Supplementary Methods

Supplementary Method S1. Abdominopelvic CT Acquisition.

Abdominopelvic CT examinations were performed using multidetector scanners (SOMATOM Definition Edge and SOMATOM Definition Force, Siemens Healthineers, Erlangen, Germany; Discovery CT750 HD, GE Healthcare, Waukesha, WI, USA). The routine protocol consisted of a single portal venous phase. Patients received approximately 0.521 gI/kg of iodinated contrast medium, including Ioversol (Optiray® 320; Guerbet, Paris, France), Iohexol (Iobrix® 300; Taejoon Pharmaceutics, Seoul, Korea), Iomeprol (Iomeron® 350; Bracco Imaging, Milan, Italy), or Iopromide (Ultravist® 300; Bayer AG, Berlin, Germany), injected at 2–2.5 mL/s via an antecubital vein, followed by a 20 mL saline flush. Scanning began 75 s after injection and extended from the lung bases to 5 cm below the ischial tuberosities. Acquisition parameters included tube voltage 70–100 kVp, tube current–time product 167–708 mAs, pitch 0.7–1.1, rotation time 0.5–0.6 s, and slice thickness 5 mm without overlap. Automatic tube voltage selection and current modulation were applied to all scans.

Supplementary Method S2. Breast MRI Acquisition and Post-processing.

Protocol component	Vida (Siemens)	Common settings / notes
General MRI setup	3.0 T Patient position: Prone Breast coil model/type: Breast-18ch Number of channels: 18	Dedicated bilateral breast coil
T2-weighted imaging	Sequence: TSE Dixon TR/TE (ms): 5950 / 94 FOV (mm): 320 x 320 Matrix: 448 x 314 Slice thickness (mm): 3	-
Diffusion-weighted imaging	Sequence: RESOLVE TR/TE (ms): 6490 / 61 FOV (mm): 350 x 210 Matrix: 256 x 154 In-plane resolution (mm): 1.37 x 1.37 Slice thickness (mm): 3 Acquisition time: 6 min 11 s b values (s/mm2): 0, 500, 1000	-
DCE T1-weighted imaging	Sequence: 3D VIBE TR/TE (ms): 4.68 / 2.27 FOV (mm): 340 x 340 Matrix: 448 x 358 Slice thickness (mm): 1	Fat suppression for all DCE acquisitions
Ultrafast acquisition	Start time after contrast administration: 10 s Temporal resolution: 4.18 s Duration: 1 min 25 s Reconstruction: compressed sensing	Continuous ultrafast series acquired before the five conventional phases.
Conventional dynamic acquisition	Start times after contrast administration (s): 93, 176, 259, 342, and 425 Number of phases: 5	Five conventional postcontrast phases followed the ultrafast series.
Post-processing	Software: Syngo MR XA31	MIP and subtraction images were generated for each postcontrast phase.
Contrast agent	Gadobutrol (Gadovist), 0.1 mmol/kg IV	-