

Test-Retest and Interobserver Reliability of EUROTTEST

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Background

EUROTTEST is an easy, brief and useful test, based on the knowledge and handling of currency coins of legal course (Euros), that can be applied to illiterate subjects. EUROTTEST can be used without modifications in all the countries with the Euro monetary system. Previous studies have shown a good capacity of this test to identify subjects with dementia (Carnero C & Montoro MT. *Rev Neurol* 2004; 38:201-209; Carnero Pardo C, et al. *Neurology* 2005; 64 (6): A363).

Objetives

To evaluate EUROTTEST test-retest reliability (Rt-r) and interobserver reliability (Ri)

Methods

To analyze EUROTTEST Rt-r one single investigator evaluated a sample of 29 subjects without CI twice with an interval period of 1-3 months.

To analyze EUROTTEST Ri 15 independent investigators evaluated in a blinded fashion video tape recordered examinations taken from another sample of 10 patients.

Rt-r and Ri of the distraction tool employed in EUROTTEST, namely the Verbal Fluency Test (VFT), were also calculated.

Rt-r and Ri were evaluated with the Interclass correlation coeficient using its own confidence intervals.

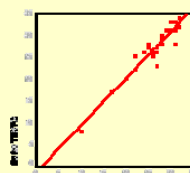


Figure 1

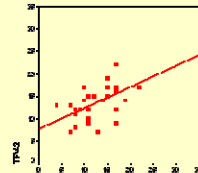


Figure 2

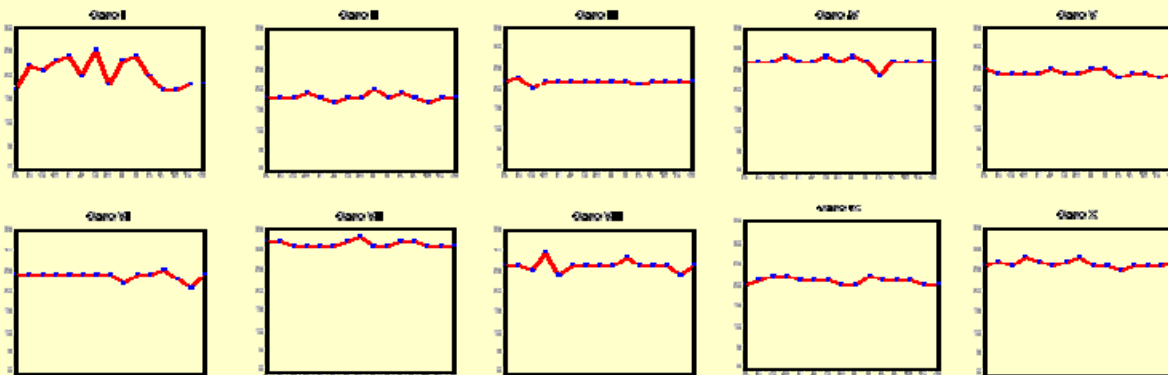


Figure 3

Results

Both samples had similar sociodemographic characteristics and they did not differ from a previous sample used for the EUROTTEST validation. EUROTTEST Rt-r was 0.94 (0.87-0.97) (Figure 1) significantly better than VFT Rt-t: 0.51 (0.19-0.74) (Figure 2). Except for case 1, a high concordance in the rate was found among the different observers (Figure 3), Ri 0.92 (0.84-0.97); VFT Rt-r was Ri 0.95 (0.89-0.98).

Conclusion

EUROTTEST has not only excellent psychometric qualities and is easy to apply, but also it has a high Rt-r value. This fact convert it as a good instrument to assess clinical outcome and therapeutical responsiveness in patients with CI or Dementia. Besides, its excellent Ri make it very useful in a wide broad of dementia units where different investigators are involved in the clinical examination of patients.

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