|  |
| --- |
| **Table S1.** Patient and Imaging Characteristics (*n*=20) |
| Sex and age | Values for age |
| Mean (range) age (in years) |  50.0 (23–84) |
| Mean (range) weight (in kg) | 81 (47–130) |
| Men |  8 |
| Women |  12 |
| Lymphoma subtype | Number of patients |
| Hodgkin lymphomaHigh clinical suspicion, NOSNHL- DLBCL- Follicular lymphoma- ALCL- BCL NOS- NHL NOS | 5114- 6- 2- 1- 3- 2 |
| Indication | Number of patients |
| Initial stagingAssessment of treatment responseSuspicion for recurrence | 6122 |
| Imaging characteristics |  |
| Mean administered activity ±SDMean uptake time ± standard deviation | 340±7273±11 |

 NOS: Non otherwise specified; NHL: Non-Hodgkin lymphoma; DLBCL: Diffuse B-Cell

Lymphoma; ALCL: anaplastic large-cell lymphoma; BCL: B-cell lymphoma, NHL: Non-

Hodgkin lymphoma

**Table S2**

 Overview of the Lesion detectability using images reconstructed with OSEM-TOF+PSF 4i (served as reference) in comparison with the detectability using images reconstructed with OSEM-TOF 4i (short) and OSEM-TOF 2i (reduced).

|  |  |  |  |
| --- | --- | --- | --- |
| Patient No. | OSEM-PSF+TOF 4i (reference) | OSEM-PSF+TOF 4i (reduced) | OSEM-PSF+TOF 2i (reduced) |
| 5 | 1/0/0 (II) | 1/0/0 (II) | 1/0/0 (II) |
| 9 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 10 | 0/0/1 (IV) | 0/0/1 (IV) | 0/0/1 (IV) |
| 11 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 12 | 0/0/1 (I) | 0/0/1 (I) | 0/0/1 (I) |
| 13 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 14 | 1/1/0 (III) | 1/1/0 (III) | 1/1/0 (III) |
| 15 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 16 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 17 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 18 | 1/0/1 (IV) | 1/0/1 (IV) | 1/0/1 (IV) |
| 19 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 20 | 1/1/0 (III) | 1/1/0 (III) | 1/1/0 (III) |
| 21 | 1/0/0 (I) | 1/0/0 (I) | 1/0/0 (I) |
| 22 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 23 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 24 | 0/1/0 (II) | 0/1/0 (II) | 0/1/0 (II) |
| 25 | 1/0/0 (II) | 1/0/0 (II) | 1/0/0 (II) |
| 26 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 27 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |

Supradiaphragmal positive? / infradiaphragmal positive? / Extranodal positive? (Ann-Arbor-Stage); „1“: yes, „0“: no

**Table S3**

Overview of the lesion detectability using images reconstructed with OSEM-TOF 4i (served as reference) in comparison with the detectability using images reconstructed with OSEM-TOF 4i (short) and OSEM-TOF 2i (reduced).

|  |  |  |  |
| --- | --- | --- | --- |
| Patient No. | OSEM-TOF 4i (reference) | OSEM-TOF 4i (reduced) | OSEM-TOF 2i (reduced) |
| 5 | 1/0/0 (II) | 1/0/0 (II) | 1/0/0 (II) |
| 9 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 10 | 0/0/1 (IV) | 0/0/1 (IV) | 0/0/1 (IV) |
| 11 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 12 | 0/0/1 (I IS) | 0/0/1 (IS) | 0/0/1 (IS) |
| 13 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 14 | 1/1/0 (III) | 1/1/0 (III) | 1/1/0 (III) |
| 15 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 16 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 17 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 18 | 1/0/1 (IV) | 1/0/1 (IV) | 1/0/1 (IV) |
| 19 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 20 | 1/1/0 (III) | 1/1/0 (III) | 1/1/0 (III) |
| 21 | 1/0/0 (I) | 1/0/0 (I) | 1/0/0 (I) |
| 22 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 23 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 24 | 0/1/0 (II) | 0/1/0 (II) | 0/1/0 (II) |
| 25 | 1/0/0 (II) | 1/0/0 (II) | 1/0/0 (II) |
| 26 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |
| 27 | 0/0/0 (0) | 0/0/0 (0) | 0/0/0 (0) |

Supradiaphragmal positive? / infradiaphragmal positive? / Extranodal positive? (Ann-Arbor-Stage); „1“: yes, „0“: no