Supplemental Table 1. Imaging parameters for MRI at our institution and affiliated clinic

(a) Our institution

(b) Our affiliated clinic

|  |  |  |  |
| --- | --- | --- | --- |
| **3.0 T (SKYRA; SIEMENS)** | **T2W** | **DWI** | **DCE MRI** |
| **TR (ms)** | 4000 | 5700 | 3.62 |
| **TE (ms)** | 91 | 70 | 1.34 |
| **Flip angle (degree)** | 150 | 90 | 10 |
| **FOV (mm)** | 240 | 360 | 300 |
| **Matrix** | 448 × 269 | 160 × 128 | 320 × 224 |
| **Slice thickness (mm)** | 4-5 | 5 | 3 |
| **Slice gap (mm)** | 0.5 - 1.0 | 0.5 - 1.0 | 0 |
| **Number of excitations** | 1 | 1-5 | 1 |
| **b values**  T2W; T2-weighted, DWI; diffusion weighted image, DCE MRI; dynamic contrast-enhanced MRI, TR; repetition time, TE; echo time, FOV; field of view |  | 0-1000 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **3.0 T (SKYRA; SIEMENS)** | **T2W** | **DWI** | **DCE MRI** |
| **TR (ms)** | 3000 | 5360 | 4.17 |
| **TE (ms)** | 93 | 66 | 1.48 |
| **Flip angle (degree)** | 142 | 180 | 12 |
| **FOV (mm)** | 200 | 250 | 250 |
| **Matrix** | 384 × 230 | 138 × 77 | 256 × 207 |
| **Slice thickness (mm)** | 3.5 | 3.5 | 2.5 |
| **Slice gap (mm)** | 0.7 | 0.7 | 0.5 |
| **Number of excitations** | 1 | 1-5 | 1 |
| **b values** |  | 0-2000 |  |

Supplemental Table 2. Discordance of VI-RADS between two readers

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Radiologist (Reader 1) | | | | | |
|  | VI-RADS | 1 | 2 | 3 | 4 | 5 | Total |
| Urologist (Reader 2) | 1 |  | 3 | 4 | 0 | 0 | 7 |
| 2 | 2 |  | 16 | 4 | 4 | 26 |
| 3 | 9 | 11 |  | 4 | 0 | 24 |
| 4 | 0 | 4 | 1 |  | 4 | 9 |
| 5 | 0 | 0 | 1 | 5 |  | 6 |
| Total | 11 | 18 | 22 | 13 | 8 | 72 |

**Supplemental Figure legends**

Supplemental Figure 1. Tumor apparent diffusion coefficient (ADC) values according to the presence of muscle invasion. (A) Absolute tumor ADC values for 56 patients at our affiliated clinic. (B) Standardized tumor ADC (sT-ADC) values for 56 patients at our affiliated clinic. The box and bars indicate a range from 25th to 75th percentile and the minimum, median, and maximum values, respectively.

Supplemental Figure 2. (A) The ROC curve of VI-RADS by Reader 1 (radiologist). (B) The ROC curve of combination of VI-RADS and ADC values by Reader 1. (C) The ROC curve of VI-RADS by Reader 2 (urologist). (D) The The ROC curve of combination of VI-RADS and ADC values by Reader 2.

Supplemental Figure 1. Tumor apparent diffusion coefficient (ADC) values according to the presence of muscle invasion. 

Supplemental Figure 2. The ROC curve of VI-RADS by two readers.![テキスト, 地図 が含まれている画像

自動的に生成された説明]()