

ACKNOWLEDGMENTS

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FIRST IMPRESSIONS Ghost-Like Scintigraphy

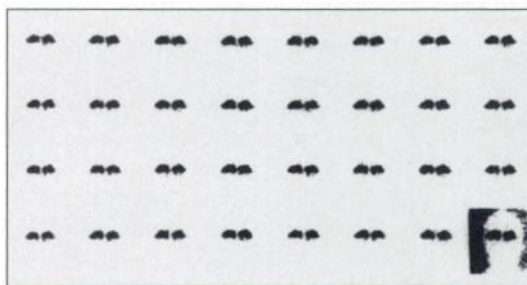


Figure 1.



Figure 2.

PURPOSE

A 70-yr-old man (Patient A) with a history of bilateral epiphora for 3 mo was referred for dacryoscintigraphy. The patient was seated in front of the gamma camera. After the instillation of radioactivity in each eye, sequential analog images were obtained. The last 32 frames are presented (Fig. 1). The magnified form of the last frame demonstrated the face of the patient (Fig. 2). During the acquisition of the last frame (24 min of the study), another patient (Patient B) in whom 20 mCi ^{99m}Tc -methylene diphosphonate had been injected for a bone scan had entered the examination room and stood behind Patient A. The head of Patient A attenuated the gamma photons emitted from Patient B. Together with accumulated radioactivity in both nasolacrimal glands, a ghost-like image was obtained.

TRACER

Technetium-99m-pertechnetate, 100 μCi in 10 μl drops

ROUTE OF ADMINISTRATION

Instillation into each lower temporal marginal tear strip by micropipette

TIME AFTER INJECTION

Dynamic study acquired one frame per 15 sec for 24 min

INSTRUMENTATION

Toshiba GCA-601E gamma camera fitted with a parallel-hole collimator

CONTRIBUTORS

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