but this would, on the present evidence, appear to be a subjective rather than an objective assessment.

References


J.E. Pollet
P.F. Sharp
F.W. Smith
University of Aberdeen and
Aberdeen Royal Infirmary, Foresterhill, Aberdeen, Scotland

REPLY: It seems that despite the many uncertainties surrounding vesicoureteral reflux and its management, Drs. Pollet, Sharp, and Smith are convinced of the accuracy of the indirect technique of radionuclide cystography.

Our comparison was designed to be part of an introduction of the direct technique to our hospital’s department and included both tests done in close proximity with the same equipment. Although as we said (and Pollet et al. describe statistically) there was good agreement generally between the two tests, we were anxious about the 11 ureters discordant for reflux presence out of a total of only 24 positive for either test.

Although not convinced by any means of the absolute accuracy of a direct cystogram, we feel (somewhat subjectively) that the direct study does have less equivocal results and gives more confidence about the result.

The correspondents’ original report (their Ref.6) appropriately enough avoided any statistical analysis in describing the correlation between indirect reflux result and abnormality of the ureteric orifice seen at cystoscopy. The expanded series reported later (their Ref.2) used the McNemar test to show that their 53 refluxing ureters seen on indirect study were statistically more than the 32 seen on voiding (x-ray) cystogram. While this is undoubtedly true, many clinicians share our concern about the validity of the excess and its clinical relevance.

The disturbing lack of correlation between cystoscopic appearances of ureters draining kidneys which developed progressive radiologic scarring in the Toronto Hospital for Sick Children’s series (their Ref.5) is just one reason for our urologists being reluctant to submit children to this procedure despite Pollet et al. hailing it as a “gold standard” for reflux.

Perhaps the correspondents or some other well-equipped center will undertake a trial of direct versus indirect radionuclide studies using a dual-isotope method to evaluate the same episode of micturition. We were unable to do this for technical reasons and also recognize the loss of the filling phase in the direct cystogram available for such a comparison.

We would reassure others that in a Children’s Hospital setting with experience, patience, and explanation most children can be catheterized for cystogram without undue physical or psychological trauma.

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Emotional Stress and Iodine-131 Therapy for Graves’ Disease

TO THE EDITOR: In the June, 1985 edition of the Journal of Nuclear Medicine, Stewart, Rochon, Lenfesty, et al. correlated emotional stress with earlier onset of hypothyroidism following the use of iodine-131 (131I) therapy for the treatment of Graves’ disease. It has been my impression that the increased sensitivity of the Graves’ gland to 131I treatment correlates best with shorter duration of illness. If the patient’s history suggests that the illness began only a few months before the diagnosis was confirmed, I would give the patient 1 mCi less of the standard protocol dose of 131I. If the illness was years old (especially if antithyroid drugs had been used), the patient would receive 1 mCi more than our standard protocol.

Stewart et al. accept the documentation of the stress factor only if it occurred within the previous 12 mo. They thereby slanted the stressed group to those patients whose disease had started more recently. This study would confirm my impression that duration of the disease determines the thyroid gland’s sensitivity to irradiation. The presence of stress may be irrelevant.

Fred Feigenson
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Panorama City, California

REPLY: Dr. Feigenson suggests that our data was slanted to those patients with stress whose disease started more recently. In the Materials and Methods section of the paper (1) we clearly stated that stress identified in the 12 mo or less before the onset of symptoms would be scored as positive. However, in the results section it was stated that “individuals exposed to stress in the 12 mo prior to treatment have a significantly deleterious survival experience.” This was an error and confusing and should read “in the 12 mo before the onset of...