**Table S1. Scan parameters of imaging sequences.**

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| --- | --- | --- | --- |
|  | **Multi-echo Dixon** | **T1-weighted TSE** | **PD TSE FS** |
| **Repetition time (ms)** | 9.07 | 550 | 4090 |
| **Echo time (ms)** | 1.26 | 8.9 | 63 |
| **Flip angle (°)** | 4 | 160 | 150 |
| **Number of averages** | 2 | 1 | 1 |
| **Reconstruction resolution (mm)** | 1.61 | 1.04 | 0.94 |
| **Matrix size** | 224\*155 | 326\*384 | 198\*384 |
| **Field of view (mm)** | 314\*359 | 399\*399 | 247\*360 |
| **Section thickness (mm)** | 4 | 5 | 5.5 |
| **Gap (mm)** | 0 | 0.75 | 0.83 |
| **Scan time(s)** | 100-121 | 55 | 66 |

**TSE**: turbo spin echo; **PD**: proton density; **FS**: fat saturated