|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PARAMETER** | **T1 weighted imaging** | | **Diffusion weighted imaging** | **DIXON fat/water** |
| **MRI platform** | 1.5-T scanner (Avanto or Aera, Siemens Healthcare) | | | |
| **Type of pulse sequence** | Spoiled gradient echo (FLASH) | Single-shot twice-refocused echo-planar imaging | | fl3d\_vibe |
| **Respiration** | Breath-hold | Free-breathing | | Breath-hold |
| **Acquisition plane** | Axial | Axial | | Coronal |
| **Type of acquisition** | 2D | 2D | | 3D |
| **Field of view (mm)** | 380-420 | 380-420 | | 450 |
| **In-plane resolution (mm2)** | 1.6 x 1.6 | 2.5 x 2.5 | | 1.6 x 1.6 |
| **Section thickness (mm)** | 5 | 5 | | 5 |
| **Repetition time (ms)** | 380 | 14000 | | 7 |
| **Echo time (ms)** | 5 | 68 | | TE1=2.38; TE2=4.76 |
| **Inversion time (ms)** | NA | 180 | | NA |
| **Flip angle** | 70 | 90 | | 3 |
| **Fat suppression** | NA | STIR | | NA |
| **Receiver bandwidth (Hz/pixel)** | 331 | 1800 | | 490 |
| **Number of signal average** | 1 | 4 | | 1 |
| **Parallel imaging factor** | 2 | 2 | | 4 |
| **b factors (s/mm2)** | NA | 50 and 900 | | NA |
| **Number stations** | 4 (50 slices each) | 4 (50 slices each) | | 2 (52 slices each) |

**Supplementary Table 1.** Whole body MRI acquisition parameters.