Hodgkin's Lymphoma: The Moffitt Cancer Center Experience

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INTRODUCTION

Hodgkin's lymphoma (HL)

- Clonal disease of B-cell origin
- 10% of all malignant lymphomas
- Classical HL (cHL) includes 4 histological subtypes:
 - lymphocyte rich, nodular sclerosis, mixed cellularity and lymphocyte depleted
- Nodular lymphocyte predominant (NLPHL)
- Greater than 75% of patients are cured with current treatment modalities
- Prognosis is based on clinical stage, presence of systemic symptoms, presence of bulky disease and treatment rendered.

MATERIALS AND METHODS

- 761 pts with Hodgkin Lymphoma
- Diagnosed between 1990-2017
- Overall survival (OS) and various clinical and laboratory factors by using:
 - Kaplan Meier curve
 - Cox Proportional Hazards regression
 - Chi-square test
 - Fisher's Exact test
 - Cochran-Armitage trend.

RESULTS

Ann Harbor Stage	No Presence of B Symptoms (%)	Yes Presence of B Symptom (%)
I	38 (83.4)	6 (13.6)
II	199 (60.3)	131 (39.7)
III	56 (36.4)	98 (63.6)
IV	45 (29.4)	108 (70.6)

Ann Harbor Stage	No Presence of Bulky Disease (%)	Yes Presence of Bulky Disease (%)
I	38 (92.7)	3 (7.3)
II	200 (73.3)	73 (26.7)
III	89 (76.1)	28 (23.9)
IV	100 (83.3)	20 (16.7)

Advanced Stage	No Presence of B Symptoms (%)	Yes Presence of B Symptoms (%)
No Presence of Bulky Disease (%)	228 (54.4)	191 (45.6)
Yes Presence of Bulky Disease (%)	50 (41.0)	72 (59.0)

Figure 1a. OS
Median OS=17.8 yrs
5-Year OS = 83.1 %
10-Year OS= 70.9 %

Figure 1b. OS
<39
Median OS=23.5 yrs
5-Year OS = 88.4 %
10-Year OS= 73.4 %

40-64
Median OS=15.4 yrs
5-Year OS = 79.3 %
10-Year OS= 71.7 %

65+
Median OS=8.3 yrs
5-Year OS = 58.9 %
10-Year OS= 47.3 %

Figure 1c. OS
Classical
Median OS=16.8 yrs
5-Year OS = 82.8 %
10-Year OS= 70.2 %

NLP
Median OS=37.4 yrs
5-Year OS = 96.9 %
10-Year OS= 89.4 %

- 55.3% male
- 80% Caucasian
- Mean age at diagnosis: 38.5 years
- 60% age <39 years of age, 31% age 40-64 years old, and 9% age 65 and older
- Histological subtypes:
 - nodular sclerosis 72.2%
 - mixed cellularity 19%
 - lymphocyte rich 3%
 - lymphocyte depleted 0.7%
 - nodular lymphocyte predominant 5.1%.
- Stage at diagnosis: I: 6.9%, II: 47.5%, III: 22.7%, IV: 22.9%
- B-symptoms: 50.4%
- Bulky disease: 22.6%
- Mean age at diagnosis according histological subtypes: nodular sclerosis more prominent at younger ages (35.7yrs) compared to lymphocyte depleted (50yrs) (p-value <0.05)
- Mean time of follow-up was 7.2 years

DISCUSSION

- Patients with Hodgkin's lymphoma have very good long-term outcomes.
- Outcomes at Moffitt Cancer Center are similar to overall outcomes in the United States.
- Significant indicators of poor prognosis:
 - classical histology type
 - advanced stage at diagnosis
 - presence of B symptoms
 - advanced age

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