

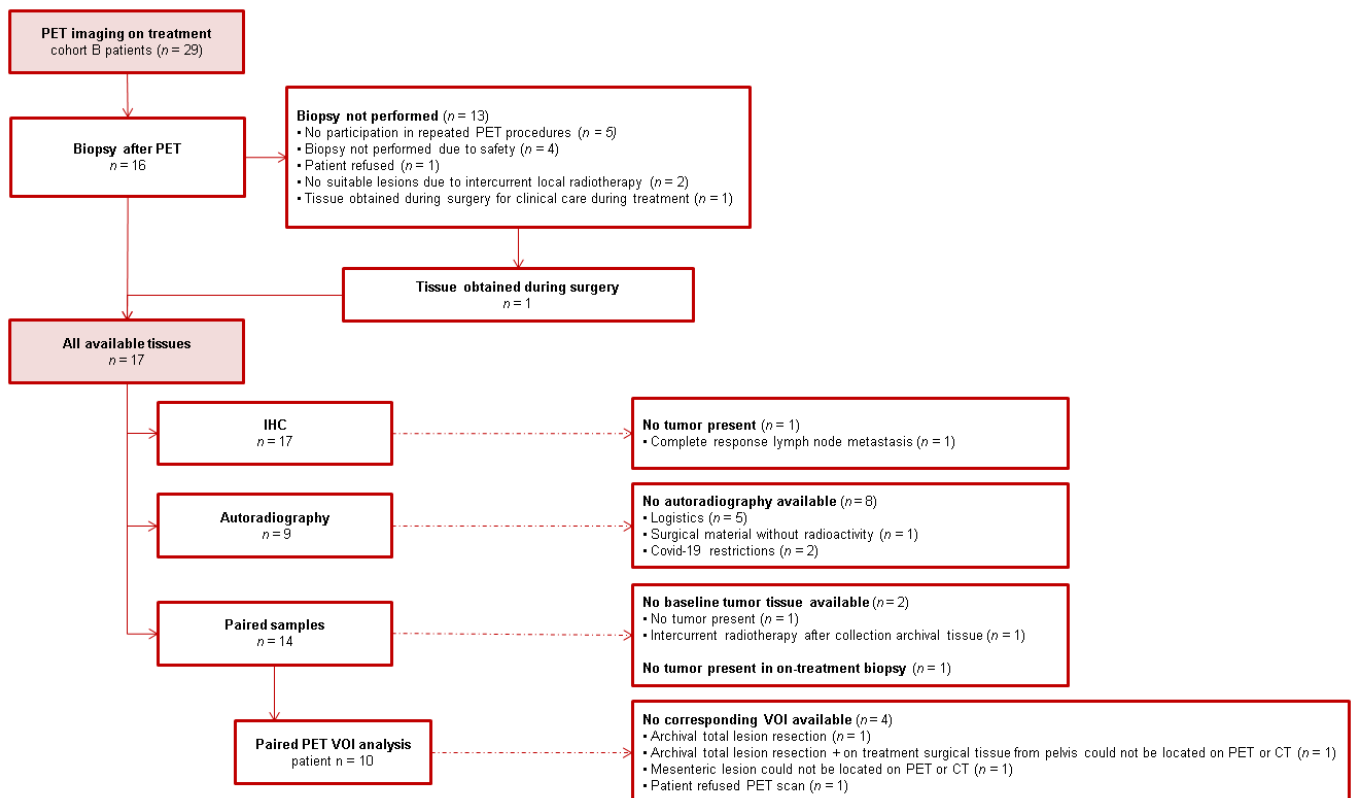
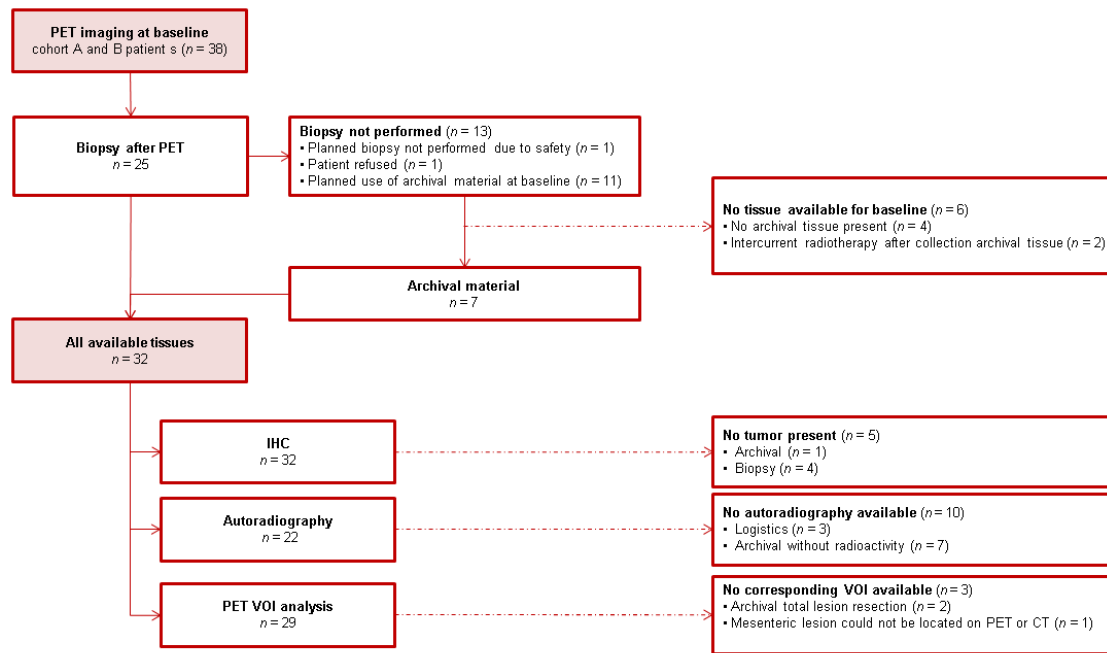
Whole-body CD8⁺ T cell visualization before and during cancer immunotherapy: a phase 1/2 trial

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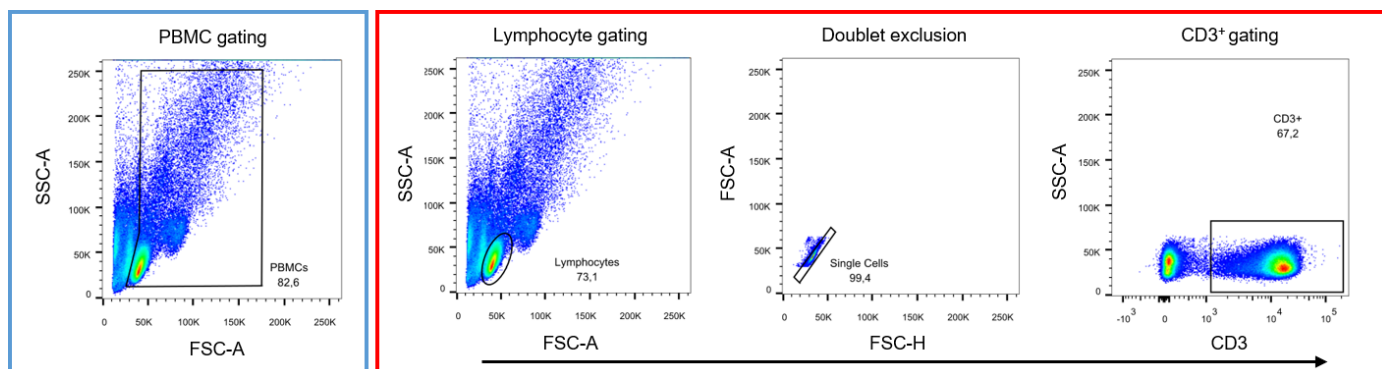
Supplementary Information

Whole-body CD8⁺ T-cell visualization before and during cancer immunotherapy: a phase 1/2 trial

Kist de Ruijter, et al.



Supplementary information Figure S1 | Flow charts indicate the number of tumour tissues available for analysis at baseline and during treatment. IHC, immunohistochemistry. VOI, volume of interest.



Supplementary information Figure S2 | Flow cytometry gating strategy used in internalization experiments, supplementary to Extended Data Figure 7. Peripheral blood mononuclear cells (PBMCs) were gated in a forward scatter (FSC) versus side scatter (SSC) dot plot. Lymphocytes were gated in an FSC versus SSC dot plot, doublets were excluded by plotting FSC height (FSC-H) versus area (FSC-A). CD3 positive T cells were gated on the anti-human peridinin chlorophyll protein complex-cyanine5.5 (PerCP/Cy5.5)-CD3 staining.

Binding/internalization of CED88004S was detected using an anti-human allophycocyanin-IgG F(ab')₂ fragment within the total PBMC population (blue) or CD3⁺ cell population (red). At least 10,000 events were measured within the CD3⁺ cell population. CED88004S membrane binding is expressed as mean fluorescent intensity (MFI), and no cell sorting was applied. Samples were measured in duplicate and corrected for background fluorescence and non-specific antibody binding.

Supplementary information Table S1 | Release specification of ⁸⁹ZED88082A

Test	Method	Specification
Appearance	Visual inspection	Colourless to light yellow
pH	Ph. Eur.	5.2 – 5.8
Filter integrity	Bubble point test	< 20%
Strength	Radioactive concentration	8.88 – 13.32 MBq/ml
Purity	SE-UPLC	RCP, main peak: ≥ 85.0% RCP, radioactive HMWF: ≤ 10.0% RCP, radioactive LMWF: ≤ 10.0% Protein purity main peak: ≥ 95.0%
Protein concentration	UV-VIS	0.30 – 0.50 mg/ml
Immunoreactive fraction	SE-UPLC	≥ 70%
Bacterial endotoxins	Endosafe	< 2.5 EU/ml
Sterility^a	Sterility test	No growth

^aPost-release test; Results 14 days after inoculation. EU/ml: Endotoxin units per millilitre, HMWF: High molecular weight fraction, LMWF: Low molecular weight fraction, Ph. Eur.: European Pharmacopeia, RCP: Radiochemical purity, SE-UPLC: Size-exclusion ultra-performance liquid chromatography.