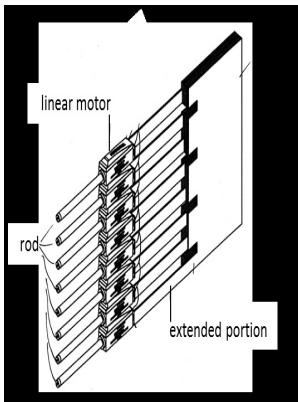


# Use of multi-leaf collimators for tissue compensation

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Description: -

-use of multi-leaf collimators for tissue compensation

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This feedback mechanism works well in conventional treatment delivery, but for the small number of MUs typically used for IMRT segments, the operation of this feedback circuit mechanism should be specifically verified. Measurements in solid water phantom were performed to verify the field-matching technique.

## Multileaf Collimator

ECOMP is currently utilised at both WBRO sites to improve dose homogeneity and reduce planning and treatment times. Compared with multileaf collimator MLC -based intensity-modulated radiotherapy IMRT for moving targets, compensator-based IMRT has advantages such as shorter beam-on time, fewer monitor units with potentially decreased secondary carcinogenesis risk, better optimization-to-deliverable dose conversion, and often better dose conformity. However, the increased conformality of IMRT plans should be accompanied by increased targeting precision; without it, the effectiveness of IMRT can be compromised.

### [Use of a multileaf collimator for the production of intensity

ECOMP is an effective solution to the dosimetric difficulties that can arise in radiotherapy when treating an irregular surface ie.

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The second collimator 102 is below the first and is a solid mass except for slits 106. The aperture outline in white has been drawn to cover the target but to exclude the spinal cord.

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