Fraction 1
Blood DVH is multiplied by Convolution DVH (individual segments & fraction outside liver)

New Blood DVH is generated as the basis for the next fraction

Additional file 3:
DVH convolution algorithm
Fraction 2
Blood DVH is multiplied by Convolution DVH (individual segments & fraction outside liver)

New Blood DVH is generated as the basis for the next fraction

Supplemental data 3: DVH convolution algorithm
**n-fractions**

Blood DVH is multiplied by Convolution DVH (individual segments & fraction outside liver)

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New Blood DVH is generated as the basis for the next fraction

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**Supplemental data 3:**
DVH convolution algorithm