SOHO ANNUAL MEETING 2024

Patterns of Radiotherapy for Lymphoma in Armenia: An Analysis from 2020 to 2023

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INTRODUCTION

This study summarizes lymphoma radiotherapy data in Armenia from 2020 to 2023. Two clinics in Armenia offer radiation therapy services, including 2D(only in one clinic), 3DCRT, IMRT, and electron beam therapy (last two only in one clinic).

AIM

To analyze and summarize the utilization of radiotherapy in lymphoma patients in Armenia from 2020 to 2023, assessing the distribution of radiotherapy techniques and comparing the Radiotherapy Utilization (RTU) rate with global benchmarks.

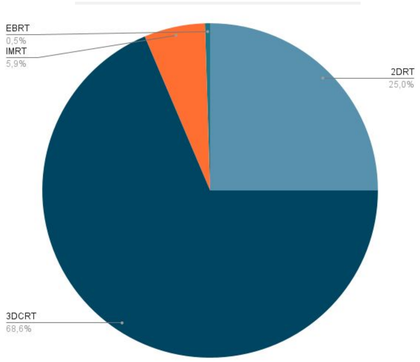
METHOD

We conducted this study among patients who underwent radiation therapy in the given period. A descriptive analysis was performed on patient data, including diagnosis, radiotherapy technique, sex ratio and age distribution. Additionally, the radiotherapy utilization rates (RTU) were calculated(No. of pts. with indication for RT/No.of cancer patients) and compared with global data.

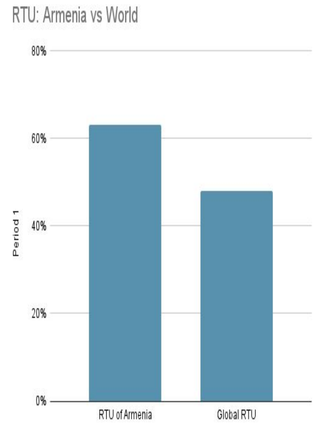
RESULTS

A total of 202 lymphoma patients received radiation therapy: 25.2% underwent 2D RT, 69.3% received 3D conformal RT, 5.9% received IMRT, and 0.4% had electronic therapy, with data missing for one patient. The male-to-female ratio was 1:0.99. Fifteen patients (7.4%) were pediatric, with a median age of 41 years (range 5-83). Hodgkin lymphomas made up 53.9% of cases, and non-Hodgkin lymphomas 45.5%. Armenia averages 320 primary lymphoma cases annually, with an RTU rate of 63.1% during the study period, compared to a global RTU rate of 48%.1

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Distribution of Radiotherapy Techniques Among 202 Patients in Armenia from 2020 to 2023



The chart compares RTU rates for lymphomas: Armenia (63.1%) vs. global average (48%). Armenia shows a higher RTU rate.

CONCLUSIONS

Our study highlights the current state of lymphoma radiotherapy in Armenia,revealing that radiation therapy services are limited to only two clinics at this moment. From 2020 to 2023, there was a notable predominance of 3D conformal radiotherapy among various forms of radiation therapy. Importantly, the Radiotherapy Utilization (RTU) rate for lymphomas in Armenia was significantly higher compared to the global average. This data underscores the need for continued monitoring, review and improvement of the quality of lymphomas treatment.

REFERENCES

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ACKNOWLEDGEMENTS

We would like to express our sincere gratitude to the medical staff and radiation therapy teams at the participating clinics for their invaluable support and collaboration

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