

Relapsed/Refractory Hodgkin Lymphoma

What Is the Best Salvage Therapy and Do We Need RIC-AlloSCT?

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KEYWORDS

- Prognostic factors • Salvage chemotherapy • Autologous transplant
- FDG-PET scan • RIC-alloSCT

KEY POINTS

- For RR-HL, standard therapy consists of salvage chemotherapy followed by HDCT/ASCT + RT.
- Key adverse risk factors present at relapse/progression include short response duration <12 months, B symptoms, extranodal disease, as well as advanced stage and anemia.
- There is no obvious superior salvage therapy among the commonly used regimens such as DHAP, ICE, IGEV; maintaining dose-intensity is important for optimal responses.
- Functional imaging using FDG-PET scanning after salvage chemotherapy and before ASCT is a critical predictor of outcome; the goal of salvage should be a negative FDG-PET scan.
- Either a second line of salvage or a tandem ASCT may benefit some patients with residual FDG avidity post-salvage.
- RIC-alloSCT may provide a GVL effect and durable responses in some patients with HL relapsing or progressing after ASCT.
- New agents, particularly Brentuximab vedotin, are being incorporated earlier into the treatment of RR-HL, such as those with FDG-avid chemoresistant disease, those progressing through second-line salvage, or those relapsing after an ASCT.

INTRODUCTION

Most patients with Hodgkin lymphoma (HL) are cured by chemotherapy alone with or without additional external beam radiation; however, up to 10% of patients with early-stage favorable HL and up to 30% of patients with early-stage unfavorable or

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advanced stage disease will either fail to respond to first-line therapy or relapse after an initial complete remission (CR). For those who relapse or fail to achieve a CR, standard therapy involves salvage chemotherapy followed by high-dose chemotherapy (HDCT) and autologous stem cell transplantation (ASCT).¹⁻⁶ Approximately 40% to 50% of RR-HL patients can be cured with HDCT/ASCT, particularly those with more favorable risk features. In contrast, patients with primary refractory disease and/or adverse risk features at relapse, such as extranodal disease or short response duration, may benefit more from other interventions. These alternative approaches include antibody-drug conjugates and reduced-intensity conditioning allogeneic stem cell transplantation (RIC-alloSCT).

SALVAGE THERAPY AND HDCT/ASCT

Which Prognostic Factors at Progression/Relapse Are Important?

Over the last 20 years, there have been several reports identifying key prognostic factors in patients with relapsed/refractory Hodgkin lymphoma (RR-HL) who have undergone salvage chemotherapy and ASCT ([Table 1](#)).

1. The Groupe d'Etude des Lymphomes de l'Adulte developed a 2-factor model that included as adverse features short CR1 duration, and extranodal disease at relapse.¹⁰
2. The Autologous Blood and Marrow Transplant Registry identified 3 adverse risk factors including Karnofsky performance score less than 90%, abnormal lactate dehydrogenase (LDH) at ASCT, and chemoresistant relapse.¹²
3. Some of the largest studies of prognostic variables have been conducted by the German Hodgkin study group (GHSG).
 - a. In their first analysis of 206 patients with primary progressive disease they identified 3 adverse risk factors including ECOGPS greater than 0, age greater than 50 years, and failure to obtain a temporary remission to initial therapy.¹¹
 - b. In a subsequent study among 422 patients with relapsed HL, they defined a GHSG Clinical Risk Score using 3 adverse prognostic factors for overall survival (OS) including advanced disease stage III/IV, initial response duration of less than 12 months, and anemia (Hb <120 g/L and <105 g/L in men and women).¹⁷ Rates of freedom from second failure at 5 years for patients failing first-line therapy were 45%, 32%, and 18%, for patients with prognostic scores of 0 to 1, 2, and 3, respectively. Hence, this score has been used widely in prospective trials and treatment approaches.
4. From other large studies, consistent adverse prognostic factors have emerged: short initial response duration, usually within 12 months, advanced stage III/IV at relapse, and extranodal disease (see [Table 1](#)).^{9,10,12,13,17,19-21,26,27}
5. Finally, in a prospective study of ifosfamide, carboplatin, etoposide (ICE) salvage among 85 patients, Moskowitz and colleagues¹³ developed a prognostic model of 3 adverse risk factors at relapse, including B symptoms, extranodal disease, and CR duration less than 12 months. The presence of 0 to 1 risk factors was associated with an event-free survival (EFS) of 83%, decreasing to 10% for 3 risk factors.

Which Salvage Regimen?

There are no randomized controlled trials (RCTs) and no consensus as to the most effective salvage regimen for RR-HL. The 2 published RCTs of ASCT (see [Table 2](#)) used mini-BCNU, etoposide, cytarabine, melphalan (BEAM) or dexa-BEAM as salvage.^{28,29} Although these regimens would still be considered standard, several alternative salvage combinations have been used, reporting overlapping response rates from 60% to 85% ([Table 2](#)).^{13,15,26,30-42}

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