## **Photoclinic**

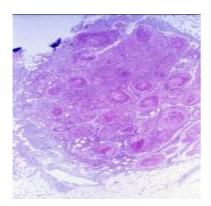
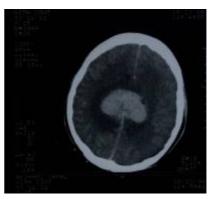


Figure 1. The microscopic picture of the primary tumor.



**Figure 2**. Computerized tomography of the brain showing the diffuse lesion in the central part of the brain.



**Figure 3.** Computerized tomography of the brain after treatment with rituximab.

his article presents a 28-year-old man who had stage III diffuse large B-cell lymphoma (Figure 1). He had undergone surgical resection and chemoradiotherapy three years ago as the primary treatment. Recently, he has developed a gradual headache and insomnia; computerized tomography showed

mass lesions in the brain (Figure 2). Work-up for the primary lesion was negative at that time.

Habib Noorani MD\*

**Author's affiliation:** \*Department of Medicine, Nemazee Hospital, Shiraz University of Medical Sciences, Shiraz, Iran.

•Corresponding author and reprints: Habib Noorani MD, Department of Medicine, Nemazee Hospital, Shiraz University of Medical Sciences, Shiraz, Iran.

Tel: +98-711-233-8533, E-mail: nooranih@sums.ac.ir

Accepted for publication: 15 January 2009

## What is Your Diagnosis?

See the next page for the diagnosis.

Photoclinic Diagnosis:

## **Gastric Lymphoma with Unusual Brain Metastasis**

rimary gastric lymphoma is a broadspectrum disease accounting for 2% of lymphomas and the stomach is the most extranodal common site for lymphomas. Histologically, these tumors may vary from mcucosa associated lymphoid tissue (MALT) lymphoma to high-grade large cell lymphoma. Helicobacter pylori is a cause for the disease. Chemotherapy and surgery can improve the fiveyear survival upto 40 - 60% for localized cases. Normally, it spreads into the regional lymph nodes, and then progresses to the distant organs. In resistant and unresponsive cases, local recurrence occurs. In this article, we present a late isolated brain metastasis with gastric in the lymphoma, not commonly reported literature, 1,2 and its unique response to the treatment.

The patient's disease was transiently controlled after radiotherapy to the brain and multiple chemotherapy regimens [cyclophosphamide, hydroxydaunorubicin, Oncovin (vincristine), and prednisone (CHOP), moderate-dose methotrexate, bleomycin, Adriamycin, cyclophosphamide, Oncovin, and dexamethasone (M-BACOD), and dihydroxyacetone phosphate (DHAP)], while it was ultimately controlled with monoclonal antibody rituximab, an anti-CD20 antibody, 375mg/sq² four times weekly followed by the

dosage used every three months. Now he is symptom free up to one year after the treatment (Figure 3). The pattern of computerized tomography and response to the treatment was very interesting in this case. In a review of the literature, this behavior is not common in gastric lymphoma.<sup>3,4</sup> With modern treatment modalities in the gastric lymphoma, the prognosis is better; so, the local control is complete but remote metastasis might happen as seen in this case. Modern modes of treatment such as monoclonal antibody should be considered in the unusual metastatic forms.

## References

- Guermazi A, Brice P, de Kerviler EE, Fermé C, Hennequin C, Meignin V, et al. Extranodal Hodgkin disease: spectrum of disease. *Radiographics*. 2001; **21**: 161 179.
- 2 Beutler E, Williams WJ. Williams' Hematology. New York: McGraw-Hill, Medical Publishing Division; 2007: 1411 – 1412.
- 3 Haber DA, Mayer RJ. Primary gastrointestinal lymphoma. *Semin Oncol.* 1988; **15:** 154 169.
- 4 Davis TA, Grillo-López AJ, White CA, McLaughlin P, Czuczman MS, Link BK, et al. Rituximab anti-CD20 monoclonal antibody therapy in non-Hodgkin's lymphoma: safety and efficacy of re-treatment. *J Clin Oncol*. 2000; **18:** 3135 3143.