Letters to the Editor

bran in constipated adults, as stated in the editorial. Furthermore, the use of wheat bran for adults is consecrated and is included in the majority of recommendations for dietary treatments, including those of the American Gastroenterological Association (AGA) and of Heaton, from the United Kingdom, a recognized expert on the subject, and who, in a textbook chapter cites further work with wheat bran for constipated adults, and which, while uncontrolled or published some decades ago, cannot be undervalued.

The most often quoted problem with respect to wheat bran use has been difficulties with patient acceptance. However, in my long experience of treating constipated children with wheat bran and also in the experience of other members of the pediatric gastroenterology course at the School of Medicine of Botucatu, UNESP, this difficulty is not significant over the short and medium terms, which is the time scale over which supplementation is most necessary. The correspondents suggest that our experience be shared with the pediatric community, which is in fact happening, through lectures and several book chapters/reviews, including with the collaboration of Prof. Morais himself, one of which has been cited already. More detail will be offered in future publications in journals. It should be explained that at no point in the editorial was it stated that “dietary fiber is the only element capable of and indispensable to preventing and treating all cases of constipation...”. The editorial does indeed, however, contain the following, “...it is up to clinicians to find ways of making constipated children accept a diet..., IN ADDITION TO PERFORMING NECESSARY INTERVENTIONS...”

Indeed, as the correspondents state, a large proportion of commercial fibers on sale in our country is soluble, but in the form of medication, which simply reinforces our decision to use the food product wheat bran. With respect of the glucomannan soluble fiber, referred to by the correspondents, I would like to remind that it has been indicated for the treatment of obesity, because it is one on the most viscous of fibers, which increases satiety and this effect on constipated children is worthy of evaluation.

The final questions raised by the correspondents are extremely pertinent. In addition, without any doubt whatsoever, randomized controlled clinical trials are still necessary and, if possible double-blind ones, in order to elucidate the role played by the different types of dietary fiber in constipated children. Whilst we await the results of such studies, each service should evaluate the therapeutic regimen it considers most adequate in the face of already existing evidence and the difficulties encountered in their own experience.

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References

Antenatal corticosteroid use and clinical evolution of preterm newborn infants

Dear Editor

At the service for which I work there is a very interesting situation with respect of mortality rates: they are high primarily as a result of later death and of newborn babies (NB) with weights that, normally, would not be associated with death in developed countries. IT is true that the use of antenatal corticosteroids has been increasing, and, together with this, the rates of pulmonary problems have reduced greatly, primarily when associated with the use of nasal continuous positive airway pressure (CPAP). Using logistic regression with a multivariate model in a study of four important maternity hospitals in Rio de Janeiro, we found that ventilator usage, birth weight less than 1,250g, maternal vaginal hemorrhage and the male sex were all variables associated with a risk of death, with the use of pulmonary mechanical ventilation the primary indicator of death. The use of antenatal corticosteroid, caesarian delivery and total parenteral nutrition were all associated with reduced mortality. The use of pulmonary surfactant was shown to be associated with a risk of death, but without statistical significance. Currently the greatest cause of death after the fourth day of life is respiratory problems followed by neonatal sepsis. In conclusion, we are reducing hyaline membrane disease and its severity, but if the children remain on mechanical ventilation for more than 4 days they will be contaminated and die from
infection. In Table 2 of the article published by the Brazilian Neonatal Research Network (Rede Brasileira de Pesquisas Neonatais)\(^2\) the observed rates of antenatal corticosteroid use and number of antenatal consultations and were not given only statistically significant results were shown. Results ought to be listed even when they have no statistical value, since, if there were to be any interaction, these results would become important. Neither were the cut off points for gestational age, birth weight or SNAPPE-II scores given.

Were the article to show an interaction between these results, what might be happening is that the factors associated with reduced mortality, such as the use of antenatal corticosteroid and pulmonary surfactant, are reducing respiratory diseases or making them less serious, but, due to deficient care the children die later, particularly those put on pulmonary mechanical ventilation.

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References


As can be observed, these variables are a long way from having any impact on the mortality rate of these children. Cut off points for gestational age, birth weight and SNAPPE-II scores were not given because these parameters were treated as continuous variables.

Without doubt the results presented indicate that the perinatal and postnatal care offered to our preterm children require great improvement and that infection constitutes an enormous challenge to be overcome during these periods. Descriptive and analytical studies of neonatal care are of fundamental importance to improve this care.

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References


Authors’ reply

We are grateful to Prof. José Luiz Muniz Bandeira Duarte for his interest in our study\(^1\) and for his courtesy in presenting the conclusions of his work on mortality in four maternity units in Rio de Janeiro.\(^2\)

In the children analyzed by our study, infection was the most common cause of death according to autopsy reports. Of the 107 deaths, 48 (44%) were associated with infectious problems, 35 (32%) with problems caused by prematurity (pulmonary, hemorrhagic and metabolic problems) and 16 (15%) with perinatal anoxia. The survival time of the children that died are shown in Table 1. It can be seen that there was no association between antenatal corticosteroid use and length of life.

Table 1 - Mean±standard deviation of the survival time of children who died

<table>
<thead>
<tr>
<th>Group</th>
<th>n of deaths</th>
<th>Survival time (d)</th>
<th>p*</th>
</tr>
</thead>
<tbody>
<tr>
<td>All children</td>
<td>107</td>
<td>2.82±11.4</td>
<td></td>
</tr>
<tr>
<td>Antenatal corticosteroid</td>
<td>43</td>
<td>3.18±12.1</td>
<td></td>
</tr>
<tr>
<td>No antenatal corticosteroid</td>
<td>64</td>
<td>2.25±10.2</td>
<td>0.35</td>
</tr>
</tbody>
</table>

* Comparison between children with and without antenatal corticosteroid.

The duration of mechanical ventilation in days for the children that died was 10.3±19.7 and, for those that survived it was 4±11. We agree with Prof. Duarte that the longer duration of mechanical ventilation is associated with a greater incidence of infection. Among our children, the correlation coefficient between mechanical ventilation and positive blood culture was 0.241, with p < 0.001.

Prof. Duarte pointed out that in our paper, in Table 8, the use of antenatal corticosteroids and the number of antenatal consultations were not given, and suggests that, even with no statistical significance, they should have been listed, since these results would become important if they was any interaction. Table 2 lists the values requested.

Table 2 - Variables that were not associated with the death after logistic regression model

<table>
<thead>
<tr>
<th>Analyzed variable</th>
<th>Odds ratio</th>
<th>Confidence interval (95%)</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prenatal visits</td>
<td>1.00</td>
<td>0.891-1.12</td>
<td>0.99</td>
</tr>
<tr>
<td>Antenatal corticosteroid</td>
<td>1.23</td>
<td>0.62-2.45</td>
<td>0.56</td>
</tr>
</tbody>
</table>