TEM. These alterations might be due to manipulation of cells during harvesting, pelleting, or washing, mainly degranulations and some pseudo-pod formation. None of these changes could be attributed to labeling with In-111 oxine or In-111 tropolone.

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Re: Cardiac Lymphoscintigraphy Following Closed-Chest Catheter Injection of Radiolabeled Colloid Into the Myocardium of Dogs: Concise Communication

I read with interest this article (1) that describes an elegant technique for yet another application of lymphoscintigraphy and would appreciate further comment on the following points.

The authors selected ^{99m}TcSb₂S₃ and In-III hydroxide colloid as their agents, but the majority of the data reported concerns ^{99m}TcSb₂S₃ with only brief allusion to In-III hydroxide colloid as a cardiac lymphoscintigraphic agent. What influenced their choice of this agent in the first instance?

On post mortem examination and imaging, nodes located between the aorta and pulmonary outflow tract consistently were found to contain radiocolloid; however, there were also at least four to seven nonradioactive thoracic nodes harvested from each animal. I would be interested in the authors' interpretation of these findings. What was the precise location in the thorax of the nonradioactive nodes? I assume they are anterior mediastinal nodes receiving drainage from the peritoneal cavity via the phrenic lymphatics, which would be demonstrable with intraperitoneal radiocolloid and not necessarily lymph nodes draining the myocardium.

Incidentally, Ref. 24 has been in print since 1979 (2).

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Reply

The authors thank Dr. Ege for her thoughtful questions about our article on cardiac lymphoscintigraphy (1). In response to the first question, the data in Table 1 refer to studies with 99mTcSb_{2S3}. The hypotheses approached by the investigation of cardiac lymphatics were that the sites of lymphatic drainage from the right and left ventricles were similar and that the rate of drainage from the heart was rapid. Our preliminary results in dogs studied sequentially suggested that this was indeed the case. We felt compelled, however, to investigate this process with simultaneous injections in both ventricles, which required the selection of a second colloid. The choice of In-III hydroxide colloid as the alternative material for these studies was based on the preliminary work of Castronovo (2). Although no definitive data comparing indium colloid and antimony sulfide were available, we felt that the crossover experiment would solve the problem of comparison.

There were typically four to seven nodes located in the superior mediastinum that did not contain radioactivity. The precise location of these nodes varied. We interpreted this observation, as suggested by Dr. Ege, to indicate that these nodes did not drain the myocardium.

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