

We agree with the authors' conclusions but believe that only one of the two cases represents a false-negative study. It should be emphasized, however, that some of these cases are difficult to interpret. We routinely obtain images in at least one right anterior oblique and one left anterior oblique view, and a lateral or posterior view may also be helpful. Only with multiple views can we be certain that we visualized a gallbladder rather than renal activity or a prominent common duct or duodenum. We found that the somewhat greater renal excretion of HIDA did tend to cause difficulty with interpretation, and for that reason we prefer to use PIPIDA despite its somewhat slower excretion by the liver.

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REFERENCE

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Reply

The points raised by Dr. Brachman and colleagues are well taken; however, reinterpretation based on published images and incomplete knowledge of facts is always difficult. The focus of increased activity in question was only interpreted as representing the gallbladder after consideration of the following. Anatomically the focus lies in the gallbladder fossa and is in the correct relationship to the common duct. It is too medial to be the renal pelvis, and in the posterior view it lies medial to the renal impression in the liver. It is brighter than the left pelvis at all times and does not fade as the pelvis does. In the plain abdominal film the position of the right kidney does not correspond to the focus. The RAO view was obtained by raising the right flank of the patient, and placing a wedge under it. The patient had lumbar scoliosis with a left-sided convexity, and we are not certain how this would affect the postulated posterior rotation of the gallbladder. At 12:30 p.m. the patient received the radiotracer and the gallbladder was removed about 2 hr later. The resected specimen was imaged the next day, and the bile was still radioactive.

We fully appreciate the difficulties in interpretation and routinely use multiple views. In this particular case, however, sufficient time to complete the study to our satisfaction could not be assigned, since the patient was rushed to surgery.

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Platelet Labeling with In-111 Oxine: Benefit of Prostacyclin (Pgl₂)—Addition for Preparation and Injection

Wistow et al. (1) used prostaglandin E₁ (Pge₁) for injection of platelets labeled with In-111 oxine and found a decreased adherence of labeled cells to the infusion tubing. However, since no influence on platelet survival could be observed, the authors did not recommend its use.

Moncada et al. (2) discovered prostacyclin (Pgl₂), which acts like Pge₁ on platelets but is 20-30 times more active. Since Pgl₂

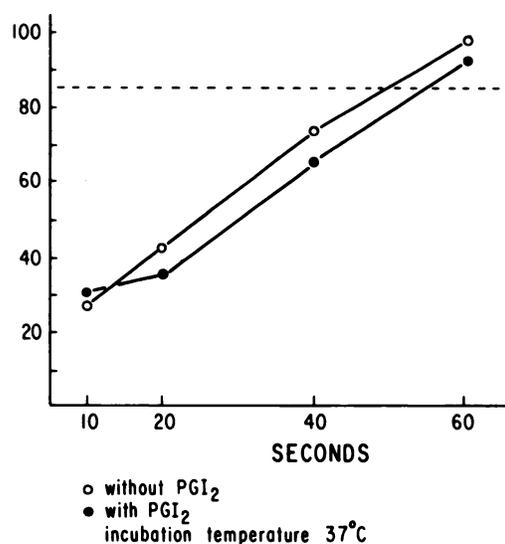


FIG. 1. Labeling efficiency with and without prostacyclin.

could enhance labeling efficiency by increasing intracellular c-AMP (2) and by preserving cell function during preparation, we studied its effect on human platelets.

During labeling, 25 ng Pgl₂ (kindly supplied by C. Gandolfi from Caro Erba, Milano, Italy) were added per milliliter of withdrawn citrated human blood, also to each milliliter of platelet-rich plasma (PRP) or platelet-rich Tyrode-albumin solution after each wash. While labeling efficiency (Fig. 1) after a short period of incubation was not influenced by the Pgl₂ addition, the number of small, visible aggregates occurring during preparation was decreased and the number of small aggregates seen under scanning electron microscopy was significantly decreased. In addition, the solution of the pellet during the washing procedure was much easier and quicker. The same data could be obtained using 500 ng Pge₁ per milliliter.

Though prostaglandins (Pge₁ and Pgl₂) have no influence on labeling efficiency or platelet survival (1), they play a beneficial role, both during preparation and by diminishing platelet adherence to the surface of infusion tubing, most likely through membrane stabilization by elevation of intracellular c-AMP. We, therefore, recommend the use of Pgl₂ in the dosage mentioned above. Recent findings of a better recovery support the beneficial role of Pgl₂ during platelet preparation.

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REFERENCES

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2. MONCADA S, GRYGLEWSKI R, BUNTING S, et al: An enzyme isolated from arteries transforms prostaglandin endoperoxides to an unstable substance that inhibits platelet aggregation. *Nature* 263: 663-665, 1976

Reply

H. Sinzinger et al. refer to recent findings of better platelet recovery after prostaglandins have been added to platelet-rich plasma