

Assesement of an e-Learning program of FHR monitoring A randomised study



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Objective

To assess an e-Learning training program of cardiotocography developed in Sweden (Neoventa Academy®) and adapted in French for midwives and obstetricians.

Study design

A randomised controlled trial in 5 Maternity departments from Eastern-Paris Perinatal network. Midwives and obstetricians were offered to participate in the trial on a voluntary basis.

At first logging in the dedicated website, participants were evaluated on fetal acid-base balance and physiology (theoretical part) and on CTG interpretation and labour management (clinical part).

They were then randomly allocated to a group with or without use of the teaching program.

After one month, a second test was performed.

login & informed consent

TEST II

Randomisation stratified by Center

Group without online training

Group with online training

TEST II

Results

76 midwives and 38 obstetricians (total 114) participated in the first test. 57 were allocated to each group, with or without access to the teaching program.

The mean scores were similar in both groups (32.9/50 and 33.5/50, respectively; NS) at the 1st test. 35 participants of the teaching group completed the second test (61.4%) and 28 of the non-teaching group (49.1%; NS).

After training, the results improved significantly in the teaching group (mean 37.1/50; $p < 0.05$), but not in the non-teaching group (mean 32.6; NS). The number of participants with a score of more than 80% increased from 2 to 13 in the teaching group ($p < 0.05$) and remained unchanged (2 to 3) in the non-teaching group.

The number of results in the lowest quartile decreased from 9 on 1st test to 3 on 2nd test ($p = 0.05$) in the teaching group, and did not change significantly (from 6 to 8; NS) in the non-teaching group

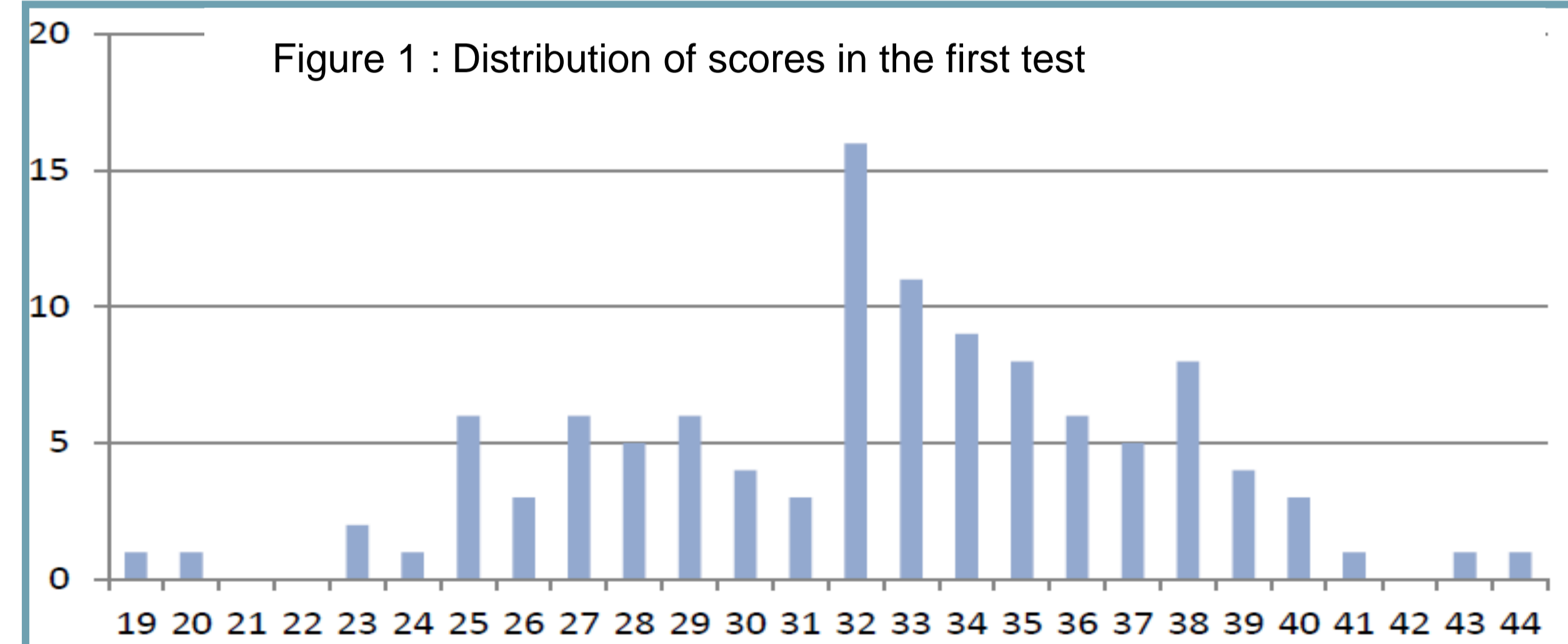


Table 1. Mean score at 1st test

Mean score (/50)	No training group	Training group	p
Theory	15.7	15.7	0.89
Practice	17.8	17.2	0.38
Overall	33.5	32.9	0.56

Table 2. Mean score at 2nd test

Mean score (/50)	No training group	Training group	p
Theory	15.7	19.2	<0.0001
Practice	16.9	17.9	0.53
Overall	32.6	37.1	0.016

Conclusion :

Training in CTG interpretation using an e-Learning program improves the performance of obstetrical staff. Logging in from any place at any time may favour the use of a teaching program, compared to other methods of training

