Psychosocial adjustment in preschool children with atopic eczema

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Abstract

Atopic eczema is a chronic skin disorder that is most common in early childhood, an important stage in the child's social and emotional development. The psychiatric adjustment and mother-child attachment in 30 preschool children with severe atopic eczema was compared with 20 matched controls. Patients with eczema had a significant increase in behaviour symptoms, 7/30 (23%) v 1/20 (5%); with significant excess of dependency/clingingness, 15/30 (50%) v 2/20 (10%); fearfulness, 12/30 (40%) v 2/20 (10%); and sleep difficulty, 19/30 (63%) v 9/20 (45%), but there was no significant difference between the two groups in the security of attachments, 25/29 (86%) v 14/20 (70%). Significantly fewer mothers of children with atopic eczema were in outside employment, 8/29 (27%) v 13/20 (65%), or felt supported socially, 10/29 (34%) v 13/20 (65%). Significantly more of them, 9/30 (30%) v 1/20 (5%), felt particularly stressed in relation to their parenting and less efficient in their disciplining of the affected child. In spite of this and at variance with earlier reports in the literature, they did not display negative attitudes towards their child. On the contrary mothers had a positive empathetic attitude towards the child, 7/14 (50%) v 2/16 (12%). Child behaviour problems, 7/14 (50%) v 2/16 (12%), and maternal distress, 12/14 (85%) v 5/16 (31%), were significantly more common in the more severely affected children. Minor behaviour problems and parenting distress are important features of severe atopic eczema in early childhood but atopic eczema does not lead to insecurity of the mother-child attachment.

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Atopic eczema is a common skin disorder of early childhood affecting about 10% of all children. In the majority of children the condition is mild but in a small number it can be severe and distressing for both the child and the parents.

The main symptom of atopic eczema is scratching which damages the skin, often causes bleeding, and irritates onlookers. Extra care, such as distraction, parental rubbing, or the use of cotton on tubular bandage are required to minimise skin damage. Further supervision is required for the frequent application of topical treatment and the avoidance of trigger factors such as foods, pets, woollen clothes, soap, and enzyme containing washing powder. Families may be restricted when eating in restaurants or going on holiday, and parents describe a general burden of extra care. Children may be restricted in mixing with their peers, going to parties, or sleeping at friends' houses and are often cruelly teased by the use of unpleasant nicknames. Additional disadvantages include short stature and the use of bandages. Atopic eczema is particularly common in young children under 5 years of age. It is therefore at its most prevalent and troublesome at an important time for the child's emotional and social development. There has, however, been very little research into the psychiatric adjustment of young children with eczema. Early psychodynamic writings emphasised the relationship problems that were often seen as part of the condition. The key emotional conflict was seen as a hostile dependent relationship with the mother and the situation was described as a continuous 'battle of wills' between a tired, irritable, overwrought, poorly sleeping mother, and an anxious, insecure child with many fears and much wilful, aggressive behaviour. In older children a clinical impression has been that atopic eczema lowers self image, self esteem and confidence, particularly at times of life when the individual would normally be beginning to socialise.

Recent community based surveys of large samples of children have shown an association between atopic eczema and fearfulness and sleeping problems. As with other chronic conditions of childhood, it is likely that fearfulness and other problems are more handicapping in the most severely affected children but there has been no systematic work to examine the way in which severe eczema affects young children's social development and psychiatric adjustment or parental coping. A better understanding of these factors is important because it is probable that psychosocial aspects are of relevance in the handling of the atopic eczema itself. There are indications that stress may exacerbate symptoms of atopic eczema, and that styles of family interaction are linked to symptomatology in the child, and that troubling symptoms such as scratching can be predicted from parental responses, and respond to behavioural treatments with consequent improvement on the atopic eczema itself. Observational case studies have been reported where treatments aimed at improving the parent-child relationship have resulted in improvements in both skin and behavioural symptoms.

We have compared children with atopic
Ecze
dma with a matched control sample of healthy children and used standardised instruments to measure the psychiatric and social adjustment of the children, the styles of parenting and family stress, and looked at associations between severity of the eczema and the psychosocial variables.

**Patients and methods**

The study was carried out between January 1989 and February 1990. All patients were attending the department of child health at Booth Hall Children’s Hospital. To exclude very mild cases we studied only those children in whom at the time of the first attendance at hospital the eczema affected at least 10% of the skin surface area, and in whom the eczema warranted outpatient hospital attendance every three months. The parents of all children aged 18–48 months who met the criteria were invited to participate in the study. A total of 36 subjects were eligible and the parents of 30 agreed to take part.

A control group of 20 children matched for age, sex, socioeconomic status and parental marital state, were selected for this study. None of the children had any chronic physical disorder. An attempt was made to control for maternal working status, but it proved difficult to find families where the mother did not go out to work (see results). It was not possible to find a control sample from any single source because of the need to match for various characteristics. The controls came from a local community health clinic and a day nursery, and of 27 mothers who were approached, 20 (74%) agreed to take part in the study. The main demographic features in the eczema and control group are given in table 1.

All interviews and assessments were performed by LRD. The child’s psychiatric adjustment was assessed from interviews with the mothers using the behaviour screening questionnaire. This is a standardised semi-structured interview that explores 12 areas of problem behaviours and has been found to be valid and reliable to assess behavioural disturbance in 3 year olds. The presence and severity of symptoms in each area are scored and summed up to give a total score. In 3 year olds a score of 10 or more indicates a high risk for psychiatric disturbance. The scoring needed to be modified for this study because of the inclusion of younger children for whom two items (soiling and worries) were removed. Accordingly the global score for the younger children was adjusted to a cut off point of 9. For the older children the recommended cut off point of 10 was used. The validity of these pass scores was ascertained by comparing them with psychiatric assessment, based on global clinical ratings made by the interviewer based on the interview information from both groups. Our revised cut off point gave a sensitivity of 71% and a specificity of 86%.

We used the Ainsworth strange situation procedure to assess the security of attachment as a measure of social development. The procedure has been extensively used in a variety of conditions and age groups to assess the quality of mother–child attachment. For this study the three episode version of the procedure was used. Videotaped interviews were taken of the strange situation and ratings made on interactive behaviours, which includes proximity seeking, contact maintaining, avoidance, resistance and distance interaction. On the basis of the assessments, children were classified into securely and insecurely avoidant or insecurely ambivalent. The reliability of our attachment ratings was examined by comparing the assessments of two observers (LRD and MEG). There was complete agreement for 10 randomly selected children as to the security of attachment. When children were subdivided to insecurely avoidant and insecurely ambivalent, the agreement between the two observers was 90%.

In addition to the classification of children into securely and insecurely attached, we used the attachment situation to devise further scores to assess in a qualitative way the extent of the efforts made by the child and his/her mother to keep in physical contact as we called this, the ‘contact keeping score’. This was done by adding up the scores of proximity seeking and contact maintaining behaviour and subtracting from it the score of avoidant and resistant behaviour. We also recorded the time the children spent in direct physical contact with their mothers.

We developed a parenting evaluation interview based on previous instruments. This was a semistructured interview based on six areas of daily activities (eating, sleeping, supervision and play, attention seeking behaviour, temper and naughtiness, and crying). We asked questions to evaluate styles and attitudes of parenting and scored the answers in the following domains: supervision; regularity of care; positive styles of discipline such as encouraging, persuading, or comforting; negative style of discipline such as shouting, threatening, punishing, and giving in to the child’s demands; effectiveness of discipline; maternal distress experienced; maternal tiredness/fed up; positive comments expressed during the interview; negative comments expressed during the interview and overall warmth expressed during the interview.

We devised the ‘quality of parenting’ score by comparing the individual scores of each.
variable with the median score for that variable from the control data. We allocated one point
everywhere when the median differed from the median in a
direction indicating poorer parenting (for
example more shouting or less encouraging) so
that a 'quality of parenting' score ranging
between 0 to 10 was calculated for each
subject. We arbitrarily interpreted scores 0 to 5
as representing a good quality of parenting and
6 to 10 as representing poor quality of
parenting. The reliability of these assessments
were examined by test-retest interviews which
were carried out within 4–6 weeks in 10
subjects. We examined the agreement for good
and poor parenting from the two tests, and the
resulting agreement in terms of the final sub-
division of parenting into good and poor was
80%.

Current stresses and supports for the
parents in a number of psycho-social areas
(occupation, finance, housing, marriage, social
life, and children) were assessed with the social
stress and support interview. Current mental
distress in mothers was assessed using the
general health questionnaire. We also asked
mothers to indicate whether they thought their
children could be described temperamentally as
generally difficult or easy. We asked mothers
whether they regarded their child as easily
upset or placid, as affectionate or not, as
regular or irregular, as easily adaptable or not,
and as usually happy or unhappy. A develop-
mental assessment of the child was carried out
using the Denver developmental screening
test. Details of the atopic eczema and its
impact on the family were collected from the
interviews with the mothers. The parents'
occupation was recorded and used to deter-
mine social class, as defined by the registrar
general. Mothers were asked whether they felt
they had had to give up a lot for their
child's sake, whether their relationship with
their husband/other children or their family life
had been altered, and whether their own out-
side interests had been altered by their child's
atopic eczema.

Results
Although at the time of the first visit to out-
patients all children had been severely affected
by eczema, by the time of the study 14/30
(46%) had over 10% skin area affected by
eczema. In the rest the surface area affected had
fallen to less than 10%. The redness of the skin
lesions was severe in 2/30 (6%) of children, moderate in 8/30 (26%), and mild in 20/30
(67%). Half the children had been admitted to
hospital at some point during their illness, and
3/30 (10%) had been admitted more than
twice. Fifteen children were on some dietary
restrictions and another 3/30 (10%) had
received an elemental diet. Twenty-four children
were receiving tripletrazine tartrate at bedtime
as a sedative, and another child received it also
during the day. In answer to the question 'How
severe the problem was...', the atopic eczema
was regarded by mothers as a severe problem in
15 children, a moderate problem in 12, and a
minimal problem in three.

The results of the behavioural screening
questionnaire are shown in table 2. Children
with atopic eczema had more psychopathology
as shown by statistically significant higher
questionnaire total scores. In addition, three
times as many atopic eczema children as
controls scored above the cut off points for dis-
turbance (that is high questionnaire scores)
and more were rated as behaviourally dis-
turbed on the clinical assessment by the
interviewer. The latter was not statistically
significant. Of those disturbed, 6/30 (20%)
were mild and 1/30 (3%) was severe. The
severity rating was based on the frequency and
duration of the problem behaviour as well as
the amount of suffering apparent within the
child, the degree to which it affected relation-
ships with adults and children, and the child's
ability for play and independence.

Details of the psychiatric symptomatolody
are shown in table 3. In children with atopic
eczema the most striking behavioural distur-
bance was clinginess and dependency (that is
children who were upset if left and took some
time to get over it). However, this was not
severe in intensity and only one child showed
marked clinginess. Attention seeking behav-
avour was common in both groups but tended to
be more severe in the atopic eczema group.
'Mild' fearfulis was more commonly
reported in the atopic eczema group and was
statistically significant. This indicated that a
child was somewhat afraid or uncertain about
approaching at least 3–5 feared objects/persons
and requiring reassurance or that he/she was
markedly frightened of 1–2 objects/persons.
Twenty five out of 30 (83%) children in the
atopic eczema group who had problems in this
area had at least one marked fear. The most
common fears were of strangers 6/30 (20%),
doctors 6/30 (20%), of bath or water and of
loud noise 5/30 (16%). Sleep problems (that is
waking at night) three times a week or more
were twice as common in the eczema group.

<table>
<thead>
<tr>
<th>Table 2</th>
<th>Behavioural screening questionnaire: age adapted</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Atopic eczema (n=30)</td>
</tr>
<tr>
<td>Mean (SD) scores*</td>
<td>7.4 (3.5)</td>
</tr>
<tr>
<td>No (% with high scores</td>
<td>9 (30)</td>
</tr>
<tr>
<td>No (% clinical 'cases'†</td>
<td>7 (23)</td>
</tr>
</tbody>
</table>

* By t test, p=0.01. †Fisher's exact test, p=0.08.
For clinical case definition see text.

Table 3 Child psychiatric adjustment using the
behavioural screening questionnaire: symptomatology;
figures are number (%)

|         | Atopic eczema (n=30) | Controls (n=20) |
|---------|-----------------------------------------------|
| Clingy/dependent* | 14 (46) | 2 (10) |
| Mild | 1 (3) | 0 |
| Marked | 17 (56) | 12 (60) |
| Attention seeking | 10 (33) | 3 (15) |
| Mild | 12 (46) | 2 (10) |
| Marked | 4 | 4 |
| Sleep waking at night | 15 (50) | 5 (25) |

*p<0.05; †p<0.05.
Psychosocial adjustment in preschool children with atopic eczema

Table 4 Attachment (Ainsworth situation)

<table>
<thead>
<tr>
<th>Attachment (No (%))</th>
<th>Atopic eczema (n=29)</th>
<th>Controls (n=20)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secure</td>
<td>25 (86)</td>
<td>14 (70)</td>
</tr>
<tr>
<td>Insecure</td>
<td>4 (13)</td>
<td>6 (30)</td>
</tr>
<tr>
<td>‘Contact keeping’ score</td>
<td>3-7 (4-3)</td>
<td>1-8 (4-3)</td>
</tr>
<tr>
<td>Mean (SD)</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Median</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time in contact (sec)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Episode 1: preseparation</td>
<td>17-1 (34-4)</td>
<td>8.5 (18)</td>
</tr>
<tr>
<td>Mean (SD)</td>
<td>28</td>
<td>23</td>
</tr>
<tr>
<td>Median</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Episode 3: reunion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mean (SD)</td>
<td>47.8 (50)</td>
<td>28.9 (40)</td>
</tr>
<tr>
<td>Median</td>
<td>20</td>
<td>16</td>
</tr>
<tr>
<td>All 3 min in contact (No (%))</td>
<td>6 (20)</td>
<td>1 (5)</td>
</tr>
</tbody>
</table>

Definition of time in contact for episode 1 and 3, see text.

Children with atopic eczema did not have statistically significant greater problems in terms of other behavioural disturbance such as sleeping in the parents’ bed, eating problems, difficulties with activity and concentration, tantrums and manageability, mood changes, nor in relationships with siblings and peers.

The mothers’ views on the children’s usual behavioural styles were in keeping with the symptom descriptions given in the behavioural screening questionnaire. Significantly more mothers of children with atopic eczema described them as generally difficult (20%) and none of the controls (Fisher’s exact test, p=0.05). The only temperament subcategory where eczema children were regarded differently from controls was in adaptability: 13/30 (43%) vs 2/30 (10%) of controls were seen as poorly adaptable (Fisher’s exact test, p<0.05).

There was no significant difference between the two groups in the developmental assessment, with 24/28 (85%) of these with atopic eczema and 17/20 (85%) children in the control group scoring as within the normal range on the Denver developmental screening test.

ATTACHMENT RATINGS

The data collected from one atopic eczema case was incomplete as the family moved out of the area. Ratings made on the basis of the Ainsworth attachment situation are shown in table 4. There was no statistical significance between the groups. Children with atopic eczema scored higher on the contact keeping score with the mother and they spent more time in physical contact with her both in the preseparation (episode 1) and reunion (episode 3), but there was wide variation in these scores as shown by the higher standard deviations and the difference failed to reach statistical significance. Six of 29 (20%) of the children with atopic eczema spent the three minutes assessment period during the reunion episode in direct physical contact with the mother as opposed to only 1/20 (5%) of the control group, but this finding was not statistically significant ($\chi^2=4.98, df=2, p=0.08$).

MATERIAL STRESS AND PARENTING

Levels of current mental distress in the parents as measured by scores on the general health questionnaire showed higher distress scores in the eczema group and more mothers with scores above the cut off point (see table 5). However, this difference was not statistically significant (Fisher’s exact test, p=0.08). We also investigated current psychosocial stress and support for the mothers at the time of assessment by comparing the two groups on the scores from the social stress and support interview (see table 5). There were statistically significant differences between the two groups in the global stress levels reported, with nearly twice as many mothers in the eczema group reporting being highly stressed. When we examined the individual areas of psychosocial stress, only stress related to the index child differentiated the two groups, with more mothers feeling highly stressed about their child with atopic eczema: 15/29 (51%) compared with 4/20 (20%) of the control group. Although the two groups were comparable for total levels of psychosocial support, there were differences in the two groups in the support derived from social life; more mothers in the eczema group, 19/29 (65%) compared with 7/20 (35%) of the control group, indicated lower levels of support in this area (Fisher’s exact test, p=0.05).

The parenting evaluation interview identified differences in the global quality of parenting between the two groups. A higher score meant poorer parenting. Table 6 shows that mothers in the eczema group had statistically significantly poorer parenting mean scores. This did not indicate differences in the care provided, which was judged to be adequate in

Table 5 Maternal stress measured by social stress and support interview (SSSI) and general health questionnaire (GHQ); figures are number (%) except for GHQ scores

<table>
<thead>
<tr>
<th></th>
<th>Atopic eczema (n=29)</th>
<th>Controls (n=20)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSSI high psychosocial stress*</td>
<td>17 (58)</td>
<td>6 (30)</td>
</tr>
<tr>
<td>Highly stressed about child*</td>
<td>15 (51)</td>
<td>4 (20)</td>
</tr>
<tr>
<td>SSSI low support in social life</td>
<td>19 (65)</td>
<td>7 (35)</td>
</tr>
<tr>
<td>Mean (SD)</td>
<td>2.6 (4.2)</td>
<td>0.5 (1.5)</td>
</tr>
<tr>
<td>GHQ scores</td>
<td>6 (24)</td>
<td>1 (5)</td>
</tr>
</tbody>
</table>

*Fisher’s exact test, p<0.05.

Table 6 Parenting scores

<table>
<thead>
<tr>
<th></th>
<th>Atopic eczema (n=29)</th>
<th>Controls (n=20)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global quality*</td>
<td>3.9 (1.8)</td>
<td>2.8 (2)</td>
</tr>
<tr>
<td>Good quality†</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td>Poor quality</td>
<td>13</td>
<td>9</td>
</tr>
<tr>
<td>Supervision (No (%))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adequate</td>
<td>23 (76)</td>
<td>16 (80)</td>
</tr>
<tr>
<td>Regularity (No (%))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adequate</td>
<td>29 (96)</td>
<td>17 (85)</td>
</tr>
<tr>
<td>Discipline effectiveness (No (%))</td>
<td>19 (63)</td>
<td>17 (85)</td>
</tr>
<tr>
<td>Mean (SD)‡</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mean (SD) scores for discipline style</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distract/comfort</td>
<td>2.5 (2.4)</td>
<td>1.6 (2.6)</td>
</tr>
<tr>
<td>Show/threaten</td>
<td>6.3 (2.2)</td>
<td>5.4 (2.0)</td>
</tr>
<tr>
<td>Give in*</td>
<td>4.5 (1.9)</td>
<td>4.7 (1.7)</td>
</tr>
<tr>
<td>Persuade</td>
<td>4.3 (2.1)</td>
<td>3.8 (1.7)</td>
</tr>
<tr>
<td>Ignore</td>
<td>3.1 (2.0)</td>
<td>2.7 (1.7)</td>
</tr>
<tr>
<td>Punish</td>
<td>2.0 (1.5)</td>
<td>1.7 (1.4)</td>
</tr>
</tbody>
</table>

*By r test, p<0.05.
†Fisher’s exact test, p<0.05.
‡Mann-Whitney U, p<0.05.
Table 7 Maternal attitude towards index child (questionnaire); figures are number (%)

<table>
<thead>
<tr>
<th></th>
<th>Atopic eczema (n=25)</th>
<th>Controls (n=20)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stressed/strained*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mild</td>
<td>12 (48)</td>
<td>2 (10)</td>
</tr>
<tr>
<td>Marked</td>
<td>4 (16)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Felt sorry for child*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mild</td>
<td>11 (44)</td>
<td>1 (5)</td>
</tr>
<tr>
<td>Marked</td>
<td>9 (36)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accepting the child</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mild</td>
<td>1 (4)</td>
<td>1 (5)</td>
</tr>
<tr>
<td>Marked</td>
<td>24 (96)</td>
<td>12 (60)</td>
</tr>
</tbody>
</table>

Mild = some of the time; marked = most of the time.

*p<0.05, df=2.

Table 7 shows that, although significantly more mothers of children with atopic eczema reported being stressed about the child, they also reported empathic feelings in the sense of feeling sorry for the child and the level of acceptance was comparable with that of controls. Moreover, these mothers failed to report disagreement with their spouses in terms of handling and punishment any more than mothers of the control group.

The areas of parenting which led to mothers of children with atopic eczema reporting high levels of distress were feeding the child, 7/30 (23%) v 0/20 in the control group, and attention seeking behaviour, 6/30 (20%) v 0/20 (Fisher's exact test, p<0.05). There were no differences between the mothers of children with atopic and controls in the distress experienced over supervision of the child, his/her play, naughtiness and tempering, crying, or sleeping.

Twenty out of 30 (66%) of the mothers felt that the atopic eczema had had an influence on their marriage and this effect was more likely to be negative 13/30 (43%) than positive 6/30 (20%), or mixed 3/30 (10%). Most mothers 26/30 (86%) reported an effect on family life, usually detrimental 25/30 (83%), and 20/30 (66%) felt it had had a substantial effect on their parenting of the child.

ASPECTS OF ILLNESS AND PSYCHOSOCIAL ADJUSTMENT

We considered whether the severity of the condition was associated with risk for child and family disturbance and found a link between severity of the eczema at the time of assessment and both child psychiatric morbidity and maternal distress. Seven out of 14 (50%) of the children severely affected (10% or more surface area) with eczema had behavioural screening questionnaire scores above cut off points, indicating psychiatric morbidity, as opposed to 2/16 (12.5%) of the less severely affected children, a statistically significant difference (x²=5, df=1, p<0.05 before Yates's correction) or (x²=3.37, df=1, p=0.05 after Yates's correction). Similarly, high maternal distress (the overall stress experienced in different areas of their lives) as defined in the social stress and support interview was reported by 12/14 (85%) of the severely affected children, but only 5/16 (31%) of the less severely affected children, a difference which was statistically significant (x²=6.93, df=1, p<0.01).

Because of the clinical importance of scratching and its social implications, we examined whether it was related to psychosocial morbidity. We compared the 15 children where scratching was regarded by mothers as a severe problem with the other 15 children with atopic eczema. No statistical significant associations were found with child morbidity nor with levels of maternal distress. Mothers of children where scratching was a problem reported more giving in in their disciplining of the children, and this was not statistically significant.

Discussion

Our results show a statistical significant excess of child behavioural problems, family disruption, and stressed parenting in children with atopic eczema that was sufficiently severe to warrant regular clinic attendance. However, the majority of children with eczema were well adjusted psychiatrically, and we failed to confirm previously reported negative maternal attitudes towards the child or insecure attachments. The higher social classes (that is parents with professional and intermediate occupations) were over represented in our study, and this could have reduced the likelihood of finding behavioural problems in the children and negative attitudes of the mothers.

About a third of the children with eczema had behaviour screening questionnaire scores above morbidity levels, a statistically significantly higher rate than in controls or in general population samples. The frequency of disturbance in children with eczema was comparable with those in other severe chronic

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**Note:** The text is a summary of a research article discussing the impact of atopic eczema on children and their families, focusing on maternal attitudes, behavioral screening, and psychosocial adjustment. The table and discussion focus on the statistical significance of various factors related to the condition and its effects on family life and child behavior.
Psychosocial adjustment in preschool children with atopic eczema

physical problems of childhood. Thus atopic eczema is a risk factor for the development of behaviour problems in children, and our data reinforce the importance of taking into account the severity of a physical illness when assessing the psychopathology associated with childhood illness.

We failed to confirm earlier clinical impressions of an association between atopic eczema and irritable and aggressive behaviour. The psychological symptoms found to be in excess in the eczema group were rather in the area of dependency, fearfulness, and wakefulness. These symptoms were similar to the psychological features that were previously found to be associated with atopic eczema in a community sample.

In contrast, the behavioural symptoms that are most prevalent in 3 year olds in community studies and that predict continuation of difficulties into later childhood, are of a quite different nature. They are most notably features of over activity, attention seeking, disobeisience, and being generally difficult to manage. This fact plus our finding that most disorders in children with eczema in our sample were mild in nature, and that their presence was related to the severity of the eczema itself, indicates that the emotional disturbance in most children with atopic eczema is not likely to be severe, and is likely to be temporary, and is closely related to the physical state.

Our results show that family life and parenting were markedly disrupted by having a child with eczema. Parents commonly reported feeling highly stressed in relation to parenting their ill child. Mothers were less frequently in outside employment and they reported less support from their social life, most notably the fact that friends were unwilling or frightened to babysit for them and that they had few if any friends. The strain and practical demands of the child's condition thus had an adverse effect on the parental social functioning.

The decreased social activity by mothers may in turn adversely affect their parenting. The paediatric team may be able to assist in this area by becoming aware of any existing strains and by considering ways of helping mothers increase their satisfaction with social contacts, perhaps by promoting parenting groups where mothers can derive support from each other.

In spite of these strains mothers of patients did not differ from control mothers in important aspects of parenting such as the provision of adequate supervision and regularity, nor, and at variance with earlier reports in the literature, did they display negative attitudes towards their child. In fact they showed empathic feelings towards them and maternal stress was much more prevalent than childhood behavioural problems, indicating that mothers were able to contain their distress and provide appropriately for the needs of the child. This indicates that more likely than not parents were providing the sensitive responding and 'emotional availability' which is necessary for the development of secure attachments in the child. This was further supported by the finding that children with atopic eczema in our sample if anything were more securely attached than controls on the Ainsworth situation procedure. Mrazek et al found anxious resistant attachment relationships to be a feature of children with severe asthma, but unlike our sample, these children had had many admissions to hospital with the potential result that parenting had been severely disrupted.

There was a trend for children with atopic eczema to have more physical contact with their mothers during the attachment assessments. This may be related to the increased physical contact, which is a feature of the treatment of atopic eczema and is probably of no significance in terms of psychiatric adjustment as the subgroup of children who remained in constant physical contact with their mothers during the reunion episode were comparable with the rest in terms of behavioural problems. The specific area of parenting where mothers of children with eczema reported suboptimal functioning was discipline: fewer regarded this as effective and though being comparable with the control mothers in their use of strategies such as distraction, persuasion, ignoring, threats and punishments, they more commonly gave in to the child. It is a common but undocumented observation that parents often give in to the child to avoid conflict and their children's distress, which is likely to precipitate scratching and worsen the eczema. This may contribute to the increased emotional symptoms in the children by decreasing their chances to learn to cope with frustration and to develop a sense of mastery of the fears and separation anxieties that are developmentally common in preschool children. It may also underlie the parents' reports of poor behavioural adaptability. This suggests that it would be worth exploring the way in which the mother disciplines her child at the paediatric clinic, so that parents may be guided into using the most efficient method that can be successfully applied in children with atopic eczema.

We conclude that increased behavioural problems and parenting distress and difficulty are important features of severe atopic eczema in early childhood, but the indications are that the child's social development and the quality of the attachment relationship with the mother are not adversely affected and that the behavioural problems are probably temporary, related to the severity of the physical condition.


Psychosocial adjustment in preschool children with atopic eczema.

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