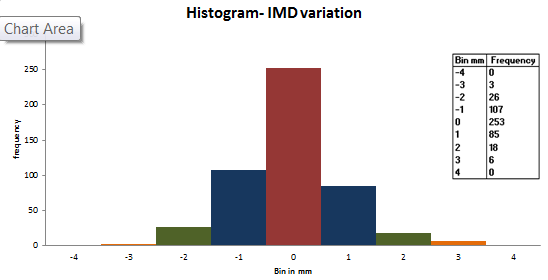
Supplementary files



**Figure 1 : Distribution of FM within the prostate. Displayed are rectum, bladder, prostate, seminal vesicles and the three fiducial markers inside the prostate.**



***Figure 2: Histograms of IMD variations (mm)between fiducial markers (FM)in RL, AP & SI direction and as a whole. The range is set the same on the RL,AP, SI to allow visual comparison of the distributions. Stage1 Method1.***

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***Fig3: Histogram- residual seed mismatch after seed (FM) match. X axis is in mm. The range is set the same on the RL,AP SI to allow visual comparison of the distributions. Stage1 Method2.***

***Fig4: Histogram – Prostate anatomy variation with respect to seeds****.* ***The X axis is in mm. The range is set the same on the RL,AP SI to allow visual comparison of the distributions.Stag2 study.***

|  |  |  |  |
| --- | --- | --- | --- |
|  | RL (mm) | AP(mm) | SI (mm) |
| Systematic Component (∑ setup ) | 0.40 | 0.63 | 0.80 |
| Random Component (σ setup) | 0.41 | 0.59 | 1.04 |

***Table 1 : Systematic and random components calculated for inter fractional FM localisation- method2 of stage1*.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | RL (mm) | AP(mm) | SI (mm) |
| SYS Component ( ∑ anatomy) | 0.65 | 1.27 | 1.32 |
| Random Component (σ anatomy) | 0.74 | 1.25 | 1.57 |

***Table 2 : Systematic and random components calculated for inter fractional prostate deformation -stage2 study.***

The combined systematic error ∑2 = ∑ setup 2 + ∑ anatomy 2 and the random error σ2 = σ setup2 + σ anatomy 2