Intrathecal Morphine in OB
To the Editor: Safety and utility of intrathecal morphine for labor pain has been reprinted by Edwards, et al. 1 To mitigate side effects, the authors recommend naloxone 0.8 mg in each 1000 mL intravenous fluids supple-

The Journal of the American Board of Family Practice—Vol. 2 No. 2 / April – June 1989
mented with 0.1 mg bolus. The rate recommended (100 ml/hour) appears to be safe, but it is possible that the patient may require or unintentionally receive fluids at a faster rate during labor, delivery, or postpartum. Naloxone, even in small doses (100 μg), has been shown to be hazardous following systemic opioid administration.2 In addition, naloxone may reverse analgesia,3 or breakthrough pain may occur. Potential problems regarding naloxone administration may be lessened by “piggy-back” infusion using a well-marked burette administration set with, for example, naloxone 80 μg in 100 ml intravenous fluids. Possibly, an even safer approach is administration of a narcotic agonist/antagonist such as butorphanol tartrate or nalluphine hydrochloride. Nalluphine has been shown to decrease clinically significant respiratory depression4 while providing some analgesia of its own.5 Davies and From6 reported that nalluphine 10 mg subcutaneously resulted in significantly less pruritus following epidural fentanyl. The possibility of respiratory depression in the neonate—especially in premature infants—following systemic administration of any opiate to the parturient should be considered.

Robert P. From, D.O.
University of Iowa
Iowa City, IA

References

The above letter was referred to the authors of the article in question, who offered the following reply:

To the Editor: Dr. From has submitted some productive comments on the use of naloxone to control the side effects of intrathecal morphine for labor pain. I agree that it is possible for patients to receive unintentionally intravenous fluids at rates greater than 100 ml/hr, which could be unsafe; however, I continue to recommend supplementation of naloxone in 0.1 mg intravenous bolus as needed rather than an increase in the intravenous rate greater than 100-125 ml/hr. Dr. From has pointed out the possible side effect of pulmonary edema from naloxone administration. I agree we should be aware of this side effect, but in the references cited, the patients who developed this either had preexisting cardiac disease or had received multiple other medications during anesthesia. While it would seem that use of naloxone would oppose the analgesic effect of the intrathecal morphine, this has not been my experience, nor was it reported by Poull and colleagues.

Nalluphine or butorphanol may be safe alternatives to naloxone as suggested by Dr. From, provided that adequate attention is given to their respiratory effect on the newborn who has no narcotic on board for these to act as antagonist.

My conclusion, after reviewing the literature, is that nalluphine and butorphanol may be useful alternatives in some patients, but at present, in the healthy pregnant patient, naloxone is the safest choice to control the side effects of intrathecal morphine.

Rick Edwards, M.D.
Grand Prairie, TX

Rural Obstetric Care
To the Editor: If the scientific method may be defined as the careful testing of a hypothesis, then Dr. Wain Allen’s article “Obstetric Care in a Rural Family Practice” (January-March 1989) qualifies in spades. The hypothesis seems to me to be that a competent, dedicated, well-trained family physician can safely “deliver” obstetrical care in a rural environment. The numbers, though small, are carefully assessed and reported. The writing is succinct, and the distinction is made between opinion and fact. I disagree with Dr. Paul Young’s editorial comment that the “data do not scientifically establish any specific hypothesis” or that “fetal outcomes are not documented.” There were no deaths, and the one premature birth was “normal at 2 years of age.” Perhaps I do not understand what more Dr. Young requires.

My congratulations to the editors for publishing this much needed article from the trenches of family medicine. It should encourage the submission of similar private practice studies to family practice journals.