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## Rare Complication of Chiari Type 1 Malformation: Cervical Kyphosis

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1           **Rare Complication of Chiari Type 1 Malformation: Cervical Kyphosis**

2     A 19-year old male patient was admitted our Neurosurgery Department with cervical  
3     pain for one year. Neurological examination was normal. Magnetic resonance  
4     imaging (MRI) was performed revealing a Chiari 1 malformation (with a tonsillar  
5     herniation into the foramen magnum, syringomyelia, and hydrocephalus) as well as a  
6     cervical kyphosis, which is rarely seen with Chiari 1 malformations (Figure 1-2).

7     **Figure 1:** Sagittal MR image shows cerebellar tonsillar herniation (arrow), cervical  
8     kyphosis (white asterisk), and cervical syringomyelia (dark asterisk).

9     **Figure 2:** Axial FLAIR MR image shows hydrocephalus associated with Chiari type 1  
10    malformation.



