

## Effect of stroke on telomere length in the cells of the subventricular zone of lateral ventricles in mice

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It was shown ischemic cerebral stroke stimulates neurogenesis in the subventricular zone of the lateral ventricles and the subgranular zone of the dentate gyrus of the hippocampus. In the MCAO model of ischemic stroke, these processes have been well studied, but changes in the genetic apparatus of the cells of the neurogenic niche have not been studied. We conducted a study of telomere length in cells of the subventricular zone using the FISH method, because this indicator is considered an important marker of youth and the ability of stem cells to divide. Since the activity of stem cell division increases after MCAO, we assume that telomere length also changes. But the nature of this change is not obvious: one can expect both the forced shortening of telomeres as a result of the increased frequency of cell divisions and their compensatory lengthening.

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