|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Ablation parameter** | **Cases without thermal injury** | **Cases with thermal injury** | **Proportion of points at each AI range (P)** | **z** | **P** |
| **AI <350** | 1400 (13.4%) | 261(13%) | 0.59 | -1.064884 | 0.29 |
| **AI 350-500** | 6938 (66.6%) | 1252 (62.2%) | <0.001 | -3.296474 | <0.001 |
| **AI >500** | 2078 (20%) | 499 (24.8%) | <0.001 | 0.744741 | 0.46 |
| **RF Duration (s)** | 14.6 (10.8-19.9) | 14.5 (10.6-19.5) | na | 0.404627 | 0.69 |
| **Maximum power (W)** | 41(31.1-41.3) | 41 (35.8-41.3) | na | -1.746380772 | 0.08 |
| **Contact force (g)** | 15.9 (10.5-24.4) | 17.8 (10.9-26.5) | Na | -5.082597 | <0.001 |
| **Baseline impedance(Ω)** | 125.8 (116.8-137.1) | 121.8 (111.9-132.2) | na | 10.964265 | <0.001 |
| **Force Time Index (gs)** | 250(168-338) | 267(182-359) | Na | -4.897466 | <0.001 |
| **Impedance Drop (Ω)** | 8.7(6-12) | 8.8(6.2-12) | Na | -0.482046 | 0.63 |

**Supplementary table 3:** Ablation parameters compared between cases with no thermal injury and cases with mucosal injury on endoscopy. The proportion of ablation points at each AI range is also compared between the groups.