

The Zurich Graphomotor Test (ZGT)

Authors: Knaier, E., Chaouch, A., Cafilisch, J. A., Rousson, V., Kakebeeke, T. H., & Jenni, O. G.

The ZGT allows the graphomotor performance of children and adolescents between the ages of 4 and 18 to be assessed. It takes into account the time required for the movement as well as the quality (amount of mistakes).

Execution

Determination of handedness

The ZGT is performed with the dominant hand. Handedness is determined by asking about the writing hand. In the case of younger children or unclear handedness, this is determined with three tasks (hand over an object, demonstrate how to brush your teeth, comb your hair – see ZNM-2 Manual).

Choice of the drawing template

ZGT examination sheet A is used for children aged 4 to 5;11 years, examination sheet B from 6 years onwards.

Instructions

For a standardized implementation of the ZGT, it is important that the task is assigned as follows:

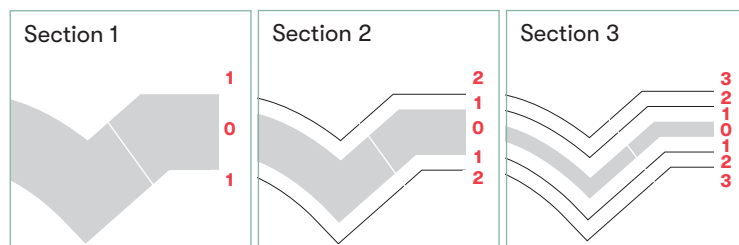
“Drive the ambulance as fast as possible to the hospital, but the ambulance must stay within the boundaries of the gray street. Make sure you do not cross the boundaries. Try it first on the practice trail.”
“Now I will measure how fast you can drive the ambulance all the way to the hospital. Ready, set, go!”

The time from the start to the end of the road is measured in tenths of a second (0:0 sec.).

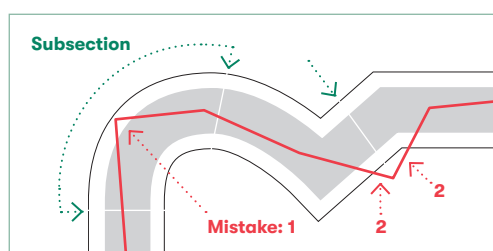
Evaluation

Scoring of the mistakes

The mistakes are judged according to the following evaluation guidelines:



Red numbers indicate how many penalty points (mistakes) are awarded per section depending on how far the line is drawn outside the gray road.



A subsection goes from one white perpendicular line in the road to the next (see green arrows). Mistake evaluation: if the drawn line runs outside the road beyond a subsection boundary, the mistakes are counted for both subsections involved. For the section of the road shown, the sum of the mistakes would be 5.

Application of the ZGTapp

To do this, register at www.znm2019.ch. The registration as well as the subsequent evaluation of the ZGT is free of charge. After logging in, select ZGT. The date of birth, sex and handedness of the test person as well as the test date are entered into the input mask, followed by the measured time and the sum of the mistakes. The program then calculates the percentiles for time, mistakes and finally, the ZGT total score.