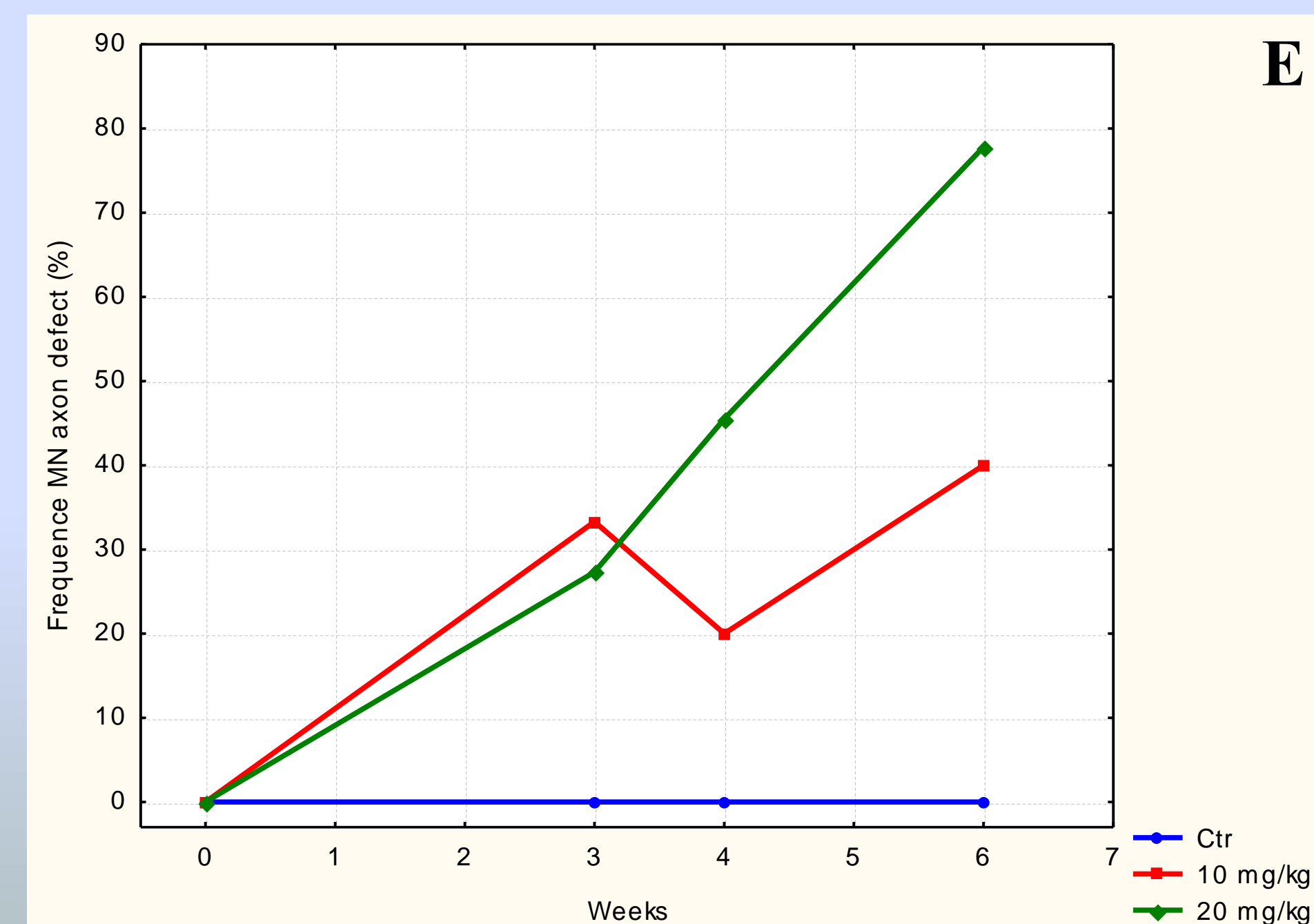


N I F E S

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Start feeding females
@ 6 months

3 weeks

Cross females
with untreated males

6 weeks


Maternal transfer
of MeHg

Bar chart showing the concentration of Hg in eggs (ng Hg/egg) for four groups: Start, Ctr, 10 mg/kg, and 20 mg/kg. The y-axis ranges from 0 to 9. The 20 mg/kg group shows the highest concentration, around 6.6 ng Hg/egg, with a large error bar.

Group	ng Hg/egg (approx.)
Start	0.1
Ctr	0.2
10 mg/kg	2.6
20 mg/kg	6.6

0 mg/kg Hg
10 mg/kg Hg
20 mg/kg Hg

6 weeks
6 weeks
6 weeks



- Dietary MeHg is transferred from female zebrafish to progeny in a dose dependent manner.
- Maternally transferred MeHg affects growth of spinal cord primary motorneurons in zebrafish embryos that innervate trunk muscles, but does not affect branchial motorneurons.
- Maternally transferred MeHg reduces expression in developing trunk muscles of a motorneuron axon guidance protein of the Ephrin family.