Dual-Layer Spectral Detector CT in Comparison with FDG-PET/CT for the Assessment of Lymphoma Activity

Dual-Layer Spektraldetektor-CT im Vergleich mit FDG-PET/CT zur Beurteilung von Lymphomaktivität

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ABSTRACT

Purpose In patients with malignant lymphoma, disease activity is recommended to be assessed by FDG-PET/CT and the Deauville five-point scale (5-PS). The purpose of this study was to explore the potential of iodine concentration measured in contrast-enhanced dual-layer spectral detector CT (SDCT) as an alternative surrogate parameter for lymphoma disease activity by investigating its correlation with maximum standardized uptake values (SUV$_{max}$) and 5-PS.

Materials and Methods 25 patients were retrospectively analyzed. Contrast-enhanced SDCT and FDG-PET/CT were performed in the same treatment interval within at most 3 months. CT attenuation values (AV), absolute iodine concentrations (aIC), and normalized iodine concentrations (nIC) of lymphoma lesions were correlated with SUV$_{max}$ using Spearman’s rank correlation coefficient. The performance of aIC and nIC to detect lymphoma activity (defined as 5-PS > 3) was determined using ROC curves.

Results 60 lesions were analyzed, and 31 lesions were considered active. AV, aIC, and nIC all correlated significantly with SUV$_{max}$. The strongest correlation (Spearman $\rho = 0.71$; $p < 0.001$) and highest area under the ROC curve (AUROC) for detecting lymphoma activity were observed for nIC normalized to inferior vena cava enhancement (AUROC = 0.866). The latter provided sensitivity, specificity, and diagnostic accuracy of 87 %, 75 %, and 80 %, respectively, at a threshold of 0.20. ROC analysis for AV (AUROC = 0.834) and aIC (AUC = 0.853) yielded similar results.

Conclusion In malignant lymphomas, there is a significant correlation between metabolic activity as assessed by FDG-PET/CT and iodine concentration as assessed by SDCT. Iodine concentration shows promising diagnostic performance for detecting lymphoma activity and may represent a potential imaging biomarker.

Key Points:
- Iodine concentration correlates significantly with SUV$_{max}$ in lymphoma patients
- Iodine concentration may represent a potential imaging biomarker for detecting lymphoma activity
- Normalization of iodine concentration improves diagnostic performance of iodine concentration

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Introduction

In patients with malignant lymphoma, 2-deoxy-2-[18F]fluoro-D-glucose (FDG)-positron emission tomography (PET)/X-ray computed tomography (CT) has initiated substantial changes in both the concept and practice of lymphoma staging [1] and now plays a central role in staging and treatment response assessment [2]. FDG-PET/CT was first incorporated into response assessment criteria by the international working group in 2007 because of its superior diagnostic value compared to CT alone [3]. In order to identify active lymphoma, metabolic activity is measured and scored according to the Deauville 5-point scale (5-PS) as described by Barrington et al. and Follows et. al, respectively [2,4]. The integral CT part is used for attenuation correction and the diagnostische Wertigkeit der Jodkonzentration mit der 5-PS als Referenzstandard zu bestimmen.

**Material und Methoden**

25 Lymphompatienten wurden retrospektiv analysiert. SDCTs in der portalvenösen Phase und FDG-PET/CTs wurden innerhalb von maximal 3 Monaten ohne zwischenzeitlichen Therapiewechsel durchgeführt. Der Zusammenhang zwischen CT-Dichtewerten, absoluten Jodkonzentrationen (aIC) sowie normalisierten Jodkonzentrationen (nIC) und SUVmax wurden mittels Spearman-Rangkorrelationskoefzienten untersucht. Die Vorhersagekraft von aIC und nIC zur Beurteilung der Lymphomaktivität (5-PS> 3) wurde durch Receiver Operating Characteristics (ROC)-Kurven geprüft.

**Ergebnisse**

Insgesamt wurden 60 Läsionen analysiert und 31 Läsionen als aktiv gewertet. CT-Dichtewerte, aIC und nIC korrelierten signifikant mit SUVmax. Die stärkste Korrelation (Spearman $p = 0.71$; $p < 0.001$) und der höchste Wert für die Fläche unter der ROC-Kurve (AUROC) zur Detektion von Lymphomaktivität wurde für nIC normalisiert auf die Vena cava inferior beobachtet (AUROC $= 0.866$). Hierfür ergaben sich eine Sensitivität von 87%, eine Spezifität von 75% sowie eine Genauigkeit von 80% bei einem Schwellenwert von 0.20. ROC-Analysen für die Dichtewerte (AUROC $= 0.834$) und aIC (AUROC $= 0.853$) zeigten vergleichbare Ergebnisse.

**Schlussfolgerung**


Kernaussagen:

- Die Jodkonzentration maligner Lymphome korreliert signifikant mit SUV-Werten.
- Die Jodkonzentration stellt einen potenziellen Biomarker für die Detektion von Lymphomaktivität dar.
- Die Normalisierung der Jodkonzentration verbessert die diagnostische Vorhersagekraft.

Materials and Methods

**Study Design**

This was a retrospective exploratory single-center study approved by the local ethics committee with a waiver of informed consent (S-348/2019). The study period was from January 2018 to June 2019. Inclusion criteria were: (1) adult patient diagnosed with malignant lymphoma; (2) availability of both FDG-PET/CT and contrast-enhanced SDCT of the chest, abdomen, and pelvis, performed within 3 months without interim lymphoma treatment;
(3) presence of lymphoma lesions with measurable FDG-uptake (Deauville score ≥ 2).

The primary outcome measures were CT attenuation values (AV) as well as absolute (aIC) and normalized (nIC) iodine concentrations of lymphoma lesions as assessed by SDCT in patients diagnosed with typically FDG-avid malignant lymphoma. Iodine concentrations were correlated on a per lesion basis with established parameters of lymphoma activity at FDG-PET/CT (SUV\text{max}). According to the Lugano criteria, a Deauville score > 3 was defined as active lymphoma [11].

**Imaging Technique**

**SDCT**

All contrast-enhanced CT acquisitions were performed using a SDCT enabling spectral post-processing for material decomposition including calculation of iodine maps (IQon Elite Spectral CT, Philips Healthcare). Either one of the following CT protocols was performed at the discretion of the radiologist in charge: (1) chest, abdomen, and pelvis in portal venous phase (protocol 1); (2) abdomen in arterial phase; chest, abdomen, and pelvis in portal venous phase (protocol 2).

Contrast medium with an iodine concentration of 350 mg/mL (iohexol, Accupaque 350, GE Healthcare) was administered via power injector with an injection rate of 3 ml/s. The standard administered volume was 95 ml for protocol 1 and 100 ml for protocol 2. The contrast medium volume could be adapted to the patient’s constitution at the discretion of the radiologist in charge. The portal venous phase was acquired 60 s after completion of contrast medium injection. Conventional polychromatic images with a medium soft tissue kernel and iodine maps were reconstructed with a slice thickness of 3 mm and a reconstruction increment of 1.5 mm in transverse orientation.

**FDG-PET/CT**

FDG-PET/CT was performed after fasting for at least 6 hours. 4 MBq/kg body weight of FDG were administered intravenously about 60 min prior to the examination. All FDG-PET/CT acquisitions were performed using a Biograph mCT Flow scanner (Siemens Medical Solution). PET was acquired in 3D mode (matrix 200 × 200) using FlowMotion (Siemens). The emission data were corrected for randoms, scatter, and decay. Reconstruction was performed with an ordered subset expectation maximization (OSEM) algorithm with 2 iterations/21 subsets and Gauss-filtered to a transaxial resolution of 5 mm at full-width at half-maximum. Attenuation correction was performed using the non-enhanced low-dose CT data.

**Image analysis**

For FDG-PET/CT, SUV\text{max} of the liver and of the mediastinal blood pool was determined. Lymphoma lesions were classified according to the Deauville score by a consensus panel consisting of a radiologist and a nuclear medicine physician based on their individual FDG-uptake. With reference to the Cheson criteria, a maximum number of 6 lymphoma lesions per patient were assessed [12]. If more than 6 lesions were available, the largest and most well-defined lesions were chosen for measurement. The Deauville score of each lesion and the maximum Deauville score of each patient was recorded. Deauville scores 4 and 5 were combined to form Deauville score 4/5, because no objective rules for differentiation between both are available and the assignment of each score is merely based on subjective impression of FDG-uptake. PET acquisitions and portal venous phase CT acquisitions were automatically co-registered using dedicated software designed for aligning series of different modalities to improve anatomic correlation of lymphoma lesions (IntelliSpace Portal Version 11, Philips) (Fig. 1).

For SDCT, AV and aIC of lymphoma lesions were recorded on conventional polychromatic images used for PET co-registration and iodine maps, respectively, using regions of interest (ROI) of identical size and location (IntelliSpace Portal Version 11, Philips). All measurements were conducted on images in the portal venous phase. All included lymphoma lesions exceeded a cranio-caudal diameter of 10 mm to allow for proper ROI placement and to reduce the risk of partial volume averaging artifacts as suggested by Patel et al. [13]. ROIs were drawn manually in a circular fashion and care was taken to encompass the lesion portion with the most uptake in accordance with FDG-PET/CT.

Additional ROIs were placed to calculate relative iodine concentrations normalized to the contrast enhancement of the inferior vena cava (nICc), the abdominal aorta at the level of the celiac trunk (nICa), and the lumbar muscle (nICm) according to the following formula:

\[
\text{nIC lymphoma lesion} = \frac{\text{aIC lymphoma lesion}}{\text{aIC reference}}
\]

**Statistical analysis**

Deauville score subgroups were analyzed for differences in SDCT parameters using Kruskal-Wallis tests with Bonferroni post-hoc analysis. Spearman’s correlation was used to determine the rela-
tionship between SUV\textsubscript{max} and SDCT parameters. The sensitivity and specificity of SDCT parameters for the detection of active lymphoma (Deauville Score > 3) were computed using a receiver operating characteristic (ROC) analysis. Optimal threshold values were estimated by maximizing the Youden’s J statistic. The diagnostic accuracy of the threshold values was calculated. Statistical analysis was performed using SPSS Statistics (version 26, IBM). Statistical significance was assumed for p < 0.05.

Results

Patient characteristics

25 patients met the inclusion criteria (13 male; age: 41.6 ± 16.1 years) (Fig. 2). 9 patients had classical Hodgkin lymphoma, 8 patients had diffuse large B-cell lymphoma, and 5 patients had primary mediastinal B-cell lymphoma. One patient each had Burkitt-lymphoma, aggressive B-cell non-Hodgkin lymphoma, and T-lymphoblastic lymphoma (Table 1). SDCT and FDG-PET/CT were performed for primary staging in 3 patients, for treatment response evaluation in 20 patients, and for post-treatment follow-up in 2 patients. The overall median time interval between SDCT and FDG-PET/CT was 21.0 days (range: 7–87 days). In detail, the median time interval was 21.0 days (range: 14–33 days) for primary staging, 20.5 days (range: 7–87 days) for treatment response evaluation, and 31.0 days (range: 28–34 days) for post-treatment follow-up imaging. In 22 patients CT protocol 1 and in 3 patients CT protocol 2 was selected. The mean contrast medium volume was 90.4 ± 8.4 ml for protocol 1 and 78.6 ± 7.8 ml for protocol 2.

In the 25 patients, 60 lymphoma lesions were applicable for evaluation. Both nodal and extranodal lymphoma manifestations were included. The latter comprised splenic and hepatic manifestations as well as a lesion in the female pelvis. Extranodal manifestations accounted for 10% of all lymphoma lesions. Regarding nodal lesions, 34 lesions were located in the chest area and 10 lesions each in the abdomen and pelvis area. The median for lesions per patient was 2 (range: 1–6). The number of lymphoma lesions per Deauville score is given in Table 2. Active lymphoma (Deauville score > 3) was diagnosed in 10 patients and 31 lymphoma lesions (Table 2).

SDCT parameters per Deauville score

SDCT parameter values per Deauville score are listed in Table 3. In general, higher values were found for higher Deauville scores. There were significant differences between Deauville score subgroups for aIC, nIC\textsubscript{a}, nIC\textsubscript{c} and AV (p < 0.001 each, Kruskal-Wallis H test). Compared with Deauville score 4/5 (Bonferroni post hoc tests):

- aIC was significantly lower for both Deauville scores 2 (p < 0.001) and 3 (p = 0.006).
- nIC\textsubscript{a} was significantly lower for both Deauville scores 2 (p < 0.001) and 3 (p = 0.004).
- nIC\textsubscript{c} was significantly lower for both Deauville scores 2 (p < 0.001) and 3 (p = 0.006).
- AV was significantly lower for both Deauville scores 2 (p < 0.001) and 3 (p = 0.027).

No significant differences were observed between Deauville scores 2 and 3. Effect sizes were large for pairwise comparison of Deauville scores 2 and 4/5 for all parameters (r ≥ 0.60). Effect sizes were medium for pairwise comparison of Deauville scores 3 and

<table>
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<tr>
<th>Deauville Score</th>
<th># Patients</th>
<th># Lesions</th>
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<tr>
<td>2</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
<td>16</td>
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<tr>
<td>4/5</td>
<td>10</td>
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<table>
<thead>
<tr>
<th>Subtype</th>
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<tr>
<td>classical Hodgkin lymphoma</td>
<td>36 %</td>
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<tr>
<td>diffuse large B-cell lymphoma</td>
<td>32 %</td>
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<td>primary mediastinal B-cell lymphoma</td>
<td>20 %</td>
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<td>Burkitt lymphoma</td>
<td>4 %</td>
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<td>4 %</td>
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<tr>
<td>T-lymphoblastic lymphoma</td>
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</table>
There were significant linear correlations between SDCT parameters and SUV\text{max}. The strongest correlation was observed for nICv with $\rho = 0.71$ ($p < 0.001$) and nICa with $\rho = 0.67$ ($p < 0.001$). For aIC, nICm and AV Spearman’s $\rho$ were 0.64 ($p < 0.001$), 0.26 ($p = 0.045$), and 0.60 ($p < 0.001$), respectively.

### Correlation between SDCT parameters and SUV\text{max}

There were significant linear correlations between SDCT parameters and SUV\text{max}. The strongest correlation was observed for nICv with $\rho = 0.71$ ($p < 0.001$) and nICa with $\rho = 0.67$ ($p < 0.001$). For aIC, nICm and AV Spearman’s $\rho$ were 0.64 ($p < 0.001$), 0.26 ($p = 0.045$), and 0.60 ($p < 0.001$), respectively.

### Diagnostic performance of SDCT parameters

In a per-lesion analysis, the area under the ROC curve (AUROC) for the detection of active lymphoma was highest for nICv (0.866). At a threshold of 0.20, the sensitivity, specificity, and accuracy were...
87%, 75%, and 80%, respectively. In descending order, the AUROC for nIC, AV, and nIC were 0.859, 0.853, 0.834, and 0.609, respectively. The sensitivity, specificity, and accuracy of all SDCT parameters are given in Table 4.

Discussion

We found significant correlations in lymphoma manifestations between SUV\textsubscript{max} and AV, aIC and nIC, respectively. The strongest correlation was found for nIC. Regarding ROC analyses, the overall performance levels of AV, aIC, and nIC were considerably high. The AUROC was highest for nIC followed by nIC, suggesting that normalization of the iodine concentration to a reference tissue improves diagnostic accuracy.

Pairwise comparison of Deauville subgroups revealed significant differences between both Deauville scores 2 and 4/5, as well as between 3 and 4/5. However, no significant differences were found between Deauville scores 2 and 3. Deauville score 3 likely represents complete metabolic response in patients undergoing standard treatment [14] and was therefore considered inactive lymphoma. This might be the reason that differences between Deauville scores 2 and 3 were not as great as compared to Deauville score 4/5 since the latter represents active lymphoma.

Based on the hypothesis that malignant infiltration of lymph nodes also causes an increase in CT density by dissolving the fatty hilus [15], the performance of conventional HU values was also tested. In this study, CT attenuation values performed almost on par with absolute iodine concentration. This suggests that CT density by itself might serve as a valuable surrogate parameter. Conclusive with this finding, Giesel et al. found higher CT density values in non-enhanced malignant vs. benign lymph nodes in a trial analyzing 1022 lymph nodes in different solid tumors [16]. Lee et al. also observed that lymph node density combined with SUV\textsubscript{max} increased sensitivity for mediastinal metastases in lung cancer patients if FDG-uptake was only mild [17]. Flechsig et al. further found that CT density measurements aided with the characterization of target lymph nodes in lung cancer [15] and lymphoma patients [18].

However, when diagnosing malignant tumors on imaging, we look for tumor-associated neovascularization since it represents one of the hallmarks of cancer biology [19]. In contrast-enhanced SDCT, tissue enhancement can be visualized on iodine maps. SDCT further allows for direct quantification of iodine uptake without the need of multiphase CT [10], which Chandarana et al. showed to be accurate in a phantom study [20]. Several studies suggested that the use of contrast-enhanced SDCT improves correct characterization of a lesion [10, 21–23]. Most recently, two studies found dual-energy CT parameters including iodine concentration to be useful for the identification of pulmonary nodules regarding primary lung cancer and pulmonary metastasis in thyroid cancer [24, 25]. Moreover, iodine concentration was found to be a useful marker for vascularization in treatment response assessment in lung cancer [8, 26], renal cell cancer [27], hepatocellular carcinoma [9, 28], and gastrointestinal stroma tumor [29]. In a recent study on the local recurrence of pancreatic ductal adenocarcinoma, iodine concentration was also identified as a potential tool for differentiating non-specific post-operative tissue proliferation [30]. These findings coincide with our results regarding the role of iodine concentration as a potential biomarker for tumor activity. Another aspect to consider is that FDG-uptake in tissues is not only dependent on tumor-associated neovascularization, but also the expression of glucose transporters, hexokinase activity on a cellular level, and non-neoplastic metabolic activity. The latter also applies for iodine uptake. Thus, despite differing uptake mechanisms for FDG and iodine, we assumed that there are sufficient similarities for comparison regarding our study.

There were noticeable differences in reported thresholds in the literature regarding lesion vascularization and malignancy. In our study we found a threshold of 0.96 mg iodine/ml for the detection of active lymphoma. For instance, Li et al. reported a far lower threshold to distinguish metastatic from non-metastatic lymph
nodes in lung cancer [8]. However, to our knowledge there have been no reported thresholds in iodine concentrations regarding lymphoma patients. Apart from differences in tumor entities, Patel et al. suggested other reasons that could account for differences in threshold reports, such as patient populations and differing scanning protocols [13].

Since contrast uptake may vary interindividually due to factors such as patient constitution, bolus timing, and cardiac output [31], normalization of iodine concentration was introduced to reduce variability. Similar to our observations, Patel et al. found that normalizing iodine concentration to the abdominal aorta improves the separation of vascular and nonvascular renal lesions [13]. In this study, normalization to the abdominal aorta, inferior vena cava, and lumbar muscles was tested. The latter performed poorly and yielded no significant results. On the other hand, normalization to the large abdominal vessels showed substantial results and nICv outperformed nICa slightly but not significantly.

There were several limitations of this study, mainly due to its retrospective design. First, with 60 lymphoma lesions in total, the overall sample size of our study was rather small. As mentioned before, we refrained from including more than 6 lesions per patient in reference to the Cheson criteria. On the one hand, this limited the maximum impact of a single patient on the results. On the other hand, this process might have led to a selection bias since lesion preselection took place manually. Second, the investigated cohort demonstrated heterogeneity in regard to lymphoma subtype, distribution of Deauville score, and treatment interval. There were variable delays regarding the time period between SDCT and FDG-PET/CT, lasting up to 3 months in some cases. Thus, even though both examinations were performed within the same treatment interval, progression of disease in the interim may have occurred and affected accurate correlation.

Third, a single operator executed ROI placement for all lesions which might have led to an observation bias. Moreover, a second reader could have been introduced to test interobserver variability. The ROI placement was conducted manually and did not necessarily encompass the entirety of each lesion, accounting for another potential source of inaccuracy. Lastly, the use of volumetric measurements instead of a two-dimensional analysis may improve the representativeness of iodine uptake measurement. In order to achieve a more robust, complete acquisition of iodine distribution in tissues, volumetric measurements should be part of further studies.

In the majority of cases imaging was conducted for treatment response evaluation, thus initial acquisition parameters for reference were not available. An additional study including baseline and follow-up SDCT for lymphoma patients would be of interest to observe changes in iodine concentration over the treatment process. Simultaneously, if a larger cohort was available, iodine concentration in naïve and treated lesions should be investigated separately regarding their correlation with SUV

Conclusion
In conclusion, in patients with malignant lymphoma, iodine concentration may represent an alternative imaging biomarker to FDG-avidity. Concerning correlation to FDG-PET/CT, normalization of iodine concentration to reference tissues such as the inferior vena cava improves the diagnostic performance of iodine concentration.

**CLINICAL RELEVANCE**
- In patients with FDG-avid lymphoma, PET/CT is usually used for response assessment.
- Spectral detector CT enables material decomposition and measurement of iodine concentration, thereby providing an alternative method to investigate tumor activity.
- In patients with malignant lymphoma, iodine concentration may serve as a surrogate parameter for disease activity.

**Conflict of Interest**
The authors of this manuscript declare relationships with the following companies:
- K. Gehling: None
- T. Mokry: None
- T. D. Do: Speakers’ bureau Philips Healthcare

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<td>0.609</td>
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References


