

Summary

Usefulness of Imaging Method without Using Lead Plate for Sentinel Lymph Node Scintigraphy

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[Purpose] In scintigraphy of the sentinel lymph node, it is common to use a lead plate as a shield to reduce star artifact and scattered radiation in the portion surrounding the injected site of radioactive colloid. We have developed an imaging method without using a lead plate, and examined its usefulness in phantom and clinical imagings.

[Methods, Results] Star artifact was eliminated using a medium energy collimator. Effects of scattered

radiation from the injection site were reduced by setting energy window at higher level.

[Conclusions] Our method without using a lead plate can be applied to dynamic data acquisition and imaging of a portion where it is difficult to place a lead plate. It also seems to be a useful imaging method in that it takes patients' feelings into consideration.

Key words: Sentinel lymph node, Lymphoscintigraphy, ^{99m}Tc -Sn colloid.