

NEW WAY OF CONSERVATIVE TREATMENT OF HERNIAS LUMBAR INTERVERTEBRAL DISKS

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We have developed a new effective way of conservative treatment of hernias lumbar intervertebral disks (the patent for invention RU 2368401). The way complex also includes medicamentous blockade of painful points and electric stimulation a pulse electric current. Blockade of painful points was carried out in the field of lumbar vertebrae of a corresponding segment with hernia presence a intervertebral disk. An arrangement of electrodes for electric stimulation: the anode – a blockade venue (paravertebral), the cathode – a superficial electrode on a back surface of a shin. Characteristics of an electric current for stimulation: a current pulse, frequency of 50 Hz, a current strength 10–15 mA, duration of an electric impulse 0,2 ms. Duration of procedure of 8–10 minutes daily, on course of treatment of 10–12 procedures. Throughout four years by means of this way 372 patients with hernias lumbar intervertebral disks at the age from 22 till 59 years have been treated. At the reference to all patients detailed clinical research (MRI or CT), ultrasonic research of lumbar department of a backbone about revealing of hernias lumbar intervertebral disks was carried out. In a clinical picture at patients the painful syndrome of various degree of expressiveness, and also impellent and sensitive frustration at level of the bottom extremities prevailed. As a result of the spent treatment at the majority sick (321 – 86,3%) has been



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reached proof expressed (confirmed at the further dynamic researches) positive result. At 31 (8,3%) patients expressiveness of a positive effect was less, or the effect of treatment proceeded smaller quantity of time and it was required to spend additional courses of treatment. 20 sick (5,4%) subjectively didn't mark improvement while results of control researches testified to reduction of expressiveness hernia of intervertebral disk. Application of a new way of conservative treatment of hernias lumbar intrvertebtal disks hasn't revealed cases of deterioration of a condition sick, both clinical, and morfo-functional.

Thus, use of a new way allows to provide treatment of patients with hernias lumbar intervertebral disks. Result of this treatment is elimination of a painful syndrome, reduction of volume of a hernia of a disk, restoration radix conductivity. The new way of ultrasonic diagnostics of hernias lumbar intervertebral disks, developed by us, allows to provide objective diagnostics of hernias lumbar intervertebral disks, to establish exact localization of pathological process.

NEW WAY OF KNEE OSTEOARTROSIS TREATMENT

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The knee joint of the person is under constant loading, keeps weight of a body of the person and provides great volume of movements of a foot. Constant loading on a knee joint leads to frequent enough development osteoarthritis. Knee osteoarthritis is in the lead is in the lead on frequency of occurrence of disease among articulate artrosis. At knee osteoarthritis there are degenerate-dystrophic changes in the hyaline cartilage covering condyles femoral and tibial of bones, in meniscuses, first of all. There are various ways of knee



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osteoarthritis treatment. On the basis of sanatorium "Barnaulsky" we managed to develop the updating of a way of knee osteoarthritis treatment. At performance of this way of 50 Hz, a current strength till 7–10 mA, duration of an electric impulse 0,3 ms and medicinal

interstitial therapy electrophoresis a preparation Karpain, duration of procedure of 12–15 minutes daily, on course of treatment of 12–15 procedures carry out hypodermic introduction ozone-oxygen mixes and the subsequent electric stimulation of a place of introduction ozone-oxygen mixes an electric current frequency.

Application of this method leads to reduction and knocking over of a painful syndrome at patients with knee osteoarthritis, to reduction of inflammatory reaction of structures of a knee joint, restoration of function of a knee joint. 397 patients have been treated. The steady clinical effect of application of this way, received at treatment of patients with knee osteoarthritis joint allows to recommend this method for wide clinical application.

The complex diagnostic approach including radiological and ultrasonic researches is actively

applied to an estimation of presence and expressiveness of a pathology at level of a knee joint in sanatorium. In some cases, for specification of character of pathological process directed patients for research to treatment-and-prophylactic medical institutions of Barnaul for carrying out of a computer tomography or a magnetic resonance imaging of a knee joint. The method of ultrasonic diagnostics of a pathology of a knee joint is actively applied to control of results of treatment.

Thus, use of a complex method of knee osteoarthritis treatment allows to provide treatment of patients with knee osteoarthritis. Result of this treatment is reduction and knocking over of a painful syndrome at patients with knee osteoarthritis, reduction of inflammatory reaction of structures of a knee joint, restoration of function of a knee joint.

ZEHN-JAHRE EXTRAKORPORALE STOSSWELLENTHERAPIE (ESWT) BEI PSEUDARTHROSEN

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EINLEITUNG: Unverheilte Knochenfrakturen werden nach drei Monaten als verzögerte Knochenbruchheilungen und nach sechs Monaten als Pseudarthrosen bezeichnet. Im durchschnittlichen Patientengut in Staaten mit gut organisiertem Trauma-management resultieren diese Knochenheilungsstörungen in Häufigkeiten von z.B. 4,5% an der Klavikula, 4,3% nach Tibiaumstellungsosteotomien oder allgemein max. 7%. Operative Korrekturingriffe gelten als Therapiegoldstandard spätestens im Pseudarthrose-Stadium. In ausgewählten Fällen führen wir auch nicht-invasive Extrakorporale Stosswellentherapien durch und erwarten dadurch Knochenstoffwechselstimulationen, die denen operativer Eingriffe ähnlich sind.

MATERIAL UND METHODEN: Seit 2001 haben wir mehr als 450 ausgesuchte Knochenheilungsstörungen frühestens drei Monate posttraumatisch bzw. nach letzter Osteosynthese mittels fokussierter hochenergetischer Stosswellentherapie mit oder ohne computerassistierte Navigation ambulant behandelt. Überwiegend jene Patienten, die Arbeitsunfallopfer waren, wurden fachunfallchirurgisch nachuntersucht oder mittels Fragebogen kontrolliert.



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ERGEBNISSE: Ausreichend stabile Frakturheilungen und weitere Therapieerfolgskriterien wurden unabhängig von der Art der primären Behandlung in 80% nach zwei bis sechs Monaten festgestellt. Delayed und non-unions, atrophe und hypertrophe Formen sowie Zustände nach einfachen oder Trümmerfrakturen, Osteotomien oder Arthrodesen kleiner und großer Knochen wurden zusammengefasst, weil sie dem üblichen Spektrum entsprechen.

SCHLUSSFOLGERUNG: Die ESWT wird nur in einigen Staaten und dort auch nicht flächendeckend für die operationsersetzende Frakturbehandlung eingesetzt. Unsere retrospektiven Fallkontrollen am eigenen Patientengut weisen auf ermutigende Therapieerfolge und gänzliche fehlende Komplikationen hin und liegen im Trend jener Studien höherer Evidenzgrade, die in den ESWT-Zentren in Österreich, Taiwan oder Kolumbien publiziert worden sind. In Deutschland wird die ESWT nur ausnahmsweise von institutionellen Kostenträgern bezahlt, obwohl die Gesamtkosten sehr deutlich geringer sind als für stationäre Operationen