# **Re: A Predictive Equation to Guide Vitamin D Replacement Dose in Patients**

To the Editor: Singh and Bonham's<sup>1</sup> study concluded that a majority of patients require higher vitamin D treatment and maintenance doses than are currently recommended. Their statement regarding the need for higher vitamin D doses and serum concentrations is important, especially considering the morbidity and mortality that adequate vitamin D intake can prevent. Their statement claiming that sunscreen prevents the absorption of vitamin D from ultraviolet radiation, however, contradicts previously published studies.

Multiple studies found that typical sunscreen use does not limit the absorption of vitamin D to a clinically significant extent. Farrerons et al<sup>2</sup> found that although vitamin D concentrations were lower in users of sun protection factor 15 versus placebo, concentrations were still sufficient to prevent a decrease in bone density or result in secondary hyperparathyroidism. Young<sup>3</sup> found that adequate vitamin D concentrations were still obtained with appropriate sunscreen application despite higher vitamin D concentrations in nonsunscreen users. In addition, although sunscreen users' vitamin D concentrations did not increase during the study by Marks et al,<sup>4</sup> they did remain within the therapeutic range and did not decrease.<sup>4</sup>

Pharmacists and physicians should be aware that vitamin D supplementation beyond 800 IU is often necessary. Despite sunscreen use, patients can absorb vitamin D; therefore, supplementation and lifestyle modifications may work together to increase, or at least maintain, therapeutic concentrations of vitamin D. It is essential that pharmacists and physicians counsel patients on lifestyle opportunities, either in place of or in addition to supplementation with medication for patients who prefer nonmedication regimens, and for patients who need an additional boost in their vitamin D concentration despite recommended supplementation.

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The above letter was referred to the author of the article in question, who declined to comment.

### **Re: Promotion of Family-Centered Birth With Gentle Cesarean Delivery**

Because we promote "gentle" cesarean delivery,<sup>1</sup> I trust it is in the larger context<sup>2,3</sup> of avoiding cesarean delivery,<sup>4,5</sup> whenever feasible, by "active conservative" management of labor (eg, partographs and decision making that considers alternatives to cesarean delivery). Through the American Academy of Family Physicians Advanced Life Support in Obstetrics<sup>6</sup> course, family doctors are already leaders in this effort in the United States and abroad.<sup>7</sup> This is likely already being done at Brown and other places where this advance in mother/child-centered birthing is working so well. If Magee et al<sup>1</sup> could include the proportion of deliveries by cesarean delivery within their cohorts, this would frame that context.

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The above letter was referred to the author of the article in question, who offers the following reply.

# Response: Re: Promotion of Family-Centered Birth with Gentle Cesarean Delivery

*To the Editor:* We thank Dr. Pust for his comments and for reiterating the goal of promoting vaginal birth as the ideal mode of delivery whenever possible.

The context of our gentle cesarean work is a small urban hospital caring for a largely underserved population, including many high-risk obstetric patients. All well babies are placed skin-to-skin after birth regardless of the mode of delivery. Rooming-in is the norm—we have renamed the nursery the "procedure and monitoring room" and use it as such. In 2013, 458 deliveries occurred at our hospital; 29% of these were cesarean births, including 21% primary cesareans. Vaginal birth after cesarean was successfully achieved in 21 of 24 patients undergoing trial of labor after cesarean. Despite our largely underserved, often highrisk patient population, we are pleased that our primary cesarean rates remain the same or lower than national averages.<sup>1</sup>

We note, however, that these statistics are not a perfect assessment of labor and delivery practices at our facility. In recent years a number of women desiring skin-to-skin contact after a planned cesarean birth have elected to transfer care to our facility toward the end of their pregnancy to participate in our gentle cesarean program, so that they may keep their baby with them in the operating room, assuming no emergencies arise. These women are included in the total and primary cesarean rate listed above.

We agree that cesarean delivery is a major surgery and should not be recommended as the mainstay. Yet when operative birth is needed, and mother and baby are healthy, we urge providers and hospital administrators to consider the benefits of the family-centered approach to cesarean delivery that we detailed in our article.<sup>2</sup> We believe early skin-to-skin contact between mother and child is possible for most cesarean deliveries and is a potentially important step in the bonding process, in achieving a successful early latch, and in helping to promote sustained breastfeeding.

Sincerely,

Susanna Magee, MD, MPH Cynthia Battle, PhD John Morton, MD Melissa Nothnagle, MD, MSc Brown University Alpert Medical School Providence, RI

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## **Re: Family Physicians' Knowledge of** Commonly Overused Treatments and Tests

To the Editor: Maurer et al<sup>1</sup> outlined the results of a simple yet elegant study that shows family physicians' knowledge of commonly overused treatments and tests. At first glance, the article seems to demonstrate important gaps in knowledge; however, a detailed reading of the article gives cause for doubt.

Maurer et al<sup>1</sup> and the *Journal of the American Board of* Family Medicine should be lauded for publishing the actual multiple choice questions used in the study in the appendix of the article. Unfortunately, all the questions leave room for improvement. The second question offers the learner a binary choice: yes or no. Someone with no medical knowledge would have a 50% chance of getting this question correct. The test-wise candidate-who knows that he or she is undergoing an assessment to test his or her ability to "choose wisely"-might also feel prompted to give the answer that the examiner expects, and might thus choose the option with the least number of treatments or tests. The remaining questions ask the candidate to choose the most appropriate scenario for the question. Once again, this is less than optimal as it doesn't simulate clinical reality. Questions should ideally mimic clinical practice-hardly ever in clinical primary care medicine do 4 patients in a row present in relation to a possible Papanicolaou test (as in question 3). The other questions contain similar issues. These problems might seem minor; however, they may create questions that are not as valid and reliable as they should be. The art and science of constructing test questions has advanced over many years, and ignoring the advances that have been made seems a shortcoming.<sup>2</sup>

The good news is that the core content of the questions is likely to be sound and that judicious editing will make them valid and reliable. The questions could then be used in a variety of contexts outside the framework of the study. The questions, or questions like them, could be used efficiently and at low cost in formative or summative assessments, E-learning resources, or simply in promotional campaigns aiming to encourage wiser choices among physicians.<sup>3</sup> Increasingly, the single best answer to such questions might be no investigation, no drug treatment, and no surgery.

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