**SUPPLEMENTAL DATA**

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| **Supplemental Table 1. Definitions of Response by RECIST 1.1** | |
| **Complete response** | Resolution of all target and non-target lesions  No new lesions |
| **Partial response** | ≥30% decrease in sum of diameters of target lesions  No new lesions |
| **Progressive disease** | >20% and absolute 5 mm increase in sum of diameters of target lesions; unequivocal progression of nontarget lesions; or new lesions |
| **Stable disease** | Not complete response, partial response or progressive disease |

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| **Supplemental Table 2. Number of baseline bone lesions visible on FDG-PET/CT versus CT and bone scan for 22 patients** | | | | |
|  | **CT positive** | **CT negative** | **Bone positive** | **Bone negative** |
| **PET positive** | 55 | 10 | 40 | 25 |
| **PET negative** | 0 | 0 | 0 | 0 |
|  |  |  |  |  |
| **Bone positive** | 33 | 7 |  |  |
| **Bone negative** | 23 | 3 |  |  |

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| **Supplemental Table 3. Inter-reader Agreement for Detection of PET Positive Lesions on CT and Bone Scan** | | | | | |
|  | **Reader 2 – CT** | |  | **Reader 2 – Bone Scan** | |
| **Reader 1 – CT** | **Positive** | **Negative** | **Reader 1** | **Positive** | **Negative** |
| **Positive** | 44 | 1 | **Positive** | 30 | 4 |
| **Negative** | 4 | 6 | **Negative** | 5 | 16 |
| **Agreement** | 90.9% | | **Agreement** | 83.6% | |
| **Kappa** | 0.654 (95% CI 0.377-0.931) | | **Kappa** | 0.650 (95% CI 0.442-0.858) | |

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| **Supplemental Table 4. Combined results of percent change in SUVmax, SULpeak, and Hounsfield units (HU) between baseline and week 8 scans in up to the 5 hottest lesions and single hottest lesion.** | | | | | | |
| **Patient** | **% change** | | | | | |
| **in SUVmax** | | **in SULpeak** | | **in HU** | |
| **single hottesta,c** | **5 hottestb,d** | **single hotteste** | **5 hottestf** | **single hottest** | **5 hottest** |
| 1 | -31.57 | -20.38 | -34.02 | -20.39 | 2.01 | 16.15 |
| 2 | 4.53 | 0.55 | 8.97 | 3.27 | 24.29 | 4.99 |
| 4 | -19.07 | -19.07 | -14.04 | -14.04 | 1.11 | 7.46 |
| 5 | -29.36 | -29.63 | -26.39 | -27.59 | 27.04 | 4.96 |
| 7 | 37.17 | 37.17 | 31.4 | 31.4 | -7.02 | -0.39 |
| 9 | -15.82 | -3.15 | -10.34 | 0 | -4.97 | 28.82 |
| 10 | -42.92 | -42.92 | -46.69 | -46.69 | -11.65 | -11.65 |
| 11 | -48.83 | -30.48 | -40.84 | -20.88 | 54.84 | 14.42 |
| 12 | -58.62 | -58.66 | -54.09 | -57.89 | -23.23 | -12.97 |
| 13 | 2.98 | -4.83 | 5.18 | -6.9 | 11.24 | 36.98 |
| 14 | -61.01 | -57.8 | -59.73 | -56.41 | -25.22 | -5.26 |
| 16 | 3.98 | 3.98 | 18.69 | 18.69 | -27.93 | -27.93 |
| 19 | -50 | -52.01 | -49.71 | -52.41 | -43.62 | -30.8 |
| 20 | -44.41 | -51.61 | -47.75 | -53.85 | -11.91 | -5.87 |
| 21 | -3.85 | -13.9 | -15.25 | -15.06 | -7.13 | -15.17 |
| 22 | -34.51 | -34.51 | -28.35 | -28.35 | -109.21 | -109.21 |
| aCorrelation single hottest SUVmax to single hottest SUVpeak: r=0.97  bCorrelation 5 hottest SUVmax to 5 hottest SUVpeak: r=0.98  cCorrelation of single hottest SUVmax to single hottest HU: r=0.17  dCorrelation of 5 hottest SUVmax to 5 hottest HU: r=0.27  eCorrelation of single hottest SUVpeak to single hottest HU: r=0.16  fCorrelation of 5 hottest SUVpeak to 5 hottest HU: r=0.22 | | | | | | |