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| **Supplementary data 1: the prostate MR imaging parameters at 1.5 T** |
| **Parameters** | **Imaging Sequence** |
| **T2WI** | **DWI** | **DCE\*** | **MRSI** |
| Protocol  | FSE | SE-EPI | 3D-GRE | 3D-PRESS |
| Repetition time (msec) | 3500 | 3500 | 4.0 | 1000 |
| Echo time | 85 | 56.4 | 1.9 | 130 |
| Field of view (cm2) | 24 | 26 | 36 | 11 |
| Matrix  | 320×256 | 128×128 | 256 × 256 × 48 | 16×8×8 |
| Section thickness (mm) | 4 | 5 | 3.8 |  |
| Flip angle (degree) | 90, 180 | 90 | 15 | 180 |
| B value (sec/mm2) | … | 0, 800 | … | … |
| No. of temporal acquisitions | … | … | 15 | … |