# Complications in patients with VEPTR instrumentation are strongly associated with basic diagnosis

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• This is a five year material of how VEPTR instrumentation has been used in Finland after 2005.

## Patients:

- Eighteen patients were operated
  - 8 with congenital scoliosis (CS)
  - 5 with neuromuscular scoliosis (NMS)
  - 3 with infantile scoliosis (IF)
  - 1 with kyphosis and 1 with lordosis
- The mean age at the time of operation was 6.4 years (range 1,0-16,7 years).
- eleven boys and seven girls.

- The mean Cobb angle before operation on the scoliosis patients was 62 dgr (range 40-90 dgr) and
- The mean Cobb angle after operation was 29 dgr (range 8-73 dgr).
- The best correction was achieved mainly in the first operation

- There were twenty-two complications on nine patients, where the other nine patients did not have any.
- Five patients had only one complication, four patients had two or more.

- The most common complication was loosening of the VEPTR foundation in eighteen cases.
  - in two cases an emergency operation was needed
- In four cases there were skin problems because of the VEPTR instrumentation
  - three had to be removed in, two permanently

- Complications:
  - less complications in patients <5 years (38%)</li>
    than in older patients (60%).
  - 52% of the complications were in NMS patients
  - 33% of the complications in IF patients
  - -10% of the complications in CS patients.

### Conclusion:

• VEPTR instrumentation seems to work best in young patients with congenital scoliosis.

#### Thank You!