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A clinical phase I study reported significant shrinkage of plexiform neurofibromas following treatment with the MEK inhibitor selumetinib.

Vaassen et al., reported an 11-year-old Neurofibromatosis type 1 patient with a large plexiform neurofibroma of the neck that had led to a sharp-angled kinking of the cervical spine and subsequent myelopathy. Although surgical stabilization of the cervical vertebral column was urgently recommended, the vertebral column was inaccessible due to extensive tumor growth. In this situation, treatment with the MEK inhibitor trametinib was initiated which resulted in a 22% reduction in tumor volume after 6 months of therapy and finally enabled surgery. These data show that MEK inhibitors may not lead to complete disappearance of NF1-associated plexiform neurofibromas but can be an essential step in a multimodal therapeutic approach for these tumors. The course of this patient suggests that MEK inhibitors are likely to play a significant role in providing a cure for one of the most devastating manifestations of NF1 ¹⁾.

1)

Vaassen P, Dürr N, Röhrig A, Willing R, Rosenbaum T. Trametinib Induces Neurofibroma Shrinkage and Enables Surgery. Neuropediatrics. 2019 May 29. doi: 10.1055/s-0039-1691830. [Epub ahead of print] PubMed PMID: 31141829.

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