**Table 1.** Patients characteristics and pathological findings of Combined MRI-TBx + SBx method and Conventional TRUS-Bx method.

| Variables | Combined MRI-TBx + SBx method (n=127) | | | Conventional TRUS-Bx method (n=330) | p |
|---|---|---|---|---|---|
| Age (year) | 63.6±6.4 (43-77) | | | 62.7±6.8 (42-77) | 0.224 |
| PSA (ng/dl) | 8.1±4.9 (1-31.6) | | | 8.5±4 (1.8-19.9) | 0.327 |
| **Bx schemes** | **SBx** | **TBx** | **Combined TBx + SBx** | **TRUS-Bx** | - |
| Biopsy ISUP Grades — Missed | 31 (24.4) | 13 (10.2) | 0 (0) | 0 (0) | - |
| 1 | 33 (26) | 29 (22.8) | 31 (24.4) | 161 (48.8) | *<0.001 |
| 2 | 36 (28.3) | 48 (37.8) | 51 (40.2) | 100 (30.3) | |
| 3 | 15 (11.8) | 19 (15) | 23 (18.1) | 41 (12.4) | |
| 4 | 5 (3.9) | 9 (7.1) | 11 (8.7) | 17 (5.2) | |
| 5 | 7 (5.5) | 9 (7.1) | 11 (8.7) | 11 (3.3) | |
| RP GS | 7±0.8 (6-10) | | | 7±0.8 (6-9) | 0.623 |
| RP ISUP Grades — 1 | 27 (21.3) | | | 67 (20.3) | 0.966 |
| 2 | 61 (48) | | | 159 (48.2) | |
| 3 | 24 (18.9) | | | 57 (17.3) | |
| 4 | 7 (5.5) | | | 22 (6.7) | |
| 5 | 8 (6.3) | | | 25 (7.6) | |
| Upgrading rate | 26 (20.5) | | | 143 (43.3) | **<0.001** |

* Chi square test was performed between highest ISUP grades of Combined TBx + SBx scheme and Conventional TRUS-Bx.