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  (%) | Mean  Dose  (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 study  BCS  TMAC | 4.21  3.36 | 14.65  16.06 | 7.69  5.96 | 21  16 | 18  14 | 16  12.4 | 0.51  0.29 | 0.545  0.374 |