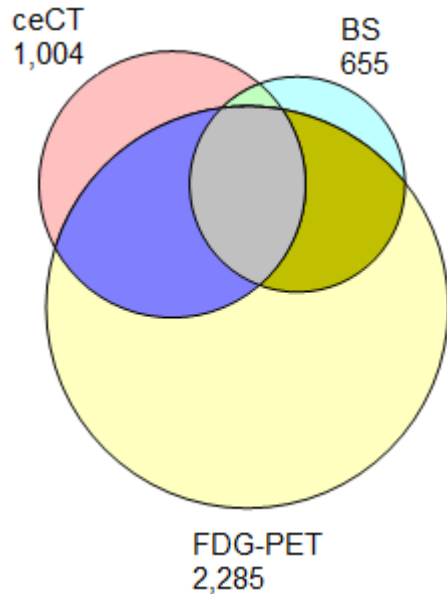


**Supplemental Figure 1.** Venn diagram of the visualized metastases on ceCT, <sup>99m</sup>Tc bone scintigraphy (BS), <sup>18</sup>F-fluorodeoxyglucose-PET (FDG-PET).



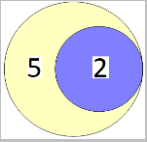

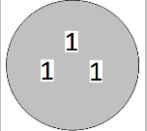
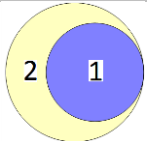
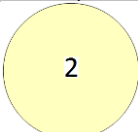
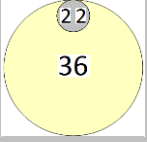
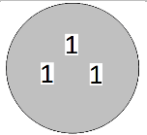
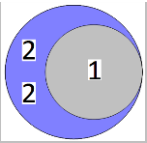
**Supplemental Table 1.** Agreement between ceCT, BS and FDG-PET in detecting suspected bone lesions.

	Per patient <sup>1</sup>	Per lesion <sup>2</sup>
	Kappa (95%CI)	Multilevel Kappa (95%CI)
ceCT versus BS	0.67 (0.52;0.82)	0.11 (0.02;0.20)
ceCT versus FDG-PET	0.67 (0.52;0.82)	-0.14 (-0.23;-0.04)
BS versus FDG-PET	0.54 (0.37;0.71)	-0.05 (-0.09;0.00)
Across modalities (Fleiss' Kappa)	0.62 (0.51;0.73)	-0.17 (-0.21;-0.13)

<sup>1</sup>102 patients; <sup>2</sup>3473 unequivocal bone lesions in 84 patients

Abbr. ceCT = contrast enhanced computed tomography; BS = <sup>99m</sup>Tc-DP whole body bone scintigraphy; FDG-PET = <sup>18</sup>F-fluorodeoxyglucose-PET; CI = confidence interval

**Supplemental Table 2.** Table reflecting the cases with clinically relevant change of management by FDG-PET plus ceCT compared to BS plus ceCT (patient 1-16) and change of management by BS plus ceCT compared to FDG-PET plus ceCT (patient 17).

Patient	Number of Bone lesions	Setting	Systemic therapy	Bisphosphonate	Radiotherapy	Additional FDG-PET (1) or BS (2) needed
1		curative non-curative	unknown chemo	no yes	=	1
2		=	=	no yes	=	0
3		unknown curative	unknown anti-hormonal	=	unknown curative	1
4		curative non-curative	=	no yes	curative no	1
5	0 (BS: 10 equivocal lesions)	unknown non-curative	unknown chemo	=	=	1
6		=	=	no yes	no curative	1
7		curative non-curative	=	=	No non-curative	1
8		unknown curative	unknown anti-hormonal	unknown yes	unknown curative	1
9		=	=	no yes	=	0

10		curative non-curative	no anti-hormonal	no yes	curative no	0
11		curative non-curative	unknown chemotherapy	no yes	=	1
12		=	=	no yes	=	1
13		=	=	no yes	=	1
14		unknown non-curative	=	=	curative no	1
15		=	=	=	no non-curative	0
16		=	=	no yes	=	0
17		Unknown non-curative	Unknown anti-hormonal	=	=	2

Venn diagram: the numbers in the circles reflect the number of bone lesions per modality, ceCT is red, BS is baby blue, FDG-PET is yellow. Overlap between all 3 modalities is grey; ceCT and FDG-PET is dark blue; BS and FDG-PET is green. '=' means equal management recommendation between BS plus ceCT and FDG-PET plus ceCT; in case of discordance, the recommendations based on BS plus ceCT are blue and those based on FDG-PET plus ceCT are red.  
 Abbr. BS = <sup>99m</sup>Tc-DP whole body bone scintigraphy; FDG-PET = <sup>18</sup>F-fluorodeoxyglucose-PET.