**Supplementary Tables**

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| **Additional file 1: Table S1.** Details of parameters for MRI imaging protocols. |
| Parameters | T1WI | T2WI | FS-T2WI | DWI | Contrast-enhanced MRI |
| Repetition / echo time (msec) | 550/10 | 4000/83 | 8000/83 | 2800/81 | 4.89/2.38 |
| Echo trains per slice | 44 | 19 | 19 |  |  |
| Sequence  | TSE | TSE | TSE | EP2D | VIBE |
| Bandwidth(Hz) | 178 | 260 Hz | 260 | 1250 Hz | 400 Hz |
| Thickness(mm) | 4 | 4 | 4 | 5 | 3 |
| Field of view (mm) | 350 | 350 | 350 | 300 | 380 |
| Voxel size(mm)  | 1.5×1.1×4.0  | 1.1×1.1×4.0  | 1.4×1.4×4.0 | 2.7×1.9×5.0 | 1.7×1.2×3.0  |
| Flip angle (degrees) | 150  | 144  | 150  |  | 10  |

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|  | **Additional file 1: Table S2.** Statistical difference of ADC measurements in various groups based on clinical and MRI features. |  |
|  | Group items | ADC (mean ± S.D.) × 10-3s/m2 | P value |  |  |
|  | Clinical features |  |  |  |  |
|  | *CA-125 level(U/L)* |  | 0.000 |  |  |
|  | <500 | 1105 ± 475 |  |  |  |
|  | >500 | 851 ± 231 |  |  |  |
|  | *Maximum diameter(cm)* |  | 0.424 |  |  |
|  | <10 | 1009 ± 413 |  |  |  |
|  | >10 | 1096 ± 481 |  |  |  |
|  | *Ki67 expression* |  | 0.000 |  |  |
|  | <50% | 1109 ± 453 |  |  |  |
|  | >50% | 795 ± 234 |  |  |  |
|  | *FIGO*  |  | 0.01 |  |  |
|  |  I and II  | 1059 ± 47.8 |  |  |  |
|  | III and IV | 902 ± 29.3 |  |  |  |
|  | *Relapse or dead* |  | 0.672 |  |  |
|  | yes | 1025 ± 376 |  |  |  |
|  | no | 1056 ± 456 |  |  |  |
|  | MRI features |  |  |  |  |
|  | *Component* |  | 0.000 |  |  |
|  | solid | 1046 ± 444 |  |  |  |
|  | mixed | 1163 ± 490 |  |  |  |
|  | cystic  | 840 ± 323 |  |  |  |
|  | *T1 high signal*  |  | 0.000 |  |  |
|  | present | 1209 ± 437 |  |  |  |
|  | absent | 977 ± 431 |  |  |  |
|  | *Septa* |  |  |  |  |
|  | present | 1213 ± 509 | 0.000 |  |  |
|  | absent | 950 ± 370 |  |  |  |

**Figure legends**

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**Additional file 1: Figure S1**. A 66-years old woman with clear cell tumor (Ic). On sagittal fs-T2WI(A)，the mainly solid tumor (arrow) centrally occupied the pelvisand the mass showed avid enhancement on post-enhanced images(B) and the mass backwardly invaded the anterior wall of rectum(arrow head); On DWI, the solid tumor showed high signal and the corresponding ADC value (D) was 1134(853-1446) ×10-3s/m2. Note, the enlarged node (arrow) beside the iliac artery. Haematoxylin and eosin staining of tumor (original magnification × 400, E) and Ki-67 stain picture (original magnification × 100, 5% expression in one view field, F).

**Additional file 1: Figure S2**. Stem-and-Leaf Plots of the calculated ADC values (10-3/mm2/s) within between Type I and Type II cancer group.

**Additional file 1: Figure S3**. Scatter Plots of Ki-67 expression and the mean ADC value in Type II cancer group.