the non-uniformity of the camrea employing the high resolution and 1600 hole collimators.

(3) With window width of less than 20%, the non-uniformity is very sensitive to the relative position of a ^{99m}Tc 140 KeV peak within the window and a definite conclusion has not been reached.

Study on the Utility of Whole Body Scintillation Camera Table

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Hitherto, whole body scintiscanning had been practised by scintiscanner. However, we have felt inconveniences in the reason of occupying much times to gain scintigram.

On the other hand, we have known that whole body camera table could be controlled easily and shorten the imaging time. Then, we have studied on the general abilities of this table clinically and technically, i.e. on the resolving power, uniformity, linearity, image area and detectability.

Method:

Apparatus; pho/Gamma HP, Whole body camera table (Nuclear Chicago), bar pahntoms.

Collimeter: 40 KeV high resolution, Nuclear source; $^{99m}TcO_4$-.

Clinically: 10–15 mCi were injected into the patients.

Results:

1) Scanning method was more splendid than stationary method.
2) Stationary method was excellent to some degree to the scanning method on the resolving power.
3) Image area was 25 cm in the stationary method, but 60 cm in the sacnning method.
4) Linearity was worse and incontinuous in the scanning method. But, there was not disturbance to clinical use considering from reduction rate 1/8.
5) We have noticed on the utility of this table.

A New Algorithm of Tomographic Imaging Using Plural Pinhole Scintigrams

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Lately tomographic imaging techniques which combine scintigraphy with computer image processing approach had become the center of wide interest. We propose a new algorithm of tomographic imaging using plural pinhole scintigrams. The following method is the technique to reconstruct tomographic images using plural pinole scintigrams taken from several different viewing angles

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