

TTD patient Emma, Feb. 3, 2017

At the age of 6
Emma cannot
walk, talk, read or
write. She
received 1150 kcal
largely by PEG and
had no appetite ...



... crawling (note also hampered motor coordination) ...

TTD patient Emma

Early 2018 she developed severe tremors, could not put two Duplo elements on top of each other and - as the disease is progressive - prognosis is unfavorable ...



TTD patient Emma, June. 24, 2018

Based on our mouse studies in consultancy with her doctor and dietician, parents agreed to gradually, carefully reduce calorie intake from 1150 kCal by PEG to 850 kCal, starting May 28, 2018 ...

... after 12 days Emma completely lost tremors, now builds with Duplo ...



TTD patient Emma, Oct. 29, 2018

After reducing calories from 1150→850 kCal, her neurological decline not only stopped, but she even improved spectacularly ...



... now walks independently ...

Upon reducing (normalizing) calorie intake

from 1150 kcal (PEG) to 835 kcal (mainly oral)

- Emma regained her appetite (640 kcal per os), but ≠ hungry
- in 2 weeks spontaneously lost severe tremors (noted in our mouse models before!), upon ↑ food intake regained tremors, when ↓ food intake they disappeared again.
- does miraculously well: much more (inter)active, interested, participative, explorative, eager to learn and in a good mood
- improved balance: for the first time walks without help,
- now understands, speaks, counts, verbally responds and starts even writing her name!
- parents noted periods of hypothermia (35,2°C) during sleep