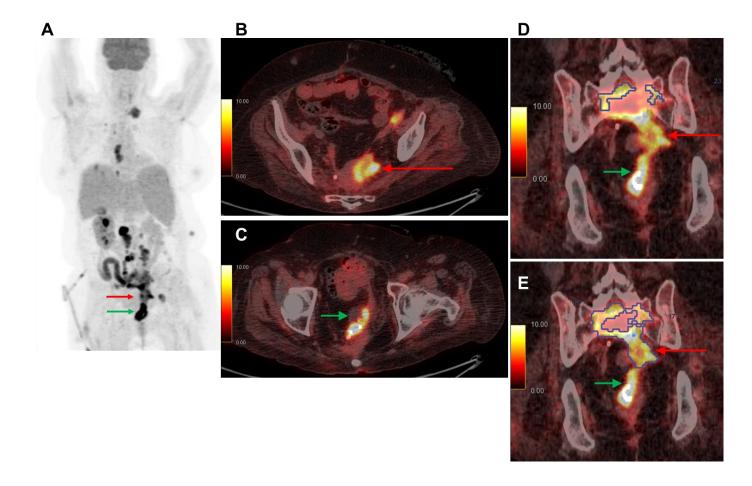


Supplemental FIGURE 1. Bland-Altman plots for baseline WB-MATV (A), WB-TLG (B), and reference VOI thresholds (C). Each dot represents a patient viewed by the two observers (total, 100 patients). x-axis represents the mean measurement of the two observers. y-axis represents average difference of the measurement between the two observers. Solid line represents average bias, and dashed lines represent corresponding bias ± 2 SDs.



Supplemental FIGURE 2. The main cause of variability between observers, who were completely unaware of clinical history for both WB-MATV and WB-TLG measurements, was the difference in selection of target lesions. PET maximum-intensity projection (A), axial fused PET/CT images (B, C), and coronal fused PET/CT images (D, E) of the example case. A metabolically active lesion located in the pelvic cavity (red arrow), with an equivocal origin (inflammatory/infectious or tumoral) and too close to urinary activity (green arrow), was not taken into consideration for WB-MATV/TLG measurements by observer 1 (D) (WB-MATV and TLG of observer 1: 78 cm³ and 319 g; inferior to the cutoff values of MATV [100 cm³] and TLG [500 g]) but was measured by observer 2 (E) (WB-MATV and TLG of observer 2: 176 cm³ and 712 g, respectively).

Supplemental TABLE 1. Survival characteristics of the pooled, development, and validation sets from SoMore-RegARd-C population.

	Pooled population (n = 224)	Development set (n = 155)	Validation set (n = 69)
Median OS			
Months	6.9	6.7	7.5
95% CI	6.2–8.1	5.4–8.1	6.2-10.8
No. of deaths	217	151	66
Median PFS			
Months	3.3	3.2	3.3
95% CI	2.2–3.7	2.1–3.9	2.0-3.8
No. of progressive events	224	155	69

Supplemental TABLE 2. Agreement between the dichotomized WB-MATV and WB-TLG measurements for the development set.

	WB-MATV		
WB-TLG	< 100	≥ 100	Total
< 500	113	5	118
≥ 500	7	30	37
Total	120	35	155

Supplemental TABLE 3. Contingency tables showing the agreement between the two observers of WB-MATV and WB-TLG measurements and discrepancy cases between categorization (cases assigned to a different category [low versus high tumor load] by the two observers) amongst the set of 100 patients measured by the two observers.

WB-MATV		Observer 1		
		< 100	≥ 100	Total
Observer 2	< 100	34	1	35
	≥ 100	3	62	65
	Total	37	63	100

WB-TLG		Observer 1		
		< 500	≥ 500	Total
Observer 2	< 500	38	3	41
	≥ 500	2	57	59
	Total	40	60	100