

DICOM Correction Proposal

STATUS	Final Text
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Correction Number	CP-2249
Log Summary: Clarifications of Scan Spot Maps	
Name of Standard PS3.3 2022e	
Rationale for Correction: For modulated scan mode types LEAPING and LINEAR, it may not be clear how to specify the beam turning off between two scan spot positions in the plan and treatment record. This is clarified. Also the example for the LINEAR type is clarified for the last Scan Spot Position that it explicitly does not move. It also includes a small correction of the Cumulative Meterset Weight in the given example.	
Correction Wording:	

In PS 3.3, Section C.8.8.25.8 RT Ion Beams Module, change the following examples

C.8.8.25.8 Scan Spot Maps

The Scan Spot Position Map (300A,0394) and Scan Spot Meterset Weights (300A,0396) shall be used as follows.

For a Modulated Scan Mode Type (300A,0309) value of LEAPING or LINEAR, switching off the beam shall be prescribed and reported using a Meterset Weight of zero at the next Scan Spot Position.

The following specifies for each value of Modulated Scan Mode Type (300A,0309) the definition of the map which is included in the Control Point 1 having Cumulative Meterset Weight (300A,0134) = 20, followed by a Control Point 2 having Cumulative Meterset **Weight(300A,0134) = ~~20~~ 40**.

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If Modulated Scan Mode Type (300A,0309) is LINEAR:

Position (X,Y)	(1.0, 2.0)	(6.0, 2.0)	(6.0, 3.0)	(2.0, 3.0)	(7.0, 5.0)	(7.0, 5.0)
Meterset Weights	0	6	4	6	0	4

Delivery Description:

- The beam is positioned at Scan Spot Position (1,0 2.0).

- The beam is continuously delivered with a Meterset Weight of 6, while being moved from Scan Spot Position (1.0, 2.0) to Scan Spot Position (6.0, 2.0).
- The beam is continuously delivered with a Meterset Weight of 4, while being moved from Scan Spot Position (6.0, 2.0) to Scan Spot Position (6.0, 3.0).
- The beam is continuously delivered with a Meterset Weight of 6, while being moved from Scan Spot Position (6.0, 3.0) to Scan Spot Position (2.0, 3.0).
- The beam is switched off and positioned at Scan Spot Position (7.0, 5.0).
- The beam is delivered **without moving from Scan Spot Position (7.0, 5.0)** with Meterset Weight of 4.