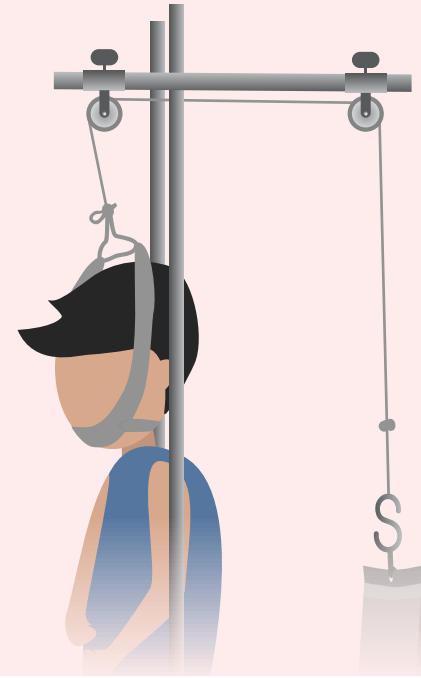


Cervical Halter Traction for the Treatment of Children with Atlantoaxial Rotatory Fixation

Atlantoaxial rotatory fixation (AARF) is a spectrum of rotational abnormalities of the C1 and C2 vertebrae that impedes neck movements



A retrospective cohort study to evaluate the efficacy and long-term outcomes of halter traction in treating AARF

Children diagnosed with AARF
n = 43
(Average age = 7.9 years)



Male
(n = 31)



Female
(n = 12)



In-hospital cervical halter traction and follow-up (≥ 12 months)

Analysis

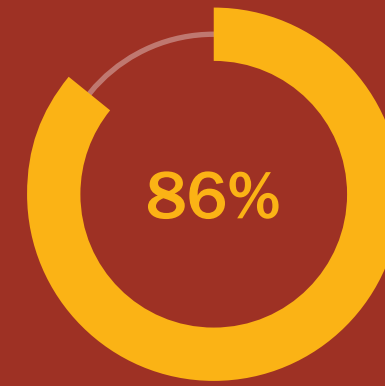


Radiographic outcomes

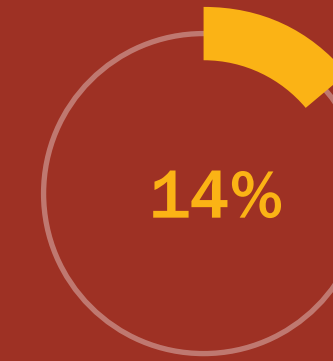


Long-term clinical outcomes

Factors associated with AARF

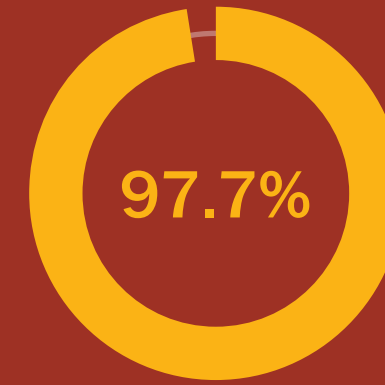


Minor trauma

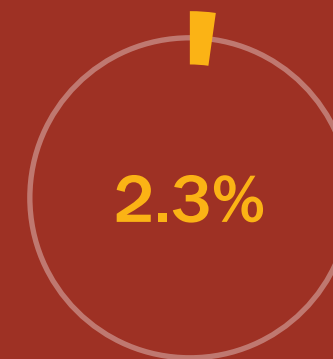


Upper respiratory infection
(Grisel syndrome)

After cervical halter traction



Patients achieved normal cervical alignment



Patients experienced recurrence



No neurological deficits or major complications

Cervical halter traction restores normal cervical alignment in most cases of AARF

Halter Traction for the Treatment of Atlantoaxial Rotatory Fixation

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