphataemic vitamin D resistance rickets). However, over the past few years several reports have appeared which have suggested that nutritional rickets is reappearing in the UK and Europe,13-20 and North America in a variety of ethnic groups. Other reports have suggested, perhaps surprisingly, that rickets is also prevalent in sunnier climes,13-27 although here it seems that malnutrition may be a contributing factor in some instances.

Most, though not all, of the nutritional rickets that occurs in the UK is seen in patients of black or Asian origin and it is well recognised that the darker skin colour of these ethnic groups is a contributing factor to the high incidence of nutritional vitamin D deficiency. Darker skinned individuals are just as capable as those with lighter skins of synthesising vitamin D, but require greater exposure to ultraviolet light to do so. Other factors, such as nutritional deficiency associated with macrobiotic,22 vegetarian,16-37 strict vegan,38 or “health food” milk alternatives39 diets, and low exposure to sunlight, either by staying indoors or covering the skin are also important.40 Breast milk contains little vitamin D and breast fed infants should receive vitamin D supplements.41 Vitamin D deficiency classically presents with symptoms of bony deformity such as bowed legs, swelling of the wrists, a “rickety rosary”, and muscle weakness. If the rickets is severe enough, fractures may ensue42 and may simulate child abuse.43 However, a significant proportion of these patients have symptoms of hypocalcaemia which may cause convulsions, stridor, and neuromuscular irritability.44-48 In addition, surveys of at risk populations have shown that a significant proportion have subclinical vitamin D deficiency.49 Radiological evidence of rickets is not always present in these patients49 and this can lead to diagnostic confusion, such as with hypoparathyroidism or pseudohypoparathyroidism, unless the possibility of vitamin D deficiency is considered.45 For instance, we describe in this issue 65 cases of vitamin D deficiency in northeast and southeast London.46 Forty five per cent (n = 29) of these had hyppocalcaemic symptoms, of whom 55% (n = 17), more than a quarter of the total, had no radiological evidence of rickets. These patients were all either under the age of 2 years or in adolescence and we speculate that this is because growth is most rapid at these ages when demand for calcium by bone is so high that hypocalcaemia develops before rickets can ensue. Vitamin D deficiency must therefore always be excluded before the cause of hypocalcaemia can be defined.

Treatment of vitamin D deficiency is usually straightforward and consists of oral supplementation with vitamin D. Shaw and Pal recommend 3000 units daily for infants under 6 months and 6000 units for older children. We have found that half this dose is sufficient. However, we have also seen a number of infants who have presented with vitamin D deficiency despite being fed with formula milk preparations, which are fortified with vitamin D, or who have been given vitamin supplements in recommended amounts (400 units daily). It seems that the mothers of these infants are also vitamin D deficient14 16 51 and that, while 400 units daily of vitamin D is sufficient to prevent deficiency in replete individuals, this may be insufficient to correct deficiency if this is already present at birth. Nevertheless, oral supplementation with vitamin D is an effective way.
of both preventing and treating vitamin D deficiency.

An alternative, equally effective, treatment strategy is to use stosstherapy, a single large dose of vitamin D (300 000 to 600 000 units) as a single dose given either orally or parenterally. This is particularly useful if there are concerns about compliance with treatment. Alphacalcidol, a synthetic analogue of vitamin D which is converted to 1,25-(OH)_{2}D, has no part to play in the treatment of nutritional vitamin D deficiency as large doses have to be given initially to mimic the supraphysiological rise in 1,25-(OH)_{2}D which occurs naturally at the start of treatment with vitamin D. Not only does a poor response often result from the use of “physiological” doses, but it also does not address the underlying issue of vitamin D deficiency. If hypocalcaemia is the presenting symptom, initial treatment with calcium supplementation, by intravenous infusion if necessary, will be required, and oral calcium supplements in addition to vitamin D increases the rate of recovery.

Nutritional rickets has always been with us but, following the recognition of its principal cause, was largely eradicated in Western society. Large scale immigration from the West Indies and Indian subcontinent resulted in its reappearance, but systematic campaigns of vitamin D supplementation, such as the Glasgow Rickets Campaign of the 1970s, were successful in reducing its incidence. The initial phase of this, a campaign of voluntary free supplementation accompanied by a health education programme aimed mainly at community health workers and the Asian community, was successful in reducing the number of admissions to hospital with symptoms of vitamin D deficiency, which had been increasing before 1973. In 1979 an official campaign was launched to supplement all children at risk, and this produced a significant reduction in hospital admissions with rickets.

However, there is now good evidence to suggest that, since such campaigns have been relaxed, a third wave resurgence of vitamin D deficiency is now being seen. Some of this increase may be related to the recognition that vitamin D deficiency may cause problems other than rickets but it is, nevertheless, a serious indictment of community services that this is happening while it is known of the long term effects of vitamin D deficiency on bone development, but it is probably one of the factors which contributes to “involuntary” osteoporosis in later life. In addition, vitamin D deficiency may have an important part to play in other diseases of adults. Since this is a common condition with a high morbidity, it is incumbent on us as paediatricians to try to minimise it as much as possible.

There is good agreement that vitamin D deficiency can be prevented by dietary supplementation, but there is disagreement about how much should be given to which individuals. The American Association of Pediatrics has recently recommended that a reduced dose of 200 units be given to all infants, children, and adolescents. In the UK the Department of Health recommends 400 units for pregnant and lactating women, 340 units for infants under 6 months, and 280 units for children under 4 years. No recommendations are given for older children, but the importance of ensuring that vulnerable groups—that is, infants, young children, and pregnant women from Asian families as well as young African-Caribbean children being reared on strict exclusion diets, receive these supplements is stressed. In practice, both of the vitamin preparations that are available free of charge in the UK provide adequate amounts of vitamin D and can be provided by general practitioners and health visitors. There is probably no place for universal vitamin D supplementation because of the potential dangers of hypercalcaemia in a few individuals.

It seems, therefore, that nutritional rickets is not returning, but has always continued to be with us. It is increasing in frequency again, partly because it is being recognised in its different manifestations but mainly because vitamin D supplementation is no longer regarded as essential for “at risk” individuals. It is almost certainly the case that the clinically apparent cases of vitamin D deficiency represent the “tip of the iceberg”. Unfortunately, this is one iceberg which, despite global warming and the attendant increase in sunshine, is not diminishing in size. The time has come to mount a national campaign to promote awareness of the risks of vitamin D deficiency, particularly among susceptible populations in the UK, and to eliminate it as a cause of morbidity.

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Substance abuse

Substance abuse by children and young people

P McArdle

A contemporary disease

Use of illicit substances by significant numbers of young people has been of concern for at least a generation in Western Europe and North America. This is reflected in official statistics, police sources and surveys, and particularly school based official statistics, police sources and surveys, and particularly school based


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...failure to fulfil major role obligations at work, school or home... recurrent... legal problems (and) repeated substance use despite having persistent or recurrent social or interpersonal problems caused or exacerbated by the effects of the substance...
so while engaged in sports. The authors used the term “problem use” for this behaviour which is “intrinsically problematic from a developmental perspective”. This is consistent with UK data from older adolescents and young adults among whom 40% of those who acknowledged drug use in the past year reported dependence.1 Hence, the widespread view that much drug use by youth is experimental or to be regarded as part of a normal social repertoire is probably misleading.

The Health Advisory Service further discussed distinctions between use and “misuse”, the latter incorporating “problem use”; and pointed out that “use” may be best confined to “use of alcohol safely (and) … experimental use” of illicit drugs in the older adolescent. A cautious view may be that any use of illicit substances, and perhaps alcohol without adult sanction, in younger adolescents or children is potentially problematic and should be referred to as “misuse” which therefore includes substance use disorders, abuse, and problem use.

Cannabis is the most widely misused illicit substance by Western youth.2 It may be more potent than in the past and is currently often consumed in very high daily doses.3 Consequently, cannabis can potentially lead to dependence,4 the use of other substances,5 and physical consequences.6 In the short term, perhaps as long as 30 days post-consumption, there is evidence of dose related impaired cognitive performance, particularly evident among the less intellectually advantaged.7 In the longer term there is accumulating evidence of a dose related risk of schizophrenia that among drugs of abuse may be specific to cannabis.8

Other health related consequences of substance misuse include sexual disinhibition and teenage pregnancy,9 deliberate self harm (by 5–10% of boys and approximately 25% of girls who “use drugs” or drink heavily10) and death.11 Hence, the widespread view that much drug use by youth is experimental or to be regarded as part of a normal social repertoire is probably misleading.

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More specific social correlates include parent-child conflict, child physical and sexual abuse,12 family breakdown,13 and in relation to school, scholastic failure and estrangement from teachers.14 These experiences are linked with lasting distress15 and can interfere with trusting and supportive attachments to adults. They also predict affiliation with networks of deviant peers16 who introduce them to and supply them with illicit substances. This is not the same “peer pressure” but describes a developmental trajectory that is said to “shape” a child’s social development towards deviant peers and to distance them from adults. Similar issues arise for youth who are identifiable administratively (homeless youth, those accommodated by the local authority, or involved with crime) rather than clinically as at high risk of substance abuse.17

A complementary viewpoint emerges from consideration of the links between substance abuse and conduct problems or disorder, “a repetitive and persistent pattern of dissocial, aggressive, or defiant conduct”. Conduct problems have been subclassified as “adolescent limited” and “life-span persistent”.18 If “life-span persistent” or early onset, disturbed behaviour may be apparent from preschool years, linked with a range of neurodevelopmental vulnerabilities, learning disabilities, impairments in capacity to form social relationships and perhaps in motor development, as well as symptoms of attention deficit hyperactivity disorder that are likely to be substantially genetic.20 In keeping with often difficult lives, many of these children experience considerable suffering manifest in anxiety and depressive symptoms.21 It is likely that most children referred to paediatricians with more severe behavioural problems fall into this early onset group. The combination of this type of individual vulnerability, other psychosocial adversity, association with deviant peers, and high availability of drugs virtually ensures substance use and presents a potent risk for abuse. However, this risk may be reduced by appropriate early intervention including, where appropriate, stimulant medication as part of a package of interventions.

To intervene effectively does not necessarily require elaborate new skills or retraining, but often requires thoughtful adaptation of existing skills; structured opportunities for reflection, familiarisation, and initially supervised practice, depending on the degree of special interest. Currently, training at different levels is under development by the National Treatment Agency and UK Royal Colleges.22 A view of competence that may be appropriate for all doctors who regularly treat older children or adolescents envisages adequate history taking, accurate information and advice, and appropriate referral. An adequate history encompasses details not only of the presenting complaint and exploration of substances used but also of the developmental and environmental, including educational...
and social context of the individual. This form of systems review should seek to establish: some degree of rapport with a perhaps sceptical, mistrustful young person; who is caring for them and whether that person is able to function as a parent; whether the local authority is discharging its responsibility to educate them; whether there is evidence of child abuse, developmental problems, or mental disturbance; and who their peers are. In addition, details of their consumption of substances need to be elicited, confirmed if possible by hair, saliva, or urinalysis. In particular, is there evidence of dependence or particular risk through pregnancy or parenteral administration? If these data are gathered, it is likely that for many it will be the first time that anyone has asked. Furthermore, they present a framework for further action and advocacy for the patient’s wellbeing. Even brief interventions that are characterised by a good assessment, accurate information, and advice to reduce consumption, probably in the context of good rapport rather than a lecture, can be surprisingly effective in reduction of substance misuse by adults. Modified by additional involvement of parents and pointers to relevant local statutory and voluntary agencies, this approach could form the basis of a good consultation at this level. It might be particularly relevant to, for instance, general practice, community paediatrics, and accident and emergency departments.

At a second level of expertise, suggesting an interest in adolescent medicine, there may be scope for more elaborate intervention. This might involve energetic and sustained attention to engaging and working with young people and families and to liaison with or mobilisation of other agencies (for example, schools, child protection or family support agencies, juvenile justice) to reduce harm, and promote good care, normal development, and health. Evidence from recent trials suggests that such a package can ameliorate substance misuse and associated comorbidity. Even retaining young people in contact with services may be helpful, perhaps by being on hand when a therapeutic opportunity arises, or through reducing isolation or desperation.

It may also be necessary to facilitate withdrawal from addictive drugs and in a small number to prescribe substitute agents, bearing in mind that doctors are responsible for “good clinical care” and should never be persuaded to become a mere prescribing service. The narrow therapeutic index of some of the available agents might point to such a provision beginning as a joint consultation with an adult addictions service, perhaps with a view to the emergence of a specialist level of expertise, “paediatric addiction medicine”. It is not suggested that large numbers of such specialists are likely to emerge. However,essional commitments and leadership from interested paediatricians, in partnership with others including child psychologists, would undoubtedly enrich the competence and rigour in the field as a whole and raise standards of care.

For the moment, substance misuse and its associated morbidity remain unfamiliar to many health practitioners who may be tempted to view it as (merely) a social problem. It is true that substance misuse is determined by cultural, social, as well as intrinsic factors (including personal choice) and it is common. Nevertheless, this is also true of many familiar health problems that in earlier generations have established themselves as unequivocally the business of health services. Indeed, it may be possible to argue that substance use disorder should be regarded as a contemporary disease of youth. This is not necessarily “medicalising” but a call for medical professionals to be conceptually somewhat less exclusively and in a narrow sense, “bio-”, and more holistically “medical”, and to engage with the sometimes fatal predication of a great number of young people in difficulties in our own cities and neighbourhoods. It is also an entreaty to research funders to invest in ways that are maximally relevant to youth. Finally, substance misuse presents an opportunity: for medicine and other health care professions to demonstrate that they remain interested in, relevant to, and competent for the health needs of modern youth.


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Accepted 5 December 2003

IMAGES IN PAEDIATRICS

Crossed fused ectopic left kidney

A 5 year old boy was referred to our paediatric ward with fever, headache, and vomiting. Clinical examination elicited tenderness over both flanks and a renal ultrasound was performed. A mass extending over the midline compatible with the diagnosis of a crossed fused ectopic left kidney was noted (arrows, fig 1). A technetium-DMSA scan revealed a normally located and sized right kidney with small horizontal left kidney connected to its lower pole (arrows, fig 2). Renal SPECT showed absorption of 20% in the right and 5% in the left kidney.

A crossed fused renal ectopia is an entity where one kidney crosses over to the other side and the parenchyma of the two kidneys fuse. In most cases it involves the left kidney, as in our patient. Renal function is usually normal. Other anomalies associated with this condition are the VACTER syndrome, hydronephrosis, annular pancreas, and multicystic dysplasia. Most cases are sporadic but dominant inheritance has been reported.

Acknowledgement

We would like to thank Dr S A Loria for providing us with the 1970–2000 issues of Archives of Disease in Childhood, allowing us to post them online as part of our digitising project.