Number of readmissions was similar for hospital at home and traditional hospital care for children with moderate illness


QUESTION: Do readmissions and length of care differ for hospital at home (HAH) and traditional hospital care (HC) for moderately ill children with breathing difficulties, diarrhoea with or without vomiting, or a feverish illness?

Main results
Analysis was by intention to treat. The HAH and HC groups did not differ for readmissions (table) or attendances at the accident and emergency department (no data available). Children in the HAH group received an extra day of care compared with those in the HC group (mean bed/care d 2.37 v 1.37, p < 0.001).

Conclusion
Number of readmissions did not differ for hospital at home and traditional hospital care for moderately ill children with breathing difficulties, diarrhoea with or without vomiting, or a feverish illness.

Hospital at home (HAH) v traditional hospital care (HC) for children with moderate illness

<table>
<thead>
<tr>
<th>Outcome at 90 days</th>
<th>HAH</th>
<th>HC</th>
<th>RRI (95% CI)</th>
<th>NNH</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥1 readmission</td>
<td>8.1%</td>
<td>7.4%</td>
<td>9.3% (−44 to 113)</td>
<td>Not significant</td>
</tr>
</tbody>
</table>

*Information provided by author.

COMMENTARY
Reducing hospital admission and readmission rates of children has long been an aim of child health practice in the UK. The study by Sartain et al is important because it uses an RCT to compare the outcomes of HAH and routine HC in acutely ill children. To my knowledge, no other study has attempted to do this. However, several points should be considered when interpreting the results.

The criteria for entry to the trial limited participants to children with moderate illness. In some children’s units in the UK, these criteria would warrant early discharge regardless of a HAH scheme. The authors point out the social elements to these admissions according to Townsend deprivation scores and family employment status. The HAH service may therefore be viewed as a way of managing social admissions for acute illness by means of home based nursing. Whether this is a cost effective way to address the issue is not apparent from the findings presented. However, for the purposes of the RCT, the authors provide an objective set of criteria against which the 2 services (HAH and HC) may be evaluated, and against which other similar services may be judged.

At first glance, the hospital readmission rate appears to be a good proxy for parental ability to cope with acute illness at home. However, 2 patterns should be noted. Firstly, increased demand for treatment of respiratory distress may have resulted from improved parental recognition of respiratory symptoms. Secondly, readmission rates for children with fever, and children with diarrhoea and vomiting appear to be lower than usual readmission rates. However, as the authors point out, the group of children with the highest readmission rates had chronic health problems rather than acute episodic illness. This raises the question of whether readmission rates are, in fact, a good outcome measure, and whether they are useful as a proxy for parental coping ability.

Interestingly, the large number of initial refusals for randomisation were because parents wanted the HAH service. The qualitative data appear to indicate high parental demand for this service. This suggests a high user preference for HAH service and could be a major impetus in service reconfiguration for acutely ill children.

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