Value of Ultrasound Screening of Hemodynamic Disorders in Practice of Speech Therapists and Psychologists

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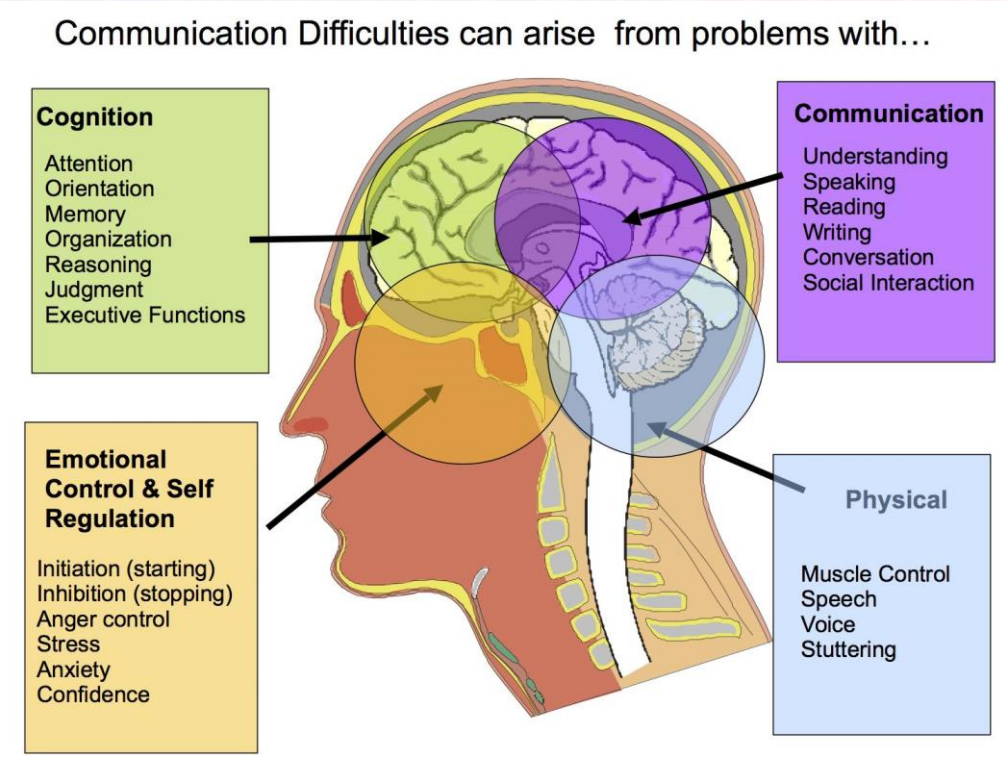
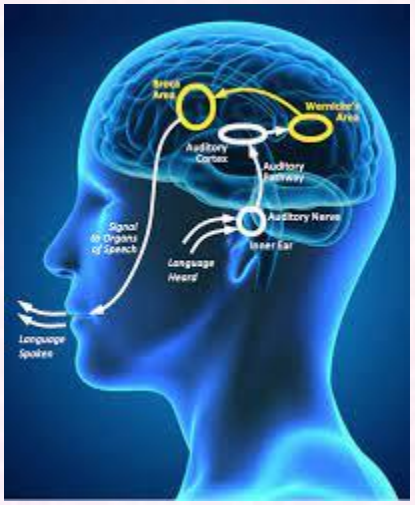
Aim

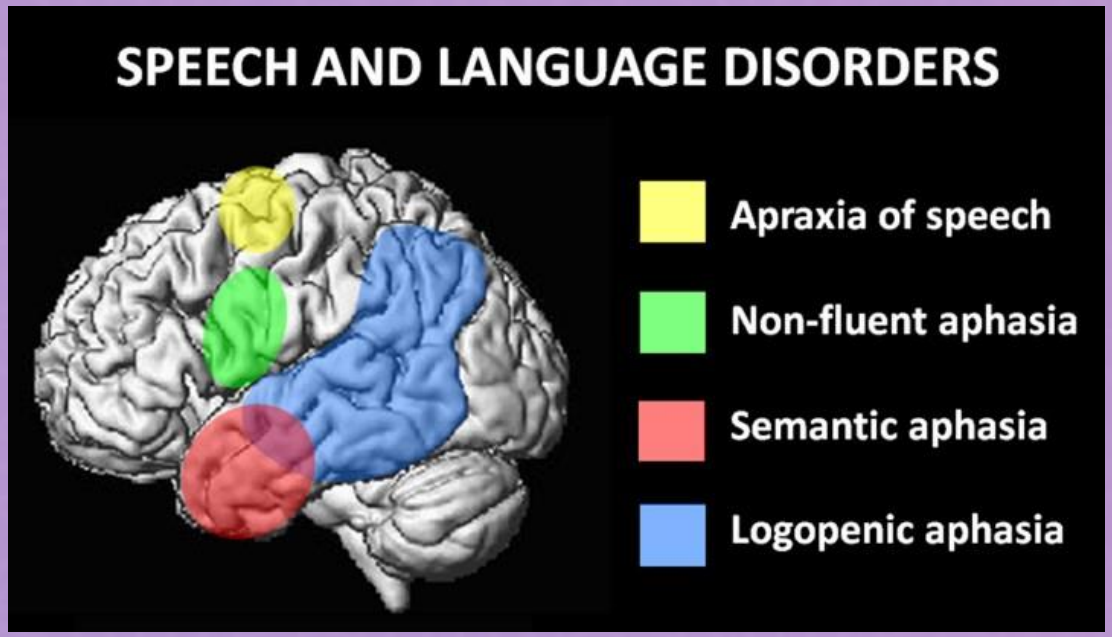
Individual correction of hemodynamic disorders
of cerebral hemodynamics
under ultrasound control
in delayed psychospeech and cognitive development

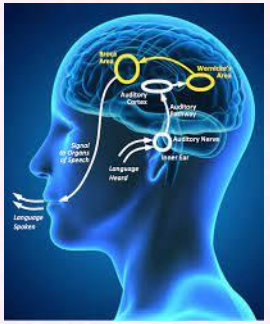




Methods

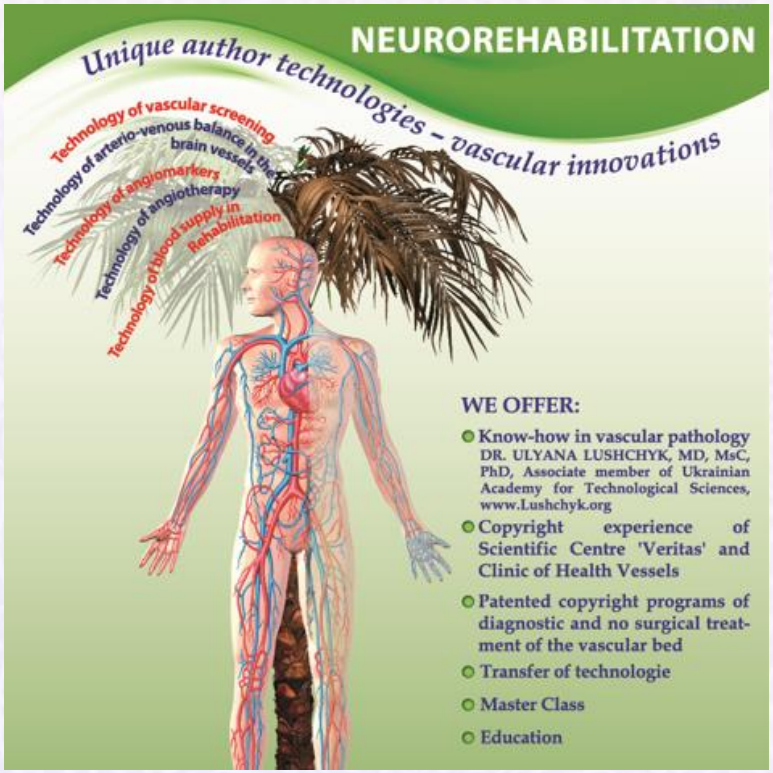
Triplex ultrasound in the study and correction of cerebral hemodynamics and arteriovenous balance

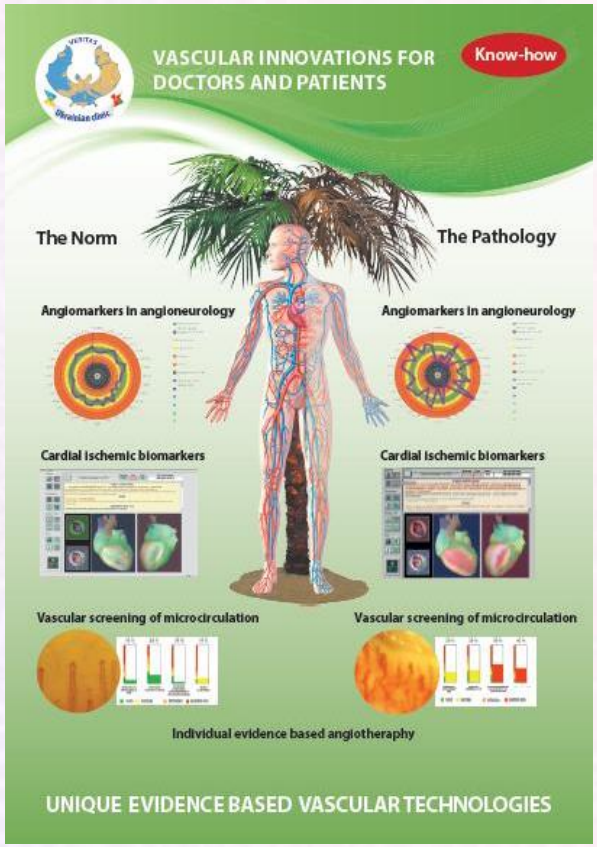


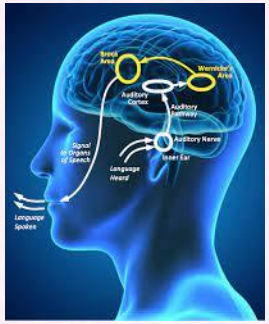


Results

Ultrasound technology of analytical clinical-hemodynamic correlation of hemodynamic and psychoneurological deficits has already been developed and successfully tested with 35 years of experience and is one of the basic technologies for evidence-based medicine and the selection of tactics of medicinal Angiotherapy and Angiocorrection for the recovery of cognitive deficits.



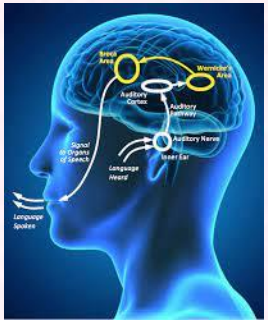




Results

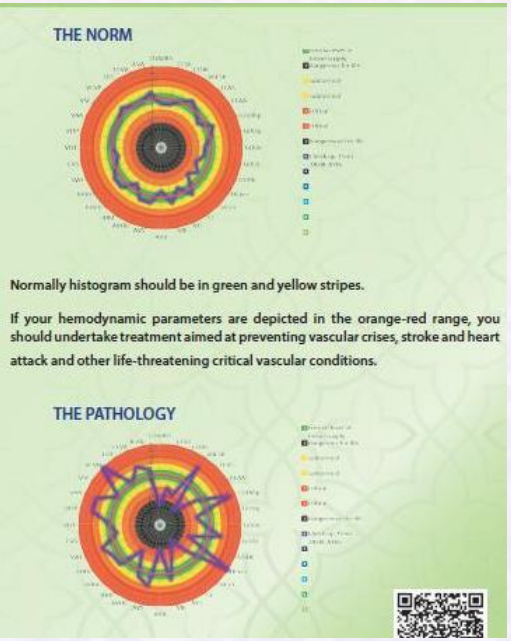
Ultrasound verification and angiocorrection of cerebral dyshemia was performed in 5,683 children and adolescents lasting from 3 months to 2.5 years in order to restore hemodynamic disorders:

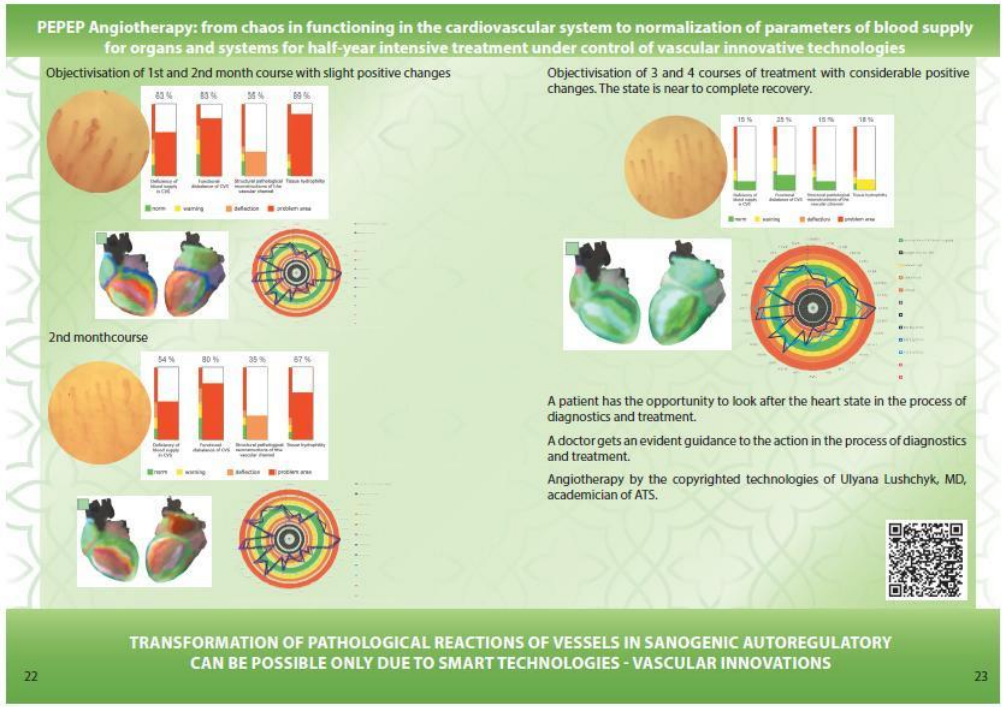
1. arteriovenous balance,
2. pathological arteriovenous shunting,
3. hypoplasia and hypofunction of the middle cerebral artery,
4. hypofunction of the anterior cerebral arteries by the type of extravasal compression,
5. in case of intracranial hydrohemodynamic conflict in posterior cranial fossa,
6. dysfunction of the main artery and posterior cerebral arteries by the type of angiodystonia or diastolic deficiency.

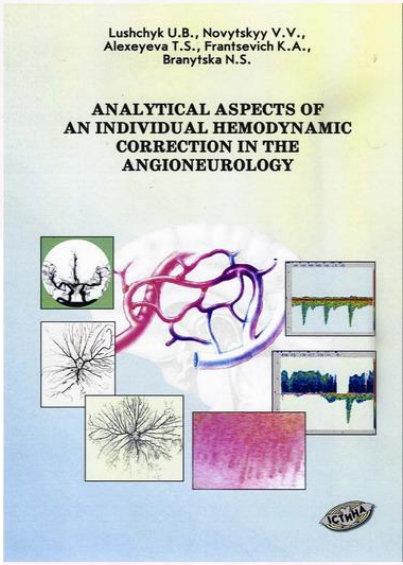


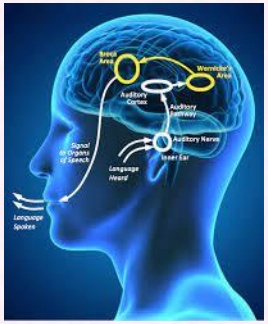
Results

All children had pathological hemodynamic patterns with delayed psycho-speech development, topographically hemodynamic and psychoneurological disorders are correlated in 87% of cases, in 13% there are syndromes of intracerebral theft.



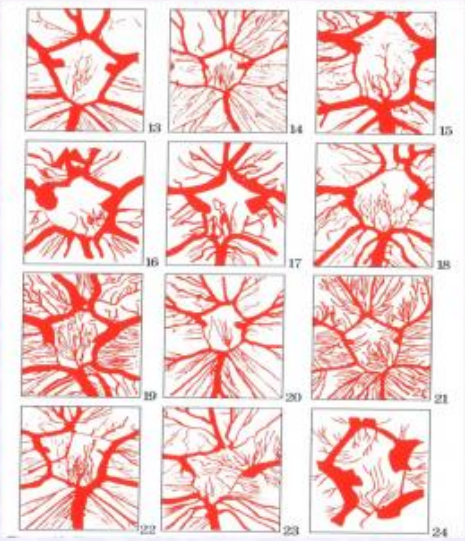


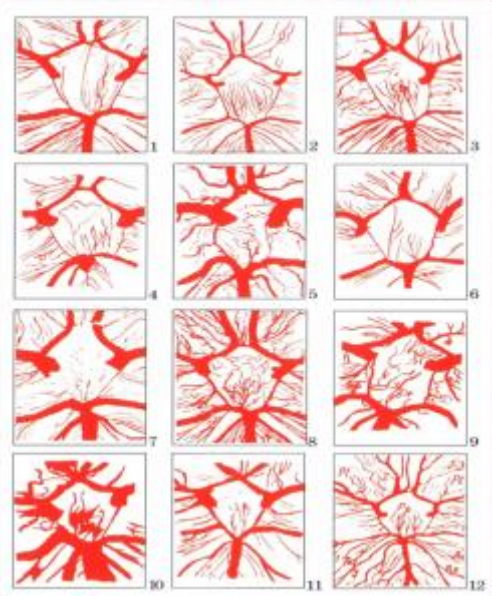




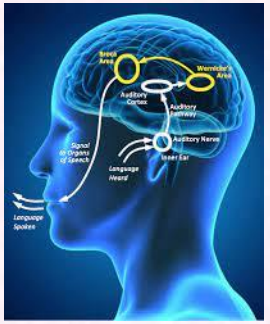
Results

Angiotherapy and correction are carried out under ultrasound monitoring of changes in hemodynamic parameters and are accompanied by gradual sanogenic transformation of cerebral angioarchitectonics, restoration of the main type of blood supply to the brain and sanogenic transformation of small-caliber and/or large-caliber types of angioarchitectonics *



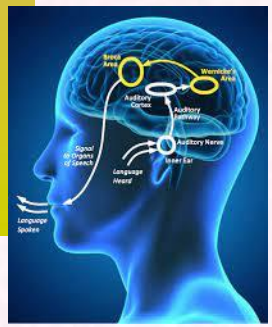


*Method of regional angioarchitectonics evaluation: State Patent of Ukraine. No. 67707A; 31.12.2003) of cerebral arteries into normal-caliber ones with restoration of hydrohemodynamic balance and intravascular blood pressure.



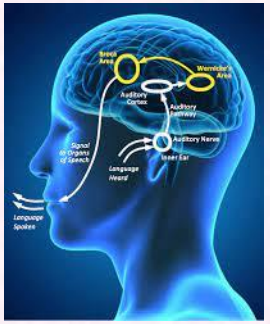
Results

Ultrasound technology is decisive in choosing an adequate, perosnalized method for angiotherapy and angiocorrection.



Conclusions

Ultrasound methodology for the study of the cerebral regional reservoir enables not only to ascertain the structural and functional pathologies of the occlusion of arteries and veins, but has become a method of evidence-based medicine in personalized hydrohemodynamic correction of the arteriovenous channel of the cerebral regional reservoir for the purpose of speech formation and adequate psychological and cognitive development in children with delayed psycho-speech development



Sincerely grateful you for your attention!

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