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leucopenia ( $<4 \times 10^9 / L$ ) during therapy in each group. All the side effects were mild and tolerable.

**COMMENT** There were two more drugs included in COP-PYAM protocol than those in COPP and CHOP. One of them was Pingyangmycin. Perhaps it's why an improved result could be obtained in COP-PYAM group. It may be suggested that COP-PYAM regimen could be accepted as a conventional regimen for NHL. Due to the small population in this studying, a further observation is required for a definite conclusion of COP-PYAM effectiveness in NHL.

**A BRIEF INTRODUCTION OF PINGYANGMYCIN** Pingyangmycin is a unique medicine developed in China, which is produced from *Streptomyces Pingyangensis* n. sp. isolated from soil at Pingyang county of Zhejiang province in southeast China. Components of Pingyangmycin are quite similar to those of Bleomycin with a dominant A5 which possesses higher anti-neoplastic activity, broader anti-tumor spectrum and lower toxicity (esp. pulmonary toxicity). In addition to lymphoma, Pingyangmycin is indicated for a variety of malignancy with mild damage to hematopoietic and immune systems.

## T 193 EVALUATION OF RESULTS OF CHEMOTHERAPY IN NON-HODGKIN'S LYMPHOMAS AMONG EGYPTIAN CHILDREN (1975-1994).

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Egyptian paediatric non-Hodgkin's lymphoma cases treated at the National Cancer Institute, Cairo University during the period 1975-1984 received either the COP or the St. Jude's regimens. Eighty-five cases were included in this retro-spective study below the age of 16 yrs. The median age was 7 yrs., with a male to female ratio of 2.9. Clinically, abdominal presentation was encountered in 43.5% of cases, followed by peripheral lymphadenopathy (42.9%), and mediastinal lymphadenopathy (5.8%). Using Murphy's staging system, 63.5% of cases presented with extensive disease (stages III and IV). Pathologically, following the New Working Formulation 45.8% of cases were of the small non-cleaved type, 35.3% lymphoblastic, 8.2% mixed, 7% large cell, and 3.5% unclassified type. Forty-one cases during the period 1975-1980 were treated with the COP regimen, and 44 cases during the period 1980-1984 with the St. Jude's regimen. Complete remission was attained in 48.7% of cases in the first group versus 87% in the second one, and partial remission was 46.3% and 9% respectively. In the COP group, the 10 yrs Survival Rate (SR), and the Disease-Free Survival (DFS) were 28% and 26.5% versus 55.3% and 55% respectively. Among cases with abdominal presentation, the 10 yrs. DFS was 32% in the COP vs. 73% in the St. Jude's, both figures being superior to those among the peripheral lymphadenopathy group (25.7% and 40% respectively). Limited disease reported a SR and DFS of 61.8% and 92% in both groups vs. 6% and 35% among the extensive disease cases.

## T 194 INDUCTION AND CONSOLIDATION THERAPY FOR NON-HODGKIN'S LYMPHOMA (NHL) IN CHILDHOOD.

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Treatment of childhood NHL is aimed to the maximum obliteration of tumor cells at the initial stage of the disease, i.e. at the period of induction and consolidation therapy. Just during this period, if the treatment has been inadequately performed, especially in children with the unfavourable prognosis, frequent relapses occur with the subsequent progression of the disease. Twenty-two NHL children at 3 to 15 years of age were treated at the department of pediatric oncology. All of children had the unfavourable prognosis: a large tumor, lymphoblastic variant of a tumor process, intoxication symptoms presented as anemia, sweating, fever. The treatment consisted of induction, its consolidation and reinduction. The induction therapy was given with the ACHOP-3 regimen (cyclophosphamide 1,000-1,500 mg/m<sup>2</sup> + oncovin 1.4 mg/m<sup>2</sup> + adriamycin 30 mg/m<sup>2</sup> + prednisolone 2-3 mg/kg, weekly, for 6 weeks). Intrathecal methotrexate (12 mg) and ara-C (20 mg) were administered for prophylaxis of CNS involvement. Consolidation therapy was given 10 days after cessation of induction and consisted of ara-C (100 mg/m<sup>2</sup>) plus leunase (10,000 U/m<sup>2</sup>), then methotrexate (1,000 mg/m<sup>2</sup>) administered intravenously with leucovorin (10 mg). The cranial radiation (total dose of 15 Gy) was performed for prophylaxis of CNS involvement. As a result of treatment, 17 patients (77.2%) achieved complete remission, 3 patients (17.4%) - partial remission, 2 patients died of the disease progression. Mostly children tolerated combination chemotherapy in standard and high doses satisfactorily. The side-effects were reversible. The intensification of regimens for patients with risk factors allowed to improve the treatment outcome.

## T 195 RESULTS OF A TREATMENT OF CHILDREN SUFFERING FROM NON-HODGKIN'S LYMPHOMA (T-TYPE)

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At the Hematology-Oncology Department Children's Clinic Šalata Medical Faculty Zagreb Croatia, 78 children (average age 7.8 years) were treated for non-Hodgkin's (NHL) lymphoma (T-type, lymphoblastic histology) from 1977 till 1990. Three different protocols were used - Protocol YU-77 (1.01.1977 - 31.12.1983; 35 children), Protocol YU-84 (1.01.1984 - 31.12.1986; 15 children), Protocol YU-87 (1.01.1987 - 31.12.1990; 28 children). The first complete remission was achieved in 29 patients (82.8%) treated with Protocol YU-77, in 13 (86.6%) treated with Protocol YU-84 and in 24 patients (85.7%) treated with Protocol YU-87 ( $p > 0.05$ ). The first relapse was observed in 13 patients (37%) treated with Protocol YU-77, in 3 patients (20%) treated with Protocol YU-84 and in 4 patients (14.2%) treated with Protocol YU-87; the differences are statistically not significant ( $p > 0.05$ ). The first hematological relapse was observed in 7 patients (20%) treated with Protocol YU-77 and in 2 patients (13.3%) treated with Protocol YU-84; the differences are statistically significant ( $p < 0.05$ ). The first meningeal relapse was observed in 3 patients (8.5%) treated with Protocol YU-77 and in 1 patient (6.6%) treated with Protocol YU-84; the differences are not statistically significant ( $p > 0.05$ ). The first local relapse was observed in 3 patients (8.5%) treated with Protocol YU-77 and in 3 patients (10.7%) treated with Protocol YU-87; the differences are not statistically significant ( $p > 0.05$ ). The first hematological and testicular relapse was observed only in 1 patient (3.5%) treated with Protocol YU-87; the differences are not statistically significant ( $p > 0.05$ ). Survival probability of 60 months for patients treated with Protocol YU-77 was 48.6%, for patients treated with Protocol YU-84 66.7% and for patients treated with Protocol YU-87 87.5%; the differences are statistically significant ( $p < 0.05$ ). The best results were achieved with Protocol YU-87 and they do not differ essentially from those achieved in other similar European Centres.







