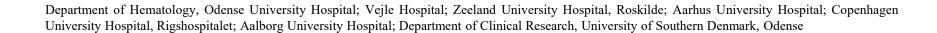
Bone marrow biopsy is no longer needed as a part of the diagnostic work-up of CNS lymphoma of DLBCL origin: Danish population-based retrospective study in the PET-CT era

Jelena Jelicic, Dennis Lund Hansen, Sarah Sand Carlsen, Michael Thorsgaard, Ditte Hersby, Karina Kannik, Amalie Sofie Eilsø Munksgaard, Thomas Stauffer Larsen, Karen Juul-Jensen





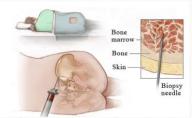
Introduction



- Primary central nervous system (CNS) lymphoma (PCNSL): rare and aggressive disease; 7% of all malignant primary brain tumors; 4-6% of extranodal lymphomas ^{1,2}.
- More than 90% of the PCNSL are diffuse large B-cell lymphomas (DLBCL).
 - The International PCNSL Collaborative Group work-up³:
- Contrast-enhanced MRI of the brain/spine
- CT scans/ and optional FDG-PET
- Bone marrow biopsy (BMB)
- UL of testes, CSF evaluation







Aim: To examine the value of BMB in patients with DLBCL and PCNSL in the PET-CT era.



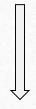






Methods and Results

N= 1238 Identified in PatoBank



N=442 Missing PET-CT and/or BMB

N=232 Non-DLBCL histology

N=118 Systemic disease on PET-CT scans

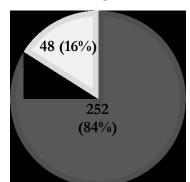
N=145 Other

Inclusion criteria

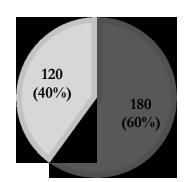
- ➤ Patients diagnosed with DLBCL in CNS between 2002 and 2020
- > Available BMB and PET-CT
- ➤ No signs of systemic lymphoma on PET-CT
- Inclusion of isolated relapse of DLBCL in PCNSL

Patients with CNS lymphoma and PET-CT without lymphoma outside of the CNS (N=300)

■ PCNSL □ isolated relapse of DLBCL in CNS







Median age: 68 years

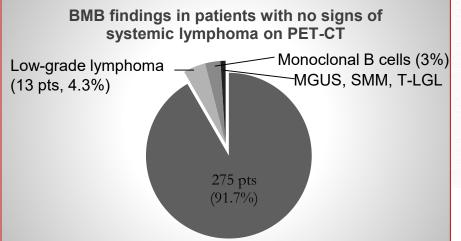






Results and Conclusion





Our results suggest that BMB can be safely omitted in patients with PCNSL.

- 300 patients with DLBCL restricted to the CNS and no signs of lymphoma outside of CNS on PET/CT scans.
- No cases of DLBCL in BMB
- 25 (8.3%) of patients were diagnosed with discordant low-grade lymphoma that did not influence treatment choice.

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ORIGINAL ARTICLE

Bone marrow biopsy can be omitted in the diagnostic workup of CNS lymphoma of DLBCL origin: a population-based retrospective study in the PET-CT era

Jelena Jelicic^{1,2} · Dennis Lund Hansen^{1,3} · Sarah Sand Carlsen⁴ · Michael Thorsgaard^{2,5} · Ditte Stampe Hersby⁶ · Karina Kannik^{5,7} · Amalie Sofie Eilsø Munksgaard⁴ · Thomas Stauffer Larsen^{1,3} · Karen Juul-Jensen¹







MGUS – monoclonal gammopathy of undetermined significance, SMM – smoldering myeloma, T-LGL - T-large granular lymphocytic leukemia









Thank you for your attention





Sarah Sand Carlsen
Rigshospitalet

Michael Thorsgaard

Aarhus University Hospital

Ditte Hersby

Herlev
Hospital

(n) Karina Kannik

AALBORG UNIVERSITY HOSPITAL

Amalie Sofie Eilsø Munksgaard











