

New chemo regimen helps children with neuroblastoma

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A new high-dose chemotherapy regimen has been cancer in the first year of life and accounts for shown to improve survival of children with high-risk approximately 15 percent of childhood cancer neuroblastoma, a common pediatric cancer, according to a European clinical trial published Sunday.

"The study's results are important for patients with this extremely difficult to treat disease," said lead author Ruth Ladenstein of the University of Vienna and St. Anna Children's Cancer Research Institute in Vienna, Austria.

The results were presented in Chicago at the 47th annual conference of the American Society of Clinical Oncology. More than 30,000 researchers and representatives of pharmaceutical companies participated in the forum.

The phase 3 trial showed better overall survival with a combination of the myeloablative chemotherapy drugs busulphan and melphalan (BuMel) compared to a different myeloablative regimen of three chemotherapy drugs, carboplatin, etoposide and melphalan (CEM).

Previously, only 30 percent of children with highrisk neuroblastoma survive long-term.

The study's results show that survival can increase by 20 percent.

"We could potentially improve overall prognosis by up to 35 percent in the future," Ladenstein said.

"Thus, we overcome the 50 percent threshold in survival rates by choosing the right high-dose myeloablative regimen for these patients," she added.

Myeloablative chemotherapy is high-dose chemotherapy that kills cells in the bone marrow, including cancer cells.

Neuroblastoma is rare, but is the most common

deaths.

About 650 cases are diagnosed each year in the United States, with 40 percent considered high-risk, meaning they are "very likely to recur or progress, despite therapy," the study said.

The trial involved 563 children -- median age 3. After three years, the survival was 60 percent for those receiving busulphan-melphalan compared to 48 percent for the CEM group "and the busulphan group had lower rates of relapse and progression."

"Based on the results, the randomization was stopped early," the study said.

The treatment-related death rate was 3 percent for the busulphan regimen and 5 percent for CEM, the study said.

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