

Correspondence and Short Communications

Comments on published articles, short communications of a preliminary nature, case reports, technical notes and the like are accepted under this heading. The articles should be short and concise and contain a minimum of figures, tables and references.

PHASE II STUDY OF THREE DAYS' FRACTIONATED DOSAGE OF IFOSFAMIDE, EPIRUBICIN AND CISPLATIN IN SMALL CELL LUNG CANCER

At the 6th World Congress on Lung Cancer in 1991 (1) we reported data on small cell lung cancer (SCLC) treated with IEP regimen (ifosfamide 3 g/m², epirubicin 60 mg/m², cisplatin 60 mg/m²). In a series of 49 cases we observed a response rate of 87% with 22% complete response (CR). Trying to improve the CR rate we have later on started a new phase II study including the same drugs but fractionated over three days. The main reason for the fractionation is the pharmacodynamics of ifosfamide. Fractionation of ifosfamide over 1-5 days has been reported to increase tolerability and remission rates in several solid tumors (2). Our study, which started in January 1992, has now accrued 19 patients of whom 14 are evaluable concerning initial response.

Material and Methods. All consecutive cases of patients with histologically proven SCLC and Karnofsky \geq 50 were included in the study. Even patients with radiotherapy for superior vena cava syndrome or brain metastases were included. Before treatment all patients had a complete physical examination. Laboratory work-up included complete blood counts, serum creatinine, albumin, alkaline phosphatase, LDH, radionuclide bone scan and liver ultrasound. Brain scan and bone marrow studies were carried out only when clinically indicated.

Combination chemotherapy was given as follows: ifosfamide 2 gm/m² diluted in 500 ml 5% dextrose intravenously (i.v.) as a 4-h infusion on days 1, 2, and 3 with mesna uroprotection (20% of ifosfamide doses at 0, 4 and 8 h after ifosfamide). Epirubicin 20 mg/m²/day and cisplatin 20 mg/m²/day i.v. on days 1, 2 and 3. Drug doses for the subsequent courses of therapy should be modified by 25% reduction of epirubicin and ifosfamide dosage if WBC nadir $<10^9/l$ and thrombocytopenia $50 \cdot 10^9/l$. Patients presenting with limited disease received, after complete or partial response to chemotherapy, thoracic radiotherapy (35-60 Gy). Prophylactic cranial irradiation was decided on in each individual case. Tumor response and toxicity were defined according to WHO criteria (3). Response duration and survival were calculated from the data of first treatment.

Results. Nineteen cases were entered into the study, of which 14 were evaluable (Table 1). Of 9 cases with limited disease, 7 achieved partial response (PR) (78%) whereas one case had complete response (CR) (11%). Six cases (5 PR, 1 CR) received thoracic irradiation (55 Gy) after chemotherapy. Survival duration of the responders (CR + PR) was 8+ to 14+ months (Table 2). Of 5 patients with extensive disease, three achieved partial response (60%) and one complete response (20%). Survival duration of the responders (CR + PR) was 5+ to 29+ months.

Toxicity. The most common toxic effects were alopecia, nausea, vomiting and myelosuppression. Neuropathy was seen in one-fourth of all cases. Sixty percent of the patients had grade 3 and 4 leukopenia (with one septic death). Six cases (40%) had anemia of grade 3 and 4. Twenty-eight percent had thrombocytopenia of grade 3 and 4 (Table 3). Due to grade 3 and 4 leukopenia, the dosage of epirubicin and ifosfamide were reduced accordingly.

Table 1

Patient characteristics

Entered (n)	19
Eligible for evaluation (n)	14
Male/Female	8/6
Median age years (range)	60 (38-71)
Median Karnofsky index	70
Limited disease (n)	9*
Extensive disease (n)	5**

* One patient had failed after previous chemotherapy (carboplatin, epirubicin and cyclophosphamide).

** One patient had brain metastasis and had received whole brain irradiation prior to the study.

Table 2

Results

	Number (cases)	CR		PR	
		cases (%)	cases (%)	cases (%)	cases (%)
Limited disease	9	1 (11)	7 (78)		
Extensive disease	5	1 (20)	3 (60)		

CR = complete response; PR = partial response

Table 3

Toxicities (%)

	Grade			
	1	2	3	4
Anemia	7.1	28.5	28.5	14.2
Leukopenia	7.1	7.1	28.5	21.4
Thrombocytopenia	-	-	21.4	7.1
Nephrotoxicity	14.2	-	7.1	-
Mucositis	-	7.1	7.1	-

Discussion. The purpose of this study was to increase response rate and survival time of small cell lung cancer by a 3-day fractionated dosage of IEP instead of our initial IEP regimen (1). However, with the dosage modification used we were not able to demonstrate improvement of CR rate or survival time. The toxicity of this regimen seems to be worse than that of the original IEP. Fifty percent had grade 3 and 4 leukopenia (with one septic death), only one case had grade 4 thrombocytopenia. We conclude that the 3-day fractionation regimen did not yield any benefit compared to the original schedule.

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December 1993

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Paper presented at 18th International Congress of Chemotherapy, Stockholm, Sweden, June 27-July 2, 1993.

are associated with malignancy, and cannot be distinguished from the idiopathic form, however, extracutaneous manifestations, anemia, platelet count abnormalities, absence of neutrophilia, involvement of the oral mucosa and lower extremities, and a high rate of recurrence bespeak the presence of an associated malignancy (3–6). Sweet's syndrome may occur preceding, concurrently with or succeeding the malignancy, a recurrence sometimes indicating the recurrence of the tumor (4). Hematological malignancies, especially acute myeloid leukemia, constitute the majority of the malignancies associated with Sweet's syndrome, and solid tumors a minor 15% (4–6).

A 40-year-old male patient applied to our clinic with itching, night sweats, fever, generalized lymphadenopathy, and a peculiar rash. The itching and the rash had been present for a year and been treated without success by a dermatologist. The other symptoms had appeared during the last 2 months. The physical examination revealed bilateral cervical and supraclavicular, left axillary and bilateral inguinal lymphadenopathy, tender erythematous plaques mainly located on the head, neck, upper torso and extremities, and conjunctivitis. The erythrocyte sedimentation rate was 140 mm/h, and the leukocyte count $24.0 \cdot 10^9/l$. A thorax CT revealed multiple mediastinal lymphadenopathies. Biopsy of an axillary lymph node and a skin lesion resulted in the diagnosis of Hodgkin's disease and acute neutrophilic dermatosis (Sweet's syndrome). The patient was started on MOPP chemotherapy with additional maintenance steroid. After the first cycle, the lymph nodes were no longer palpable, and there was no sign of an acute skin eruption except for hyperpigmentation on the site of previous lesions. The patient has been followed through 4 uneventful cycles of chemotherapy.

The association of Hodgkin's disease with Sweet's syndrome has been previously reported in two cases (7, 8). Our patient has the cardinal characteristics of Sweet's syndrome, such as skin eruption, fever, conjunctivitis, high sedimentation rate, leukocytosis, histological findings, and dramatic response to corticosteroid treatment. The rare association with Hodgkin's disease, the appearance of skin symptoms 10 months before the manifestations of malignant disease and resistance to previous dermatological treatment constitute the remarkable aspects of the case reported. This resistance to symptomatic treatment, extracutaneous manifestation in the form of conjunctivitis, anemia and the long history without any spontaneous regression have been regarded as evidence of underlying malignancy.

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January 1994

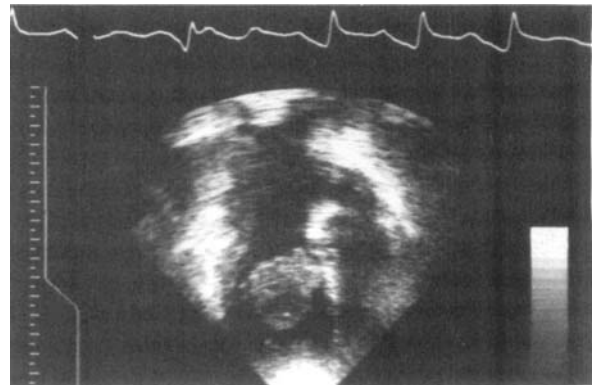
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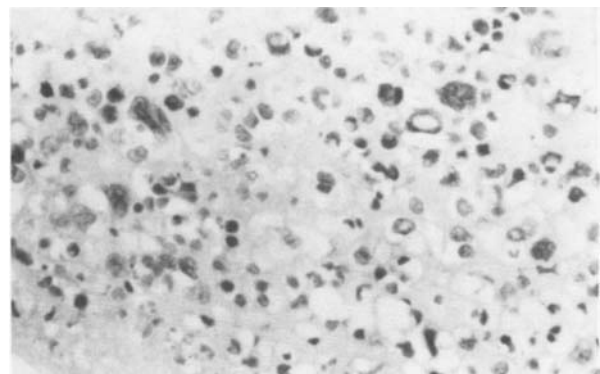
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LEFT ATRIAL BALL THROMBUS WITH HISTOLOGIC FEATURES OF EXTRANODAL B-CELL LYMPHOMA—PROLONGED SURVIVAL AFTER SURGERY

Primary cardiac lymphomas themselves are extremely rare with poor prognosis (1, 2). We document a case of primary lymphoma in which the initial presenting feature was heart failure because of large mass in the left atrium, with recovery after surgery.



A)



B)

Fig. 1. A) Echocardiogram (mono- and bidimensional): large mass in the left atrium. B) Malignant lymphoma showing large cells with folded nuclei. H.E. $\times 400$.

Case report. A 33-year-old woman was referred in December 1987 to the Service of Internal Medicine following a surgically excised intracavitary tumor of the left atrium, attached to the mitral valve (Fig. 1A), responsible for the initial clinical picture of heart failure. Microscopic examination revealed a thrombus with involvement by polymorphic, large and multinucleate neoplastic cells, with occasionally prominent nucleoli (Fig. 1B). Immunohistochemical studies showed the immunophenotype CD45 and CD20 and because the study was on paraffin-embedded tissue, surface immunoglobulin was not performed. She had had mitral valve disease for 5 years and a transient ischemic attack. Physical examination revealed no lymphadenopathy or hepatosplenomegaly; it was also otherwise unremarkable. Complete blood counts, urinary analysis and chemistry profile were normal. Computed tomographic (CT) body and cranial scans, radionuclide bone scan, bone marrow, tumor markers (alpha-fetoprotein, carcinoembryonic antigen, beta-human chorionic gonadotropin) and HIV-virus antibody test, were negative. Periodical examinations till June 1993 with CT body scan and tumor markers showed no evidence of recurrent disease.

Discussion. Primary cardiac lymphomatous tumors are large, may involve the pericardium and any chamber, most frequently the right atrium, and lead to death after the onset of symptoms (3). Our case had a large thrombus in the left atrium with involvement by neoplastic cells, and with clinicopathologic features of extranodal B-cell derived lymphomas of large cells, expressing a B-cell restricted antigen (CD20). Unlike most reported primary lymphomas of the heart (1, 4), our patient recovered after surgery. The diagnosis of a primary lymphoma in the heart is beyond any doubt, as no tumor was detected elsewhere. It is also remarkable that the disease was not associated with acquired immune deficiency. The histogenesis of cardiac lymphomas is unclear, though extranodal lymphoma can occur in any organ of the human body (5). Malignant lymphoma may be confused with malignant angioendotheliomatosis (MAE), which is characterized by massive proliferation of mononuclear neoplastic cells within the blood vessels of the skin and central nervous system primarily, but any organ can be involved (6). Some investigators have demonstrated that both conditions express the leukocyte common antigen and have characterized the antigen phenotype of MAE as being an angiotropic large cell lymphoma (7). A search of the literature revealed no previous reports similar to the present one. The

clinical presentation of our case was not similar to those of primary cardiac lymphomas (2, 3) nor MAE (6, 7), but histological and immunohistochemical analyses suggested a lymphoid origin.

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January 1994

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1st BALTIC CONGRESS OF ONCOLOGY AND RADIOTHERAPY

Tallinn, October 12-15, 1994
The Hall of Estonian Fairs, Pirita tee 28

The main topics of the congress:

- Cancer research ● Cancer statistics and epidemiology ● Cancer prevention ● Clinical oncology
- Rehabilitation ● Cancer nursing ● Modern concepts in diagnostic imaging ● Radiobiology
- Radiation physics ● Radiotherapy ● Economics and training ●

Official language of the congress is English.

The commercial exhibition will be organized at the congress venue. All activities concerning marketing part of organizing exhibition will be delegated to the Estonian Fairs.

President of the congress: Professor Väino Rätsep
Secretary general: Dr Indrek Oro

Further information can be obtained from: The Estonian Cancer Society, Hiiu 44, EE 0107 Tallinn, Estonia