Television viewing and asthma: spurious relationship?

In the April 2009 issue of Thorax, Sherriff and co-authors report on data taken from the ALSPAC study, addressing the association between television viewing in early childhood with the subsequent development of asthma. They found that 17.4% of children watching no TV at all were exposed to postnatal ETS, 25% of children watching less than 1 h per day, 33.1% of children watching 1–2 h per day and 42.3% of children watching 2 h or more per day (p linear < 0.001). However, only 6.4% of children exposed to postnatal ETS reported asthma at 11.5 years compared with 5.9% not exposed (p for difference between proportions 0.62).

Therefore, despite the association of ETS exposure with reported TV viewing, the lack of a strong association of ETS with asthma at 11.5 years in children asymptomatic up to 3.5 years made it unlikely that postnatal ETS had an independent effect on asthma development in this sample.

In our paper, we chose to adjust the final model for prenatal tobacco smoke exposure only. This was chosen because there was a high degree of co-linearity between prenatal and postnatal smoking in this population and prenatal exposure has been reported to be more strongly associated with asthma in several studies (see the recent meta-analysis by Pattenden et al.). We have previously reported that prenatal exposure is associated with early onset wheezing, but that neither prenatal nor postnatal exposure to ETS was associated with later onset or persistent wheezing, more likely to be phenotypes associated with asthma. By excluding children who wheezed at any time before 3.5 years from our study, we think it is likely that we have attenuated any potential effect of early smoke exposure on the outcome. Finally, when we considered reported postnatal ETS as a covariate in our final model along with prenatal exposure, we found no attenuation of the association of TV viewing with asthma.

We also considered the possibility that postnatal ETS may have modified the association of prolonged TV viewing with asthma at 11.5 years, as suggested by the correspondence, but a formal test of interaction between TV viewing and ETS on asthma outcome did not support this (p = 0.73). Asthma prevalence at 11.5 years stratified by postnatal ETS exposure is shown in table 1.

## Steroid-induced hyperglycaemia and pulmonary disease

Chakrabarti and colleagues recently reported that hyperglycaemia within 24 h of admission could be used as a predictor of outcome during non-invasive ventilation in uncomplicated chronic obstructive pulmonary disease (COPD). Hyperglycaemia was unrelated to prior oral corticosteroid use in this study, but duration of steroid preceding admission was not reported. Furthermore, as this group included only 18 patients it would be insufficiently powered to detect a modest rise in glucose. Doctors are vigilant to the increased risk of diabetes whilst taking steroids, but are less attentive to small changes in glucose. Li et al recorded complications of steroid treatment in a cohort of 1291 patients with SARS (severe acute respiratory...
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Johannes C van der Wouden

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