

Supplemental Material

Gd-EOB-DTPA enhanced MRI and DWI protocols

All patients underwent both the Gd-EOB-DTPA enhanced MRI and DWI scans using 3.0T MRI scanners (Prisma, Siemens Healthcare, Erlangen, Germany; MAGNETOM Verio, Siemens Healthcare, Erlangen, Germany; Discovery MR750, GE Healthcare, Waukesha, the United States). All patients fasted for 6 hours prior to MR examinations. The MRI sequences included the following: (*a*) T2-weighted imaging; (*b*) diffusion-weighted imaging (b values: 0, 50, 500, 800 and 1000 s/mm² (Prisma, Siemens Healthcare); 0, 50, 400, and 700 s/mm² (MAGNETOM Verio, Siemens Healthcare); 0, 200, 800, and 1000 s/mm² (Discovery MR750, GE Healthcare) with apparent diffusion coefficient maps reconstructed using the monoexponential model; (*c*) T1-weighted imaging; and (*d*) dynamic T1-weighted imaging before and after injection of EOB in the late arterial phase, portal venous phase (60 s after start of contrast media injection), and hepatobiliary phase (15min or 20min after start of contrast media injection). The arterial phase images were achieved either with acquisition triggered 7s after arrival of the contrast bolus in the celiac trunk or a multiple arterial phase (MAP) imaging technique. Specifically, the MAP images were acquired with an 18 s breath hold 20s after start of contrast media injection, and further reconstructed with a temporal resolution of 3 s. 0.025 mmol/kg of EOB (Primovist®; Bayer Schering Pharma AG, Berlin, Germany) was injected at a rate of 1.0 ml/s, with an immediately followed 20 ml saline flush. MR acquisition parameters are detailed in **Supplemental Table 1**.

Sequence	Fat suppression	TR (ms)	TE (ms)	Flip angle (°)	ST (mm)	Spacing (mm)	Matrix size	FOV (mm²)
Siemens Prisma (16-channel body array coil)								
T2-weighted 2D FSE	Yes	2930	189	150	6	1.8	320x288	350x350
Diffusion-weighted imaging*	Yes	9000	66	90	6	1.8	148x80	380x380
T1-weighted imaging	No	3.9	1.4	15	6	1.8	352x286	350x350
Dynamic T1-weighted 3D GRE	Yes	3.95	1.92	9	2.5	0	352x256	350x350
Siemens MAGNETOM Verio (16-channel body array coil)								
T2-weighted 2D FSE	Yes	2500	73	160	6	1.8	320x288	380x380
Diffusion-weighted imaging*	Yes	8200	61	90	5	1.8	128x106	380x380
T1-weighted imaging	No	3.9	1.4	15	6	1.8	352x286	380x380
Dynamic T1-weighted 3D GRE	Yes	3.4	1.22	10.5	2	0	320x224	4380x380
GE Discovery MR 750 (16-channel phased-array torso coil)								
T2-weighted 2D FSE	Yes	6315	78	111	6	2	288x244	360x280
Diffusion-weighted imaging*	Yes	9230	Minimum	90	6	2	128 x 128	360x 380

T1-weighted imaging	No	7.6	1.3	8	6	2	288x192	420x420
Dynamic T1-weighted 3D GRE	Yes	4.1	1.9	15	2	0	512x512	380x 300

Supplemental Table 1. MR Sequences and Parameters