S-039  SURGICAL MANAGEMENT OF CHILDREN WITH ADVANCED NEUROBLASTOMA

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PURPOSE: To correlate resection of primary tumor with overall survival (OS) in children with Advanced neuroblastoma (ANB) with AIIMS-Neuroblastoma-96 protocol.

METHODS: 86 patients with ANB (stage 3&4) treated with Chemotherapy (cyclophosphamide, doxorubicin, etoposide and cisplatin), Surgery and Radiotherapy during May 1996-August 2005, were evaluated for age, stage, location and overall survival with surgery. MIBG therapy was given to 6. [Only two patients in stage 1 & 2 and Six in stage 4S were also seen].

RESULTS: OS was 61.3% with a mean survival time of 55.5 months (95% CI 42.9-68). The 3-year disease free survival (DFS) was 31.4%. Forty-five (52.3%) underwent resection with an OS of 66.7% and the DFS was 44.2%. In 23 (26.7%) with less than 1 year age 7 (30.4%) underwent resection and OS was 85.7%. Of 63 (73.3%) children >1 year age and 38 (60.3%) underwent resection with 63.1% OS. Of 36 stage-3 patients, 22 underwent resection with 68.1% OS. Among 41 with stage-4 patients 17 (41.5%) underwent resection with 52.9% OS. Of 53 adrenal and 33 non adrenal tumors, 29 and 16 underwent resection with 62% and 75% OS. MIBG worked partially in advanced disease. 5/6 with stage 4S NB survived.

CONCLUSIONS: Though OS was not significantly different, 3-year DFS was significantly better after tumor resection (44.2% vs 19.5%). Survival rate was significantly better in patients <1-year of age (85.7% vs 50%), stage-3 patients (68% vs 57%), and with tumor of adrenal origin (62% vs 37.5%) after surgery.