EANM procedure guideline for ^{32}P phosphate treatment of myeloproliferative diseases

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Additional notes to the section headed “Dosimetry” are listed below.

Dosimetry. The table lists the organs with the highest radiation absorbed dose: bone surface, red bone marrow and breasts [1]. All other major organs and/or organ systems receive the same absorbed radiation dose per unit administered activity (Table 1).

The “effective dose equivalent” (EDE) is no longer in use; it has been replaced by the “effective dose” (ED) [3]. The ED reflects the stochastic risk of radiation and may be inappropriate for the assessment of the risk associated with non-stochastic radiation effects in targeted radionuclide therapy.

It should be noted that the absorbed doses given in the table were derived from a metabolic biokinetic model for occupational exposure of workers [4].

Table 1 Organ absorbed doses per unit administered activity after injection of ^{32}P

Organ	mGy/MBq
Bone surface	1.1 E+01
Red bone marrow	1.1 E+01
Breasts	9.2 E-01
Other major organs	7.4 E-01
Effective dose [2]	2.4 E 00 mSv/MBq

The absorbed doses per unit administered activity given in this guideline should neither be applied to practical dosimetry for an individual patient in a therapeutic setting nor be used prospectively for the prediction of the treatment-related toxicity in an individual patient.

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