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Arithmetical and Numerical Learning Difficulties in Stroke Cases: A Case Study of Arabic Speakers

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ABSTRACT Twenty-seven cases of stroke and five normal subjects as control group were studied to see if their numerical and arithmetical abilities were affected. The tests devised for the cases of strike were aimed at finding out if the patients having aphasia always have acalculia and vice versa; does occurrence of one indicate the presence of the other; or do they occur independent of each other. The study also examines if patients having number recognition problem have anomia, word finding difficulties as well; if number recognition and arithmetical disorders occur as mutually exclusive, or inclusive problems. The study also aimed at comparing the number recognition and numerical processing deficit in cases of suffering neurological damage in the left hemisphere with those of suffering neurological damage in the right hemisphere. Finally the study also reflects the nature of difficulty in handling numbers and numerical processes in the subjects under study.