Table 1: Comparison of the mean dose to the heart and LAD

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Surgery  | Heart (Gy) | LAD (Gy) | Proximal LAD(Gy) | Distal LAD (Gy) |
| BCS  | 4.219 | 14.653 | 4.306 | 24.6 |
| TMAC | 3.364 | 16.06 | 2.7 | 27.5 |
| p | 0.13 | 0.65 | 0.14 | 0.52 |

Table 2: Comparison of mean dose to lungs and breast

|  |  |  |  |
| --- | --- | --- | --- |
| Surgery  | Right lung |  Left lung | Right breast |
| Mean dose(Gy) | V5 | Mean dose(Gy) | V5 (%) | V10 (%) | V20 (%) | Mean dose(Gy) | V2 |
| BCS | 0.51 | 0% | 7.69 | 21 | 18 | 16 | 0.545 | 1.43 |
| TMAC | 0.29 | 0% | 5.96 | 16 | 14 | 12.4 | 0.374 | 0.26 |
| p  | 0.007 |  |  0.08 |  0.10 |  0.12 | 0.12 | 0.007 | 0.07 |

**Table 3**: Studies with reported doses to the heart, LAD, Lungs and opposite breast.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Study | Heart | LAD | Left lung | Right Lung | Right Breast |
| Mean dose(Gy) | Mean dose(Gy) | Mean dose(Gy) | V5(%) | V10(%) | V20(%) | MeanDose(Gy) | Mean Dose(Gy) |
| Arenas et al13 | 4.9 |  | 8 |  |  | 13.7 |  |  |
| Pili et al14 | 2.5 | 11.3 | 8 |  |  |  |  |  |
| Gursel et al15 | 5.33±2.43 |  |  | 19.87±5.79 | 14.8±5.2 | 8.29±2.35 |  |  |
| Borca et al16 | 3±1 |  |  | 22.4±5.2 | 15.8±4.2 | 11.7±3.6 |  | 0.52±0.12 |
| Schubert et al17  | 2.6±0.9 |  | 8.1±1.9 | 28.1±5.5 | 20.3±4.6 | 14.8±3.9 | 0.1 | 0.3±0.3 |
| Khullar et al27 |  |  |  | 98.7±1.8 |  | 59.8±7.4 |  | 2±1 |
| Tan et al28 | 7.75±4.73 |  | 15.41±5.06 |  |  |  | 0.88±0.056 | 1.97±1.75 |
| Yavas et al29 | 7.02±1.78 | 6.52±3.92 | 9.84±2.58 |  |  |  |  | 1.29±0.64 |
| Awad et al30 | 7.18 |  | 12.17 |  |  | 22.2 |  | 4.09 |
| Present studyBCSTMAC | 4.213.36 | 14.6516.06 | 7.695.96 | 2116 | 1814 | 1612.4 | 0.510.29 | 0.5450.374 |