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**Investigator:**

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**Title:**

**Maintenance treatment with interferon-alpha following intensive multi-agent chemotherapy and surgery for high-grade osteosarcoma**

**Objectives:**

The main objective of the planned trial is to improve the prognosis of patients with osteosarcoma within the scope of a prospective, randomised trial by

- a) offering modern interdisciplinary treatment to a much wider spectrum of patients than the usual prospective osteosarcoma trials, which have generally been limited to young patients with nonmetastatic extremity disease.
- b) evaluating whether maintenance therapy with interferon alfa following the completion of standard multidrug chemotherapy is associated with a survival benefit for this cohort.

Secondary objectives are the prospective evaluation of prognostic factors, the improvement of outcome for known poor prognostic subgroups, and the evaluation of possible correlations between fluctuations in the serum levels of angiogenic substances during therapy, treatment related factors, and outcome.