and 1/107. It is regrettable that the authors' considerable effort in searching for metabolic cause of SIDS was let down by some basic mathematics.

LINDSAY J SMITH
Wellcome Centre,
Molokini Square
London WC1N 2AZ


Dr Holton and colleagues comment:
Dr Smith is quite correct in pointing out that our negative results in testing for MCAD deficiency in cultured skin fibroblasts from 70 cases of SIDS were not incompatible with claims of a true prevalence of 3%. However, our finding that our claims regarding the incidence was less than 3% were based on our findings and those of others, the report of the Lyon group being cited in particular.1 In an identical study to our own, the French workers found no positive findings in 107 SIDS cases. If our results are combined, the binomial probability theorem indicates that the incidence of MCAD is less than 1.7% with 95% confidence, or 2-6% with 99% confidence.

On this basis, our claim was not unreasonable. Perhaps it would be useful to summarise further work relating to the prevalence of MCAD deficiency in SIDS. Two other studies similar to the one referred to above have been completed. In Sheffield, 160 SIDS cases (E Worthy, personal communication) and in Edinburgh 120 cases (G T N Besley, personal communication) were tested for MCAD deficiency, all with negative results. If all our results are pooled (457 cases) the prevalence of MCAD deficiency is calculated to be less than 0.65 or 1.06%, with 95 or 99% confidence respectively.

Dr Smith concludes that recent reports of population screening for the common MCAD deficiency mutation found carrier frequencies which supported our claim. In addition, the K329E mutation has been sought in DNA extracted from the liver of more than a 100 SIDS cases without finding any homozygotes for the defect.2 Although it is important to appreciate that for MCAD deficiency is a cause of sudden, unexplained death, the presentation is not typical of SIDS and it is a rare occurrence.


Reducing the risk of cot death

SIR,—The nationwide campaign urging mothers to lay their babies on their backs to sleep is open to question. It would be unfortu-

nate if the leaflets from the Foundation for the Study of Infant Deaths (FSID)3 and its counterpart from Health Education Authority of England with the unambiguous slogan 'Back To Sleep'4 are taken to represent the views of paediatricians generally.

The assertion that 'there is no evidence that babies are likely to choke when lying on their backs' belies the considerable research into gastro-oesophageal reflux and laryngeal spasm, which is one of the major aetiological hypotheses. Altogether 70% of normal babies have been shown to have reflux during active sleep with 24 hour pH probes.5 A high incidence of reflux has also been demonstrated in 'near miss' cases using barium swallows, pH probes, and isotope milk scans.6

Because the prone position is unsafe it does not follow that the supine position is safe. This latest U turn merely replaces one bad position with another. All horizontal positions encourage reflux with the risk of laryngeal spasm. What really matters is to raise the head of the cot. All studies of the supine-versus-prone position have neglected the important effect of gravity on reflux. The ideal sleeping position is with the head raised7 but if babies must lie flat, the side is probably safer than the front or back. Better still, babies' cot mattresses should be wedged upside down.

Many parents are very worried by the risk of a cot death even if they do not voice their concerns. The recommendations I have made for many years are:

- Lay your baby to sleep on one or other side, never the front or back
- Prop up the head of the cot by 10-12 cm (4.5")
- Keep the cot beside your bed in the 10-16 months
- Learn to give the kiss of life
- Get medical advice if your baby is unwell

A nationwide campaign to reduce cot deaths is undoubtedly long overdue. However if it is to succeed, it is important that the recommendations are simple, sensible, and sound. I am seriously concerned about the widespread publicity of FSID and Department of Health guidelines.

HERBERT BARRIE
Parkside Hospital, 
53 Parkside, 
Wimbledon SW19 SNE


Imposed upper airway obstruction in small children

SIR,—Surveillance of one of the 14 cases described by Samuels and his colleagues1 was undertaken in the department of child health in this hospital with their advice and support.

In addition to the videos they describe, we recorded sound as well and found this to be of considerable importance. Although perpetrators do not know that they are being watched, they are certainly aware of the possibility of being interrupted by someone entering the room. They may go to considerable lengths to disguise what they are about and this was certainly true in our case. As a result, it may not be easy to demonstrate what is happening on video alone. Some of the most compelling evidence which led to a successful outcome of the case arose from the ability to compare what we could see being done to the child with what the perpetrator was saying at the time. In addition, the audible change in a child's cry as the airway is obstructed is unmistakable even if the way in which that obstruction is being achieved is subtle.

Samuels and his colleagues describe the very careful preparation required for covert video surveillance. I would also emphasise the importance of continuing support for all the professionals involved, be they doctors, nurses, or police officers. Surveillance may be necessary for many years. Perpetrators are well aware of the possible consequences of a few moments inattention, of any failure of communication, or indeed, of inadvertent betraying to the perpetrator that surveillance is being undertaken.

RICHARD ORME
Department of Child Health, 
Royal Devon and Exeter Hospital (Wonford), 
Barnack Road, 
Exeter EX5 1DW


ABC of child abuse

SIR,—Torn frenulum in children have been said to be 'virtually diagnostic' of non-accidental injury (NAI).1 However, many recent cases indicate that this is not always so.

The first case was a 1 year old boy, whose sister was attending our casualty department for an unrelated reason. The boy was walking around the waiting room and fell flat on his face. Examination of the crying child revealed a torn frenulum of the upper lip. The whole incident was witnessed by professional nursing staff and so the innocence of the incident cannot be doubted.

The second case involves the 14 month daughter of the author. After attempting to climb a vegetable rack, my daughter fell backwards, pulling the vegetable rack onto herself. Rapid investigation of the source of the subsequent bleeding confirmed my worst fears—she had torn a frenulum of the upper lip, presumably where it had been caught on the wire basket. I'm afraid that readers will have to take my word as to the innocence of this injury (what self respecting paediatrician would ever dare take such an injury to their local casualty department!). A torn frenulum is classically said to occur when a bottle or spoon is forced into the mouth of a child.2 This association is probably strong enough to warrant the usual inquiries by the child protection agencies to see if NAI has occurred. However, before guilt of the child carers is assumed, it should be borne in mind that a torn frenulum is no more pathognomonic of

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Reducing the risk of cot death.

H Barrie

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