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A Retrospective Review of Outcomes Associated With Treatment Modalities Utilized In The Management of Diffuse Large B Cell Non-Hodgkin's Lymphoma

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Published In/Presented At

Fry, B., Colabroy, D., Kratz, M., Sopka, D., & Skandan, S. (2020, August). A Retrospective Review of Outcomes Associated With Treatment Modalities Utilized In The Management of Diffuse Large B Cell Non-Hodgkin's Lymphoma. Poster Presented at: LVHN Research Scholar Program Poster Session, Lehigh Valley Health Network, Allentown, PA.

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A Retrospective Review of Outcomes Associated With Treatment Modalities Utilized in the Management of Diffuse Large B-Cell Non-Hodgkin's Lymphoma

Benjamin Fry, Donna Colabroy MSN RN AOCNS, Melissa Kratz MSN RN AOCNS, Dennis Sopka MD, Savitri Skandan MD

Introduction

- Diffuse Large B-Cell Lymphoma (DLBCL) is the most common aggressive Non-Hodgkin's Lymphoma subtype¹
- National Comprehensive Cancer Network (NCCN) issues peer-reviewed guidelines for DLBCL treatment²
- National Cancer Institute (NCI) publishes Surveillance,
 Epidemiology, and End Results (SEER) statistics for DLBCL³

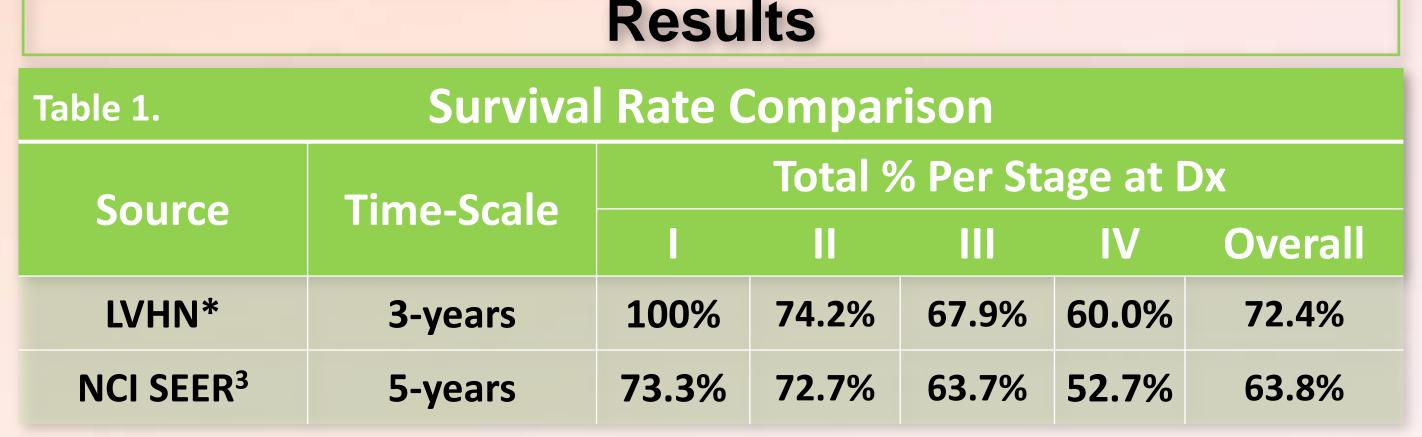
Objectives

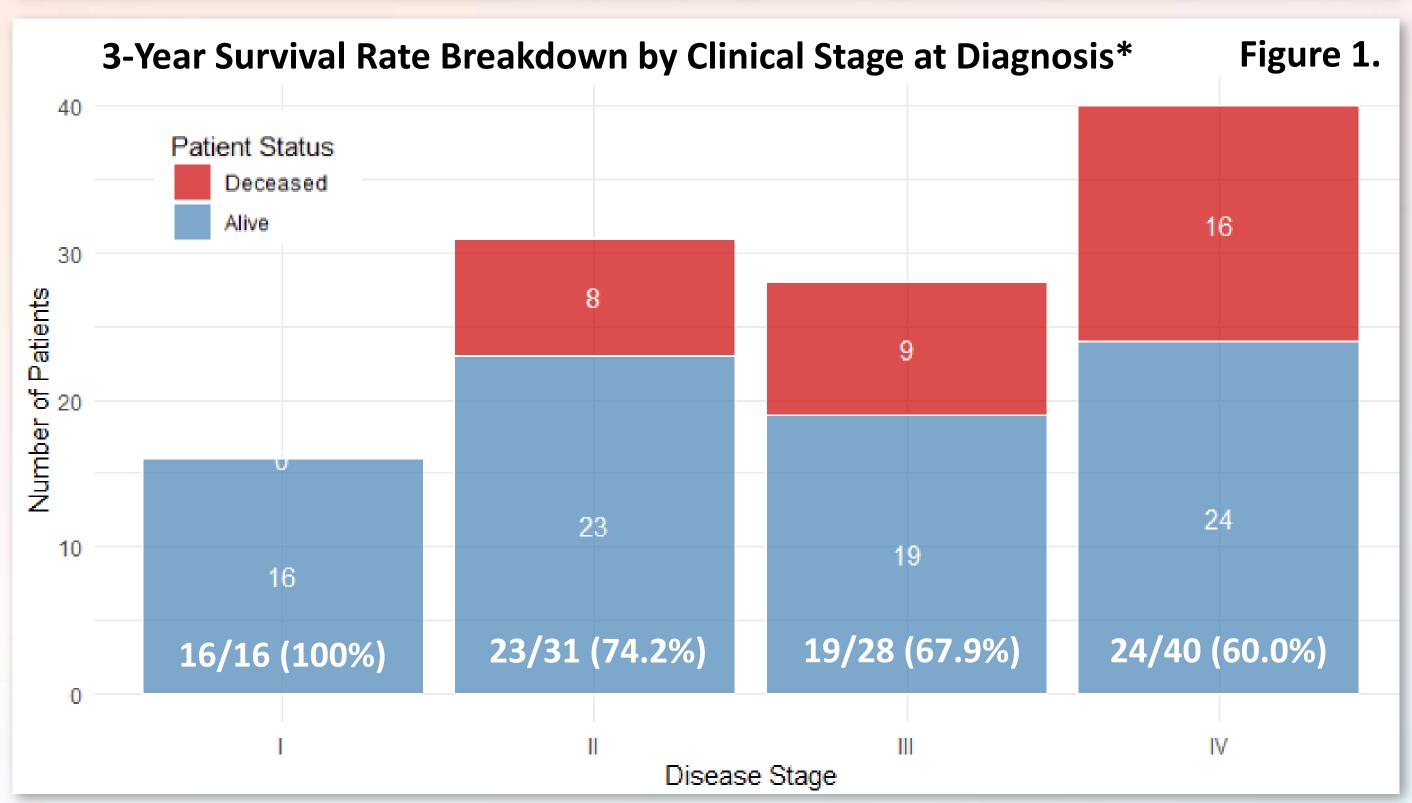
- Determine if workup and treatment for DLBCL rendered at LVHN was in compliance with NCCN guidelines
- Compare LVHN's DLBCL population trends to those published by the NCI

Methods

- Retrospective chart review of 269 DLBCL patients identified by LVHN's Tumor Registry from 2014 to 2018
- Utilized EPIC and Mosaiq to access electronic medical records (EMR) to record:
 - Demographic information
 - Chemotherapy regimen
 - Baseline:
 - Lugano staging (I, II, III, IV)
 - Viral testing results
 - Lactate dehydrogenase measurement
 - B symptom presence
 - PET scan completion status
 - Echocardiogram/MUGA completion status
- Removed 88 patients from initial dataset due to:
 - Initial treatment at another hospital 41 (46.6%)
 - Treatment by pediatrics unit 3 (3.4%)
 - Patient declined treatment or entered hospice without treatment – 14 (15.9%)
 - DLBCL was primary CNS disease 22 (25.0%)
 - Patient expired before treatment could be initiated 8
 (9.1%)
- Determined compliance based on NCCN guidelines² for first-line chemotherapy and workup procediures

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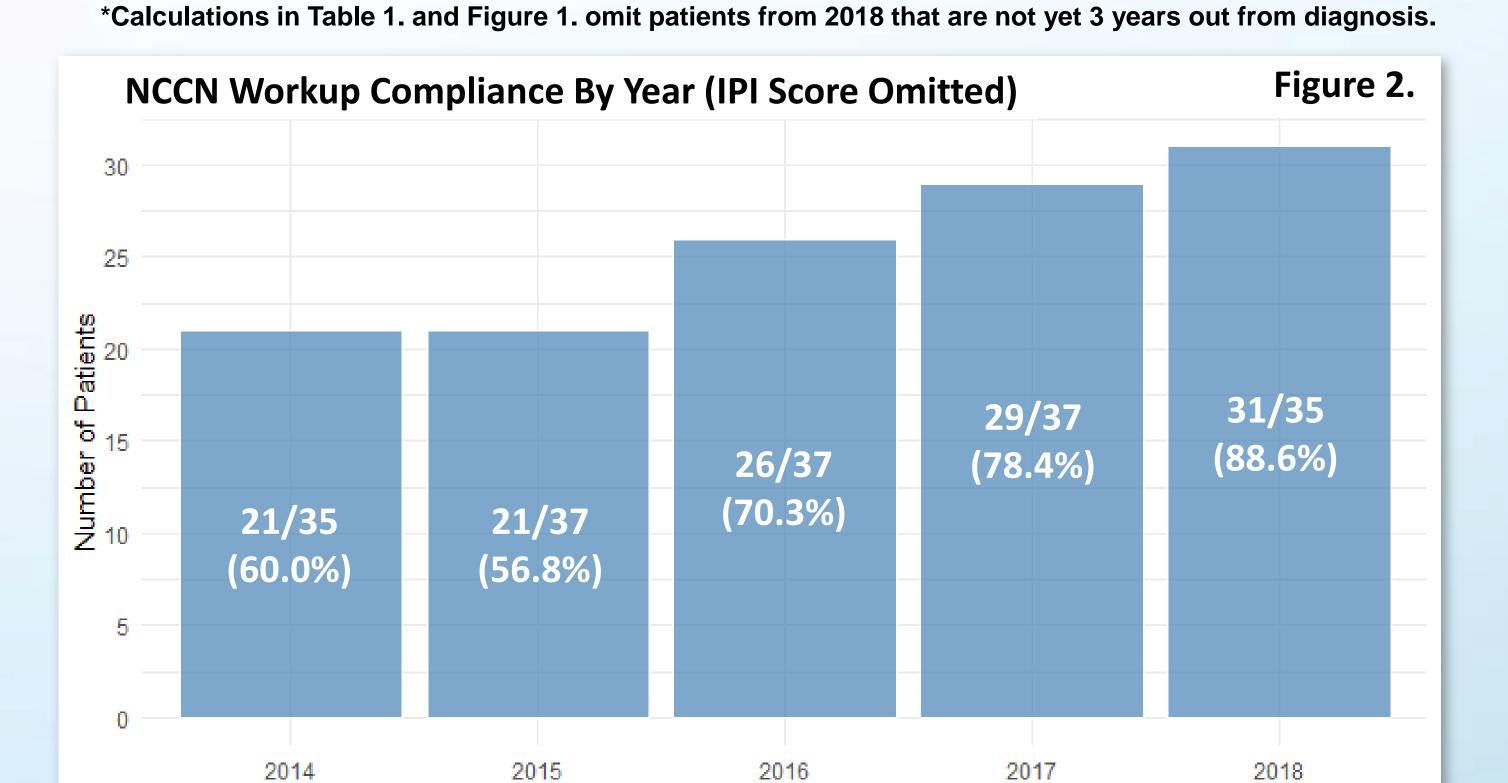


Table 2. NCCN Workup Guidelines Compliance*				
IPI Score	Compliant Patients	Total Patients	Total % Compliance	
Included	27	181	14.9%	
Omitted	128	181	70.7%	

Year of Diagnosis

*Compliance = Documented LDH, ECOG, ± B Symptoms, PET Scan, Hepatitis B test, ECHO/MUGA [+anthracycline]

*Compliance = First treatment modality followed NCCN flowchart ³ for selection based on stage group at diagnosis

Table 3. NCCN Treatment Guidelines Compliance*				
Stages at Dx	Compliant Patients	Total Patients	Total % Compliance	
I & II	61	67	91.0%	
III & IV	84	93	90.3%	

Conclusions

- Comparison to SEER statistics:
 - LVHN's 3-year survival rates exceed all corresponding 5year metrics provided by SEER
 - DLBCL outcomes are at or exceeding national average
 - Though, direct comparison is difficult due to different time-scales
- NCCN workup:
 - Found a general absence of documented IPI scores
 - Led to a low overall workup compliance (14.9%)
 - However, IPI is a prognostic index and doesn't have large impact on care plan
 - When omitted, 70.7% of workups are compliant
- NCCN treatment:
 - Overall treatment compliance was 145/150 (90.6%)
 - Deviations from compliance can be explained case-tocase
- Overall:
 - LVHN is compliant with NCCN guidelines and provides a high standard of care for its DLBCL patients.

Recommendations

- In 2 years, recalculate survival rates per stage to have direct comparison to 5-year SEER statistics
- Emphasize better documentation of IPI score in EMR
 - IPI scores have been documented as general prognostic statements such as "high risk"
 - Can be converted to numerical score, however nothing differentiates these statements from a general prognosis
 - NCCN occasionally uses IPI to select chemotherapy regimen
 - IPI should be consistently documented to ensure proper care

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