References


Two or Three Interviews?

To the Editor—We have read with great interest the manuscript by Davidson et al., related to the incidence of awareness in a pediatric population. We should congratulate the authors for their effort.1 They report an incidence of awareness of 0.2%. This value is significantly lower than others studies, including a previous one from the same author.2

We would like to add some comments to the discussion, and specifically another possible explanation for the lower incidence of awareness.

The authors in this study conducted only two postoperative interviews, at 24 and at 72 hours. They claimed that a third interview at 30 days had low positive findings, although in the previous study by the same authors they conducted three interviews and the last had a positive findings of 29%. Two of the seven reported cases appeared with the third interview.2 The overall incidence of awareness in the pediatric population was 0.8%, over 921, significantly higher than the present study.

The Brice test,3 to our knowledge, seems to be the best methodology to study this complication, with different modifications depending on the population undergoing the study. According to that test, ideally three interviews should be conducted: within 24 hours, between 24 and 72 hours, and at 30 days after surgery.1–5

In a clinical condition as the one reported, we should ideally follow methodology already validated or at least accepted by current anesthesiologists. There is no single accepted methodology, and certainly none has been validated; indeed, it is difficult to see how one can be validated. Could it be that the variation in methods used implies that no method is clearly the best? Interestingly many people claim reasons explaining the lower incidence of awareness.

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References


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In Reply—I wish to thank Dr. Delfino for his comments. I agree that not having an interview at 1 month may have increased the false negative rate; however, I believe this is unlikely to have made a substantial difference to our result.1 In children, the proportion of cases of awareness first detected at 1 month is appreciable but not large. In our earlier study we detected 2 of the 7 at 1 month, and Lopez et al. detected one of their 5 confirmed cases at 1 month, while at 1 month Blusse et al. detected no extra cases of true awareness.2–4 A 25–30-percent increase would not have changed our overall finding of a lower rate of awareness. It should also be noted that adhering to three interviews may result in an increase in false positives, as there is good evidence to suggest that repeated questioning increases implanted memory in children.

Dr. Delfino raises the very important point of validity of awareness assessment. We have found 76 papers describing awareness under anesthesia. Authors describe all sorts of different numbers, timing, and design of interviews. There is no single accepted methodology, and certainly none has been validated; indeed, it is difficult to see how one can be validated. Could it be that the variation in methods used implies that no method is clearly the best? Interestingly many people claim

To use the Brice study design, although their study design bears little resemblance to his (Brice played auditory stimuli during anesthesia and interviewed the patients three times in hospital within the first week). Similarly, the questions Brice used have been modified. The phrase “Brice interview” is becoming meaningless, as increasingly authors use appropriately different and improved study designs and interviews.

I agree that by using the same measure researchers can better understand the etiology of awareness and better compare interventions. However, current measures are still too subjective. Even the measures described by Myles et al.6 and Avidan et al.7 rely on subjective ratings by adjudicators. We should not yet accept any awareness assessment method as a gold standard, but continue to seek more accurate ways to measure this important phenomenon.

References


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