

However, relapse in the central nervous system (CNS) is still the issue. We studied the incidence, natural history, and risk factors predictive of CNS relapse in patients with DLBCL and evaluated the efficacy of Rituximab in preventing CNS relapse.

Methods: We conducted an analysis of CNS events on four hundred and sixty five patients with DLBCL treated in our institution from 2000–2008. 195 patients received CHOP chemotherapy and 270 patients received CHOP chemotherapy with Rituximab.

Results: The median age was 56 (range 17–91). The risk category by international prognostic index (IPI) was assessed as: low 42%, low intermediate 25%, high intermediate 19% and high 14%. After a median follow up period of 26 months, the cumulative incidence of CNS relapse was 3.9%. The median time from diagnosis to CNS relapse was 7.4 months (range 5–46 months). 89% of CNS relapse occurred within 1 year of diagnosis. Of the 18 patients with CNS relapse, 13 had isolated CNS relapse and 5 had concurrent systemic relapse. Patients with CNS relapse had a median survival of 4.4 months after relapse. Two year estimate of survival after CNS relapse was 6%. Significant differences in the incidences of CNS relapse were evident in patients with > 1 extranodal site of involvement, OR 2.14 (95% CI 1.24–3.70 $p=0.017$), patients with stage 3 or 4 disease, OR 2.61 (95% CI 1.82–3.76 $p<0.001$) and patients with high risk disease (IPI-high intermediate or high) OR 2.34 (95% CI 1.70–3.20 $p<0.001$). There was no evidence that patients who received Rituximab had different rates of CNS relapse compared to patients who received only chemotherapy, 3% versus 5%, $p=0.22$.

Conclusion: CNS relapse in patients with DLBCL is uncommon. CNS relapse almost always occur within 1 year of presentation, is usually isolated and predicts a poor prognosis. The number of extranodal sites, IPI score and stage at diagnosis were predictive of CNS relapse. There was no evidence however, to suggest that Rituximab decreases the risk of CNS relapse.

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POSTER

Induction and prolonged exposure to Rituximab in combination with Chlorambucil in untreated follicular lymphoma patients: a treatment with sustained response rate and a low toxicity profile

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Background: Rituximab in combination with chemotherapy improves outcome of follicular lymphoma (FL) patients with prolonged progression-free survival, overall response and median time to treatment failure compared to chemotherapy alone. However the natural history of the disease seems not influenced, so treatment options that extend the duration of remission with a low toxicity profile are warranted.

Material and Methods: Since December 2001 until September 2008 40 (18 male, 22 female) newly diagnosed FL patients (pts) received a combination of Rituximab and Chlorambucil (Chl). Rituximab was initially delivered with four week schedule in association with Chl (6 mg/sqm/daily) for 6 consecutive weeks. By 4–6 weeks all pts were evaluated and, in the absence of disease progression, the treatment was prolonged with Rituximab once monthly and 14 days of Chl each month for 4 additional months.

Results: Median age at diagnosis was 56 years old (range 29–79). Twenty-nine pts had advanced stage of FL and the majorities (82%) were asymptomatic. Twenty-one pts (52%) were low risk FLIPI score. After the induction the ORR was 97% with 11 pts (27%) in complete response (CR). At the end of treatment 34 pts (85%) achieved a CR and 5 a PR. One patient presenting stable disease was subsequently treated with high dose chemotherapy and PBSC reinfusion. All pts but one concluded planned treatment. The mean daily dose of Chl received during the induction phase was 10 mg, while in the prolonged treatment was 9 mg. Seventeen pts (42%) required a dose reduction of Chl mainly in the prolonged phase because of haematological toxicity. No late toxicity has been observed. With a median follow up of 46 months (range 5–85) 29 pts (72%) maintain a CR. Eight pts relapsed and required a second-line treatment with a median time of 22 months (range 12–50).

Conclusions: Our results confirm that the prolonged exposure to monoclonal antibody Rituximab and Chl is safe and feasible. The schedule adopted with four additional Rituximab administrations improves clinical results observed with the standard weekly schedule, confirming the superiority of prolonged exposure to Rituximab. Our clinical results seem similar to those obtained with more aggressive therapies but with a lower degree of haematological and non haematological toxicities. In our opinion this combination may be suggested as first line treatment in management of FL patients, especially in those patients who prefer to avoid more aggressive chemotherapy regimens.

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POSTER

Interleukin-2 in combination with R-CHOP in the treatment of B-cell non-Hodgkin's lymphomas

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Background: Experimental and clinical data suggest that the interleukin-2 (IL-2) increases the antibody-dependent cytotoxicity of rituximab (R). This cytotoxicity is one of the mechanisms of its antitumour activity. Simultaneous administration of these agents was supposed to contribute to an increase of effectiveness in treating B-cell non-Hodgkin's lymphomas (NHL).

Materials and Methods: 79 primary patients were enrolled in a randomized clinical trial. 42 patients received the standard R-CHOP regimen (arm A), 37 – the R-CHOP+IL-2 (Roncoleukin[®], Biotech, Russia) regimen (arm B). IL-2 was administered daily subcutaneously in dose of 1 mg for 5 days during each chemotherapy course. The interval between courses was 21 days.

Results: The comparative assessment of results showed increasing efficacy of treatment in the arm B. Overall response rate (CR + mCR + PR) was 81.5% in the arm A and 91.9% in the arm B. The complete response rate was 63.1% and 75.6% in arms A and B respectively.

It was found that addition of IL-2 to standard R-CHOP regimen was effective in high risk group of patients (International Prognostic Index 3–5). Complete response rate in this group was 78.5% (arm B) versus 54.1% (arm A), $p<0.05$. The follow-up period was from 6 months to 41 months. The median of event-free survival (EFS) was 22.9 months in arm A, and 30.9 months in arm B ($p=0.5$).

Conclusions: Addition of interleukin-2 to the standard R-CHOP regimen for the management of B-cell non-Hodgkin's lymphomas seems to be associated with improvement of efficacy of treatment. The use of this regimen is justifiable for treatment of patients with a high risk of an unfavourable disease course (International Prognostic Index 3–5).

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POSTER

Treatment of previously untreated patients (pts) with AIDS-Related (AR) Non-Hodgkin's lymphoma (NHL) – a Cochrane systematic review

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Background: The incidence of NHL has increased about 100-fold in individuals infected with HIV. Previous studies have indicated that patients with AR-NHL have a poor prognosis. The use of HAART with different chemotherapy regimens improves outcome but there is still disagreement regarding the optimal treatment.

Methods: The Cochrane Library, MEDLINE, EMBASE, LILACS, Gateway and AIDSsearch were used to identify registered randomized clinical trials (RCTs) assessing the effectiveness of systemic treatments for previously untreated AR-NHL pts. There were no age or language restrictions.

Results: The search strategy retrieved 1054 references but only 4 RCTs, with 857 pts treated with chemotherapy plus HAART, fulfilled the inclusion criteria (Kaplan 1991; Kaplan 1997; AMCT-010 2005; NHL-HIV-93 2006). Overall survival (OS) analysis: Kaplan 1997 (standard-dose m-BACOD+GM-CSF vs. low dose m-BACOD) reported a median OS of 35 and 31 wks for pts within low and standard dose respectively (HR 1.17, 95% CI 0.84–1.63; $p=0.25$); AMCT-010 2005 (R-CHOP vs. CHOP) reported a median OS of 139 wks for R-CHOP and 110 wks for the CHOP group ($p=0.76$); NHL-HIV-93 2006 reported no statistically significant differences for OS by any risk stratum (HIV score 0/ACVBP vs. CHOP: HR: 0.96, 95% CI 0.71–1.29, $p=0.79$; HIV score 1/CHOP vs. low-dose CHOP: HR: 1.25, 95% CI 0.88–1.78, $p=0.22$; HIV score 2–3/low-dose CHOP vs. VS: HR: 1.40 95% CI 0.89–2.20, $p=0.14$). Disease-free survival (DFS) analysis: Kaplan 1997 reported a median DFS of 56 and 38 wks for the low-dose and standard-dose group respectively (HR 1.22, 95% CI 0.71–2.09; $p=0.28$); AMCT-010 2005 did not evaluate this outcome and NHL-HIV-93 2006 reported a non-significant difference for DFS by any risk stratum.

Conclusions: Based on primary outcome analysis (OS/PFS) this systematic review did not found strong evidence to support the clinical effectiveness and safety of various chemotherapy approaches for AR-NHL, including those which evaluated the combination of HAART and rituximab with chemotherapy. There is a need for well-designed, adequately-powered randomized controlled trials in order to standardize and improve management of this clinical entity in patients with AIDS.