

# Hypermagnesemia

**Hypermagnesemia** means the value of Mg > 1.0 mmol/l. Hypermagnesemia is a rarity in children and increased magnesemia could be present in renal failure, adrenal insufficiency and in newborns whose mothers were treated with magnesium salts for *eclampsia* before delivery. In newborns, the symptoms include muscle hypotension, decreased tendon reflexes, bradycardia, apnoea, and delayed meconium emptying.

## Treatment

**Treatment is usually not necessary.** We will stop the supply of magnesium. In severe cases, *10% Calcium gluconicum* (1 ml = 0.2 mmol) 0.5 to 1.0 ml/kg or *10% Calcium chloratum* (1 ml = 1 mmol) 0.1 to 0.2 ml/kg iv within 10 minutes (maximum single dose is 10 mmol). At the same time, we control the heart rate (there is a risk of bradycardia with rapid administration).

Another option is to administer furosemide 1 mg/kg iv or corticoids (prednisone 1 mg/kg). In extreme cases, we can also indicate hemodialysis.

## References

### External Links

- Hypermagnesémie a EKG (TECHmED) (<https://www.techmed.sk/hypermagnezemia-hypomagnezemia/>)

### Source

- HAVRÁNEK, Jiří: *Dysbalance magnesia*. (upraveno)

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