

I-54

FROM: SGHRI

6 August 1974

SUBJECT: Final Report - Technetium Diphosphonate as a Bone  
Scanning Agent in Rabbits

TO: SGS

1. This constitutes a final report on clinical investigation I-54 (73): Technetium Diphosphonate as a Bone Scanning Agent. The bone scanning agent was prepared by labeling diphosphonate with technetium-99m in an acid-stannous chloride environment. Serial scintiphotograms were made on an Anger camera from 30 minutes to 4 hours after injection. Excellent skeletal images were obtained in all cases. Chromatographic studies revealed less than 5% free technetium in the bone scanning preparation. None of the rabbits were observed to have any ill affects.
2. Since this agent can be prepared sterile and pyrogen-free and since it exhibits excellent scanning characteristics in rabbits, we feel confident that it can be safely and effectively applied in humans.
3. No publications have resulted from this clinical investigation.



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