Co-morbidity associated with fabricated illness (Munchausen syndrome by proxy)

C N Bools, B A Neale, S R Meadow

Abstract
Fifty six children who had been victims of fabricated illnesses and 82 of their 103 siblings were studied. In addition to the index fabrication, 64% of index children had had other illnesses fabricated by their mothers. Twenty nine per cent of the index children had a history of failure to thrive and 29% a history of non-accidental injury, inappropriate medication, or neglect. Seventy three per cent of the index children had been affected by at least one of these additional problems.

Eleven per cent of the siblings had died in early childhood, the cause of death not being identified. Thirty nine per cent of siblings themselves had had illnesses fabricated by their mothers, and 17% had been affected by either failure to thrive, non-accidental injury, inappropriate medication, or neglect.

First in 1977, and then subsequently, one of the authors (SRM) used the term Munchausen syndrome by proxy to describe cases in which a parent, invariably the mother, fabricated illness in her child or children and presented the problem to doctors. Since that time, the number of reported cases has increased steadily, so that in 1987 a review considered 117 cases. In that meta-analysis Rosenberg reported associated problems for the index child, including physical abuse in 1% and failure to thrive in 14%. Unusual deaths of siblings, and probable fabricated illnesses in other siblings, were mentioned but could not be assessed accurately because of the limitations of meta-analysis. Our experience is that this 'co-morbidity' of index children and siblings may be considerably more prevalent. We believe that the best way to assess this is by the systematic study of the original case records of a series of affected children and their siblings.

Patients and methods
We reviewed a large number of cases of Munchausen syndrome by proxy which had been identified over a 13 year period from 1976 to 1988. This was possible because one of the authors (SRM) had been consulted, by professional colleagues, about cases from many parts of the UK. The cases met the following four criteria modified from Rosenberg and Meadow: 1

1. Illness in a child is fabricated by a parent, or someone who is in loco parentis.
2. The child is presented for medical assessment and care, usually persistently, often resulting in multiple medical procedures.
3. The perpetrator denies the aetiology of the child's illness.
4. Acute symptoms and signs of illness cease when the child is separated from the perpetrator (almost always the mother). HOSPITAL CASE NOTES

Hospital case notes of index children were examined for evidence of failure to thrive, non-accidental injury, inappropriate medication, neglect and fabricated illness, before or at the same time as the identification of the index fabrications. Failure to thrive was recorded when this had been identified in the notes, or when there was evidence that the child had significant problems gaining weight which improved on hospital admission or other change of environment. Non-accidental injury was recorded when this had been decided by a case conference or appeared to be the most probable explanation of injuries in the light of an extended history of each child. Where possible the case notes of all siblings in each family were examined similarly. The circumstances of any deaths were examined. In many cases the general practitioner's notes were also examined. The case notes were examined also for continuing problems after the time of the index fabrication. The latter information was collected for a follow up study which will be published separately.

Initially 62 families were selected from about 100 families in which a child had suffered from the effects of a fabricated illness. They were selected on the basis of their recent address being known and availability for the study (including the fact that we believed we had, or could obtain, comprehensive medical records relating to the index child and siblings). During the course of the investigation it became apparent that we had insufficient information on six families, and therefore this part of the study was limited to 56 families.

Results

TYPES OF FABRICATION

The 56 families were grouped according to the most serious variety of fabrication for the index child in each family. The resulting four groups (smothering, poisoning, seizures, and miscellaneous) are shown in table 1.

For the smothered group (15 children; eight boys) the usual story given by the mother was that the child had stopped breathing and went blue (cyanotic/apnoea attacks) or had been smothered during sleep. The period over which the suffocations occurred ranged from 1-47 months (median 9 months). The number of episodes of suffocation for each child ranged from 2-400. The median age at discovery was 15 months.
The poisonings (15 children; eight boys) were carried out with a variety of substances: common salt, salt + hypnotic, lactic acid, phenobarbitone, phenytoin, promethazine, ‘Campden tablets’ (sodium metabisulphite), amitriptyline, imipramine, lorazepam + imipramine + Milk of Magnesia, diazepam + De-Nol + aspirin. The children were usually presented to doctors with drowsiness or were said to have had a fit. In one case laxative administration either maintained or caused diarrhoea. The age of the children at the recognition of the poisoning ranged from 7 months–8 years. Two index children died from the poisonings. Additionally 11 other children (including siblings), classified here in other groups, had received medication. In some cases this had been oversedation by the mother, in other cases young children had taken medicines, not prescribed for them, in larae doses. For a number of these ‘overdoses’, hospital admission notes recorded the ingestions as ‘accidental’. In hindsight some of these ingestions were probably not accidental.

The 14 children (seven boys) in the third group had stories of seizures fabricated by their mothers, in some cases over many years, leading to extensive inappropriate medication for epilepsy. However, at the time of the discovery, there was no evidence that the mothers had caused direct physical harm to their child.

The 12 children (four boys) in the ‘miscellaneous group’ had a variety of fabrications imposed on them. These included haematemesis, haematuria, haemoptysis, urinary tract infection, glycosuria, pyrexia (by altering a temperature chart), vomiting, food allergy, and cancer. In two cases skin rashes were directly caused by abrasion.

## Discussion

Some of the cases reported here have been reported in the literature, most commonly as single case reports, and some were probably included in Rosenberg’s comprehensive litera-

### Table 1 Co-morbidity for 56 index children: the problems before recognition of the index fabrication

<table>
<thead>
<tr>
<th>Variety of Munchausen syndrome by proxy</th>
<th>No of index children</th>
<th>Problem</th>
<th>Total No affected by problem</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Failure to thrive</td>
<td>Non-accidental injury, neglected, or medicated</td>
</tr>
<tr>
<td>Smothering</td>
<td>15</td>
<td>5</td>
<td>2 (2)</td>
</tr>
<tr>
<td>Poisoning</td>
<td>15</td>
<td>6</td>
<td>3 (1)</td>
</tr>
<tr>
<td>Seizures</td>
<td>14</td>
<td>4</td>
<td>1 (4)</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>12</td>
<td>4</td>
<td>7 (3)</td>
</tr>
<tr>
<td>Totals</td>
<td>56</td>
<td>16</td>
<td>16 (7)</td>
</tr>
</tbody>
</table>

Figures in parentheses refer to children also affected by failure to thrive (previous column). 'Other fabrications' refers to symptoms or illnesses in addition to the index fabrication.

### Table 2 Morbidity and mortality for 103 siblings from 43 families

<table>
<thead>
<tr>
<th>Variety of Munchausen syndrome by proxy</th>
<th>Incomplete data</th>
<th>Total No of siblings</th>
<th>Victims of Munchausen syndrome by proxy</th>
<th>Failure to thrive, non-accidental injury, neglected, or medicated</th>
<th>Died of uncertain cause</th>
<th>Total No affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smothering</td>
<td>0</td>
<td>25 (12)</td>
<td>12 (8)</td>
<td>4 (3)</td>
<td>8 (6)</td>
<td>14 (9)</td>
</tr>
<tr>
<td>Poisoning</td>
<td>0</td>
<td>26 (12)</td>
<td>8 (6)</td>
<td>5 (4)</td>
<td>3 (3)</td>
<td>10 (8)</td>
</tr>
<tr>
<td>Seizures</td>
<td>0</td>
<td>30 (11)</td>
<td>15 (8)</td>
<td>4 (2)</td>
<td>0</td>
<td>15 (8)</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>11</td>
<td>22 (8)</td>
<td>5 (4)</td>
<td>5 (4)</td>
<td>0</td>
<td>5 (4)</td>
</tr>
<tr>
<td>Totals</td>
<td>21</td>
<td>103 (43)</td>
<td>40 (26)</td>
<td>18 (13)</td>
<td>11 (9)</td>
<td>44 (29)</td>
</tr>
</tbody>
</table>

Figures in parentheses refer to number of families.
ture review of 117 cases.3 We believe this to be the first systematic study, using original case records, to look at the co-morbidity of victims of fabricated illness and their siblings in a consecutive series of families referred to one centre. Failure to thrive (29%) and non-accidental injury (18%) were significant associated problems, as were inappropriate medication and neglect. The increased mortality of siblings has been noted before3-8 and is confirmed by our study for siblings of smothered and poisoned index children. Most siblings do not die but it is alarming that 39% were victims of fabricated illnesses themselves and a substantial proportion were also affected by failure to thrive, non-accidental injury, inappropriate medication, and neglect.

The high morbidity rates may reflect the severity of abuse represented by the index cases. Most fabricated illness involves the mother merely inventing an illness story for the child, without resorting to direct physical action herself. It is relevant that more than half of the index children in this study had suffered from the direct actions of their mothers (by suffocation, poisoning, or skin abrasion) as well as invented false illness stories. It is likely that the under-reporting of co-morbidity in previous reports results partly from the problems not being sought systematically, particularly in siblings, and also from the difficulties in obtaining original case records, including the general practitioners’ files. In relation to failure to thrive it should be recognised that in some cases the nature of the fabrication caused the chronic ill health, while in others it seemed to be a separate problem, predating the fabrication.

In this study we have identified specific problems before or at the same time as the identified fabricated illness. We have not specifically addressed the issue of emotional abuse which is difficult to identify and describe, especially retrospectively.9 Other authors have described the psychological morbidity of the victims of the Munchausen syndrome by proxy in a number of children.10 Continuing problems, including new fabrications or other new abuse, as well as emotional or behavioural disturbance in these children are the subject of a separate study.

The high morbidity rates for the siblings almost certainly are an underestimate, particularly as we were unable to obtain full data concerning one fifth of the siblings. Moreover, a number of the siblings, mostly those later in birth order, had been protected by legal orders or were not living with their mothers at the time of our study and so were at reduced risk of abuse. For all these reasons the figures for associated morbidity in the index children and for morbidity in the siblings should be considered as a minimum.

The implications for the management not only of the index children in cases of fabricated illness, but also of the siblings, are clear. In a family where this behaviour has occurred, the risk to all children in the family, of a variety of abuses and neglect, is high. Therefore the relevant professionals, usually the paediatrician, a social worker, and a child psychiatrist, should carry out a detailed assessment, in conjunction with the general practitioner and health visitor, of all the children and the parenting behaviours of mother and father.11-13 In order to ensure the safety, and normal physical and emotional development of the children, if they remain in the family, professional involvement will usually be necessary until they are adult and usually will need to be on a statutory basis.

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