**Supplementary Table 1:** Volumetric proportion of the epididymal regions of non-diabetic animals (Negative control group) and STZ-induced diabetic rats treated or not with green tea.

|  |  |  |  |
| --- | --- | --- | --- |
| Parameters | Negative control | Diabetes control | Diabetes + Green tea |
| *Initial segment* |  |  |  |
| Epithelium (%) | 35.50 ± 4.48 | 38.10 ± 1.93 | 34.25 ± 3.54 |
| Lamina propria (%) | 2.70 ± 0.77 | 2.85 ± 0.81 | 2.65 ± 0.67 |
| Blood vessel (%) | 0.52 ± 0.24 | 0.27 ± 0.12 | 0.38 ± 0.05 |
| Connective tissue (%) | 37.65 ± 2.72 | 32.22 ± 3.37\* | 34.86 ± 0.93 |
| Smooth muscle (%) | 0.46 ± 0.18 | 0.53 ± 0.17 | 0.46 ± 0.11 |
| *Caput* |  |  |  |
| Epithelium (%) | 28.71 ± 4.01 | 31.24 ± 2.69 | 29.58 ± 1.52 |
| Lamina propria (%) | 2.96 ± 0.51 | 2.36 ± 0.34 | 2.43 ± 0.35 |
| Blood vessel (%) | 0.17 ± 0.10 | 0.29 ± 0.08 | 0.19 ± 0.09 |
| Connective tissue (%) | 9.23 ± 4.01 | 12.98 ± 2.64\* | 11.88 ± 1.54 |
| Smooth muscle (%) | 0.91 ± 0.36 | 0.74 ± 0.14 | 0.67 ± 0.12 |
| *Corpus* |  |  |  |
| Epithelium (%) | 22.65 ± 5.27 | 26.24 ± 7.92 | 25.12 ± 4.27 |
| Lamina propria (%) | 1.30 ± 0.39 | 1.42 ± 0.48 | 1.34 ± 0.42 |
| Blood vessel (%) | 0.53 ± 0.22 | 0.50 ± 0.22 | 0.69 ± 0.47 |
| Connective tissue (%) | 28.74 ± 5.76 | 23.48 ± 3.20 | 24.17 ± 2.38 |
| Smooth muscle (%) | 0.35 ± 0.14 | 0.50 ± 0.22 | 0.42 ± 0.12 |
| *Cauda* |  |  |  |
| Epithelium (%) | 24.66 ± 1.66 | 26.46 ± 1.76 | 26.04 ± 3.02 |
| Lamina propria (%) | 1.46 ± 0.38 | 1.55 ± 0.27 | 1.63 ± 0.34 |
| Blood vessel (%) | 0.38 ± 0.19 | 0.60 ± 0.25 | 0.48 ± 0.11 |
| Connective tissue (%) | 14.42 ± 2.00 | 17.83 ± 4.98 | 17.59 ± 0.73 |
| Smooth muscle (%) | 0.93 ± 0.22 | 0.74 ± 0.15 | 0.83 ± 0.13 |

Mean ± SD. \*significant difference (p ≤ 0.05) between Negative Control and Diabetes Control groups by student`s t-test. #significant difference (p ≤ 0.05) between Diabetes control and Diabetes + Green tea groups by student`s t-test. (n = 6 animals/group)