

of MMP-9 indicated activation of a systemic inflammatory response in case of myocardial damage.

**Conclusions.** The leading trigger mechanism of fibrogenesis processes is necrosis of cardiomyocytes, leading to the launch of biochemical intracellular signaling processes that initiate a partial change in reparative processes. It is obvious that the development of interstitial fibrogenesis plays an important role in the pathophysiology of myocardial remodeling under conditions of hypoxia and may contribute to the progression of its dysfunction.

#### THE INTERHEMISPHERIC ASYMMETRY IN GIRLS: VARIABILITY AND CONNECTIONS OF MOTOR AND VISUAL SAMPLES

*Zaichenko A. A., Fomkina O. A., Muzurova L. V., Syrova O. V.*

V. I. Razumovsky Saratov State Medical University,  
Saratov, Russia  
[oafofomkina@mail.ru](mailto:oafofomkina@mail.ru)

**Key words:** *interhemispheric asymmetry, female, motor test, visual tests*

**Aim.** Identification of variability and connections of the motor and visual tests determined by left or right hemispheres of the brain.

**Material and Methods.** 129 girls of  $18.2 \pm 0.6$  years considering themselves right-handed persons. The examinee suggested to perform tests: «an interlacing of fingers of hands», «crossing of hands» («Napoleon's pose»), «applauding», «casting leg on a leg» («a leg on a leg»), «visual test» (to look on subject through an opening, alternately closing eyes). Assessment of appeal of photos of the male and female persons made of the left and right half («preference of the photo») was carried out.

**Results and Discussion.** Noted reliable right-hand domination when performing tests «applauding», «a leg on a leg» and «vision of a subject by the right eye» whereas domination of the left hand in tests «an interlacing of fingers of hands» and «Napoleon's pose» isn't significant is noted. The test «applauding» showing weak, but reliable positive connections with other motor tests is the most informative in diagnostics of domination of the right or left extremity. In images both men, and women, girls attract the photos made of the right half of the persons reflecting «abstract logic» of the left hemisphere. At the same time in a men's image girls attract «the abstract

logic», in a female image — «emotional figurativeness» of thinking more attracts.

**Conclusions.** Motor tests, visual test and test «preference of the photo» represent independent complexes that are explained by difference of the systems which are responsible for their performance.

#### THE ANATOMICAL OVERVIEW OF A TUNNEL SYNDROME OF A PUDENDAL NEUROVASCULAR FASCICLE

*Zhandarov K. A., Laptina V. I., Dydykin S. S.*

Sechenov First Moscow State Medical University  
(Sechenov University), Moscow, Russia  
[kirill-zhandarov@mail.ru](mailto:kirill-zhandarov@mail.ru)

**Key words:** *tunnel syndrome, nerves, anatomy, overview*

**Aim.** During our study we decided to allocate a projection and topographic-anatomic features of a pudendal neurovascular fascicle from foramen infrapiriforme, to define its projection in the gluteal region in order to improve diagnostics and treatment.

**Material and Methods.** Anatomical research performed on 15 corpses. Each of them included 30 internal pudendal spinal nerve fascicle (SNF).

**Results and Discussion.** As a result of the study was defined that pudendal vessels and a nerve are defined in a small gap at the entrance of Alcock channel, formed by sacrotuberous ligament sacrospinal ligament, and ischial tuberosity. The gap is defined as the threshold of the Alcock channel in the gluteal region. We have defined the walls limiting it: the forward wall is a sacrospinal ligament, the back wall is a sacrotuberous ligament, the lower wall — a ischial tuberosity. The threshold was divided into 2 segments. The first segment — from an exit of foramen infrapiriforme to the upper edge of a sacrotuberous ligament. The second- from the upper edge of a sacrotuberous ligament. To determine a projection of apudendal SNF there was calculated an average distance from the median body line to foramen infrapiriforme. In the entrance between a sacrotuberous ligament and a sacrospinal ligament the nerve is fixed.

**Conclusions.** In all cases the epineurium of trunks of sciatic, posterior femoral and pudendal nerves was bound in the field of a sacral plexus that can possibly have the reflected character and clinical implications such as syndrome of a piriform muscle and tunnel syndrome of a sexual nerve.