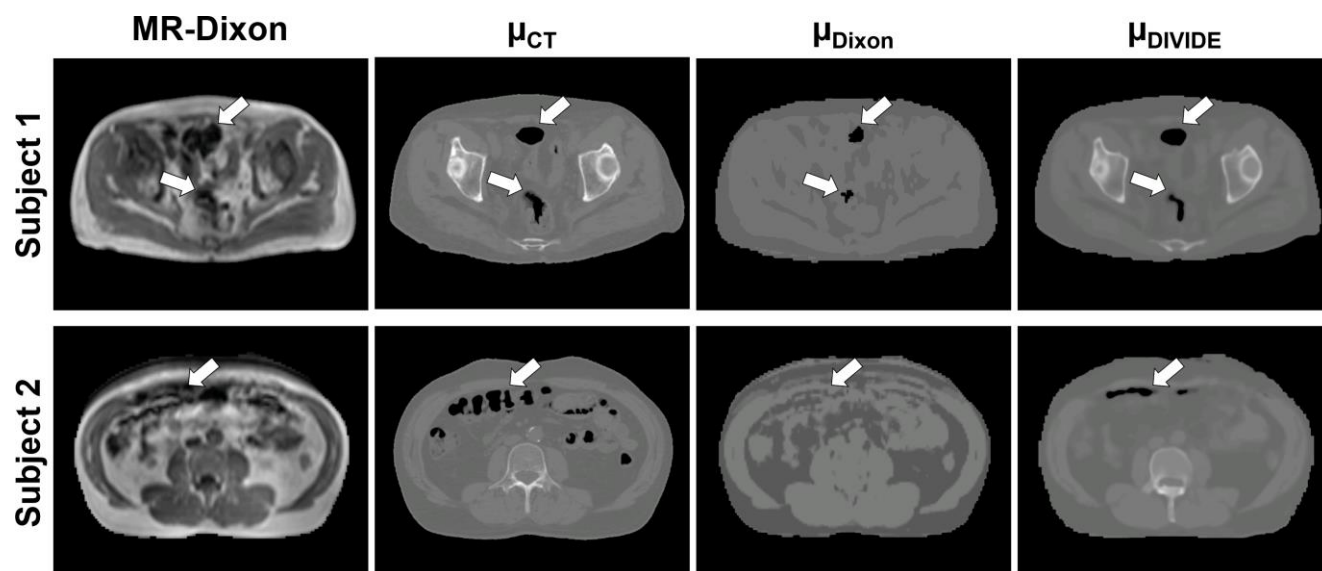


Supplemental Figure 1. Training error as a function of the number of iterations of the pretrained model compared to training from a noise distribution. Hounsfield Units (HU) error was computed as the L1-norm between the ground truth CT and the output pseudo-CT in each iteration.



Supplemental Figure 2. Comparison of original MR and corresponding CT- and MR-based attenuation maps for a subject without (subject 1) and with (subject 2) air pockets displacement between acquisitions. Subject 1 shows a good agreement between air pockets observed in the μ_{CT} and μ_{DIVIDE} , while μ_{Dixon} fails to capture the whole extent of the air pockets. Subject 2 shows an acceptable agreement between air pockets observed in the original MR and μ_{DIVIDE} , while more and fewer air pockets were observed in the μ_{CT} and μ_{Dixon} , respectively.

ID	Disease	Age	Gender	Weight	BMI	Radiotracer	Injected Dose (MBq)
01	RCa	80	M	80	23.39	¹⁸ F-FDG	286
02_01	RCa	67	M	82	24.55	¹⁸ F-FDG	425
02_02		68		55	16.47	¹⁸ F-FDG	419
02_03		68		82	24.55	¹⁸ F-FDG	425
03	PCa	71	M	78	23.35	¹⁸ F-FDG	259
04	PCa	77	M	64	19.16	¹⁸ F-FDG	412
05_01	RCa	44	F	69	21.17	¹⁸ F-FDG	413
05_02		44		69	21.17	¹⁸ F-FDG	415
06_01	RCa	66	F	53	17.43	¹⁸ F-FDG	339
06_02		66		53	17.43	¹⁸ F-FDG	311
07	PCa	62	M	92	24.21	¹⁸ F-Choline	273
08_01	RCa	57	F	75	24.35	¹⁸ F-FDG	389
08_02		58		80	25.97	¹⁸ F-FDG	418
08_03		58		70	22.73	¹⁸ F-FDG	416
09	PCa	67	M	73	21.10	¹⁸ F-Choline	348
10_01	RCa	54	F	80	24.24	¹⁸ F-FDG	421
10_02		55		62	18.79	¹⁸ F-FDG	383
10_03		56		58	17.58	¹⁸ F-FDG	404
11	PCa	70	M	78	23.21	¹⁸ F-FDG	187
12_01	RCa	46	M	82	23.30	¹⁸ F-FDG	413
12_02		46		82	23.30	¹⁸ F-FDG	404
13	RCa	52	M	110	29.73	¹⁸ F-FDG	423
14	RCa	48	M	80	22.22	¹⁸ F-FDG	410
15	RCa	66	F	61	20.33	¹⁸ F-FDG	387
16	PCa	59	M	75	21.80	¹⁸ F-Choline	252
17	RCa	74	F	55	18.33	¹⁸ F-FDG	446
18	RCa	54	M	86	23.50	¹⁸ F-FDG	359
19	RCa	53	F	55	18.33	¹⁸ F-FDG	289
Summary	6PCa/13RCa	61.42±10.63	12M/7F	75.16±13.88	22.30±2.80	16FDG/3Cho	378.12±64.10

Supplemental Table 1. Patient demographics, disease diagnoses, PET radiotracers and injected doses.