

**Study:** Contrast-enhanced magnetic resonance imaging of the brain.

**MRI machine:** Philips Intera 1.5T.

**Age:** 74.

**Sex:** Female.

**Race:** Caucasian.

**Brief anamnesis of the disease (complaints):** dizziness, memory loss, weakness, numbness in the lower/upper extremities (left arm, left leg).

## **REPORT**

A series of T1- and T2-weighted MR tomograms in three planes visualized sub- and supratentorial structures.

The midline structures are not displaced.

In series of IV contrasting in the right frontal and parietal lobes, single focal masses of round shape with diffuse type of contrast accumulation were noted and isointense MR-signal, the sizes were 0.6x0.7 cm and 0.54x0.54 cm, respectively. Against the background of these focal formations defined zone of vasogenic edema in the right hemisphere, spreading in the frontal and parietal lobes, with an approximate extent of 4.4x9.1x4.2 cm, with an indistinctly expressed mass effect in the form of deformation of the upper contour of the right lateral ventricular body.

In the parasagittal sections of the left frontal lobe and left hemisphere of the cerebellum there are single small foci with weak diffuse type of contrast accumulation /visualized on one slice/.

In DWI mode no diffusion disturbance areas were detected.

In the white matter of the frontal and left parietal lobes, subcortically and paraventricularly, multiple foci of gliosis /hyperintense on T2, T2-flair, isointense on T1/ without perifocal infiltration, ranging in size from 0.3 cm to 0.9 cm are detected.

Lateral ventricles are almost symmetrical, not dilated, dimensions within the age normometry, normal configuration. The 3rd ventricle is not dilated. The IVth ventricle is not dilated, not deformed.

No additional formations in the area of the cerebellopontine corners were revealed. Internal auditory canals are not dilated.

Orbits without peculiarities, data for the presence of obvious pathologic structural changes, reliably detected foci of pathologic MR-signal changes in their projection were not revealed. There is no visualization of crystalline lens /susp. postoperative changes/.

The chiasmal area is featureless, the pituitary gland is not enlarged in size, the pituitary tissue has a normal signal. The chiasmal cistern is not changed. The funnel of the pituitary gland is not displaced.

Basal cisterns are not dilated, not deformed.

Subarachnoid convexital spaces and sulci are not dilated. Lateral slits of the brain are symmetrical, not dilated.

The cerebellar tonsils are located at the level of the greater occipital foramen.

Craniovertebral junction - without pathology.

Pneumatization of the facial sinuses is not significantly disturbed.

## **CONCLUSION**

Single /2/ focal masses in the right frontal and parietal lobes with a zone of perifocal vasogenic edema, single /2/ contrast-positive foci in the left frontal lobe and left cerebellar hemisphere /probably mts/.

Numerous supratentorial foci of gliosis (vascular in nature).

## **RECOMMENDATIONS.**

Oncology consultation.

Year of study and report: 2023