**Table 1. Clinical and demographic patient characteristics (N = 29, mean age 64.4 ± 11.2 years)**

|  |  |  |
| --- | --- | --- |
| **Characteristics** | **Values** | |
| **N** | **%** |
| Gender |  |  |
| female | 7 | 24.1 |
| male | 22 | 75.9 |
| Involved artery |  |  |
| basilar artery | 6 | 20.7 |
| internal carotid artery | 12 | 41.4 |
| middle cerebral arteries | 10 | 34.5 |
| posterior brain arteries | 1 | 3.4 |
| Brain matter involvement grade |  |  |
| F1–2 | 10 | 34.5 |
| F3 and/or small infarctions | 13 | 44.8 |
| large infarctions | 6 | 20.7 |
| Diabetes mellitus | 7/28\* | 25.0 |
| Negative remodeling | 9 | 31.0 |

F1–3, modified Fazekas scale grades for white matter abnormalities

The values are given as absolute patient numbers and proportion of the total number of the study patients (%), arithmetical means and standard deviations (M ± SD)

\* There was missing data for 1 patient

**Table 2. Quantitative parameters of magnetic resonance imaging with dynamic contrast enhancement in the atherosclerotic plaques and unchanged vascular walls of some intracranial arteries**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Kinetic model** | **Parameter** | **AP in the involved artery** | | | **р1** | **Location** | | **р2** |
| **BA**  **(n = 6)** | **ICA**  **(n = 12)** | **MCA**  **(n = 10)** | **AP** | **Unchanged wall** |
| Tofts [19] | Ktrans | 0.021 [0.006; 0.028] | 0.015 [0.004; 0.067] | 0.005 [0.003; 0.115] | 0.821 | 0.015 [0.004; 0.067] | 0.029 [0.010; 0.078] | 0.794 |
| ve | 0.171 [0.146; 0.325] | 0.579 [0.358; 1.000 | 0.134 [0.101; 0.269] | 0.034 | 0.269 [0.134; 0.579] | 0.167 [0.058; 0.301] | 0.244 |
| Patlak [20, 21] | Ktrans | 0.031 [0.000; 0.149] | 0.001 [0.001; 0.003] | 0.000 [0.000; 0.091] | 0.358 | 0.001 [0.000; 0.031] | 0.000 [0.000; 0.001] | 0.131 |
| vp | 0.126 [0.049; 0.153] | 0.441 [0.114; 0.516] | 0.088 [0.060; 0.188] | 0.061 | 0.126 [0.066; 0.296] | 0.180 [0.068; 0.307] | 0.689 |

AP, atherosclerotic plaque; BA, basilar artery; ICA, internal carotid artery; Ktrans, the constant of volume transfer indication vascular wall permeability (min-1); MCA, middle cerebral artery; р1 and p2 , significance of the differences between the groups; ve, extravascular extracellular fraction volume; vp, microvascular fraction volume

The values are given as medians and upper and lower quartiles (Me [Q1; Q3])