



АНА МЕН БАЛА ҰЛТТЫҚ ҒЫЛЫМИ ОРТАЛЫҒЫ  
Ұлттық медициналық холдинг

НАЦИОНАЛЬНЫЙ НАУЧНЫЙ ЦЕНТР МАТЕРИНСТВА И ДЕТСТВА  
Национальный медицинский холдинг

NATIONAL RESEARCH CENTER FOR MATERNAL AND CHILD HEALTH  
National medical holding



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## National Research Center for Maternal and Child Health is a:

- Highly specialized medical care for pregnant women and gynecologic patients
- Highly specialized medical care for children of age up to 18 years old
- Scientific-research activity, continuous medical education
- Newest medical technologies and treatment methods on high level of quality taking into account patients' interests
- Besides guaranteed level of free medical care NRCMCH provides private medical services, work with customers of insurance companies

The bed capacity of NRCMCH is 500 beds. And it has all the opportunities to carry out large scientific forums, conferences, simposiums, master-classes with participation of leading national and international experts.

NRCMCH is one of the medical institutions in CIS, which has got JCI (Joint Commission International) accreditation. JCI accreditation is a «golden standard» in sphere of medical services. It is a pledge of trust of medical tourists – patients travelling out of their home country in order to get medical services of high quality.



National Research Center for Maternal and Child Health (NRCMCH) has been found on basis of governmental decree № 946 of the Republic of Kazakhstan dated 29th September in 2006. NRCMCH has got first patients on 20th August of 2007. Our hospital has entered into hospital group named National Medical Holding in 2008. Holding owns 6 innovative healthcare facilities located in medical cluster of Astana city. Main goal of the Holding is an establishment of Hospital of Future competitive on international level, which will provide wide spectrum of medical services for citizens of Kazakhstan and foreign patients on basis of cutting-edge medical technologies, contemporary hospital management, and international standards of quality and patient safety.

NRCMCH has set a goal to achieve a mission – «Improving medical services for women and children we facilitate healthy future». The mission reflects supreme care of women's and children's health providing highly specialized medical care.

Our hospital aspires to conquer leading positions in sphere of mother and child health care by implementing international standards of hospital management and innovative medical technologies, formation of efficient system of medical services with increased access and economic profitability, creation of the best educational and research center for

specialists of Kazakhstan, Central Asia and CIS.

The hospital provides specialized and highly specialized medical care for children from neonatal age to 18 years old with congenital malformations, diseases of nervous, renal, bone and endocrine systems, gastrointestinal tract and others; pregnant women and gynecologic patients with acute complications, including pregnancy complications, miscarriage, multiple pregnancy, after IVF (in-vitro fertilization), and IVF procedure; and care of premature infants.



One of the main objectives of the NRCMCH is an implementation of patient-oriented principle of medical care, that requires highly ethical standards and training of motivated professionals, which are able to work on principles of evidence-based medicine.

Within the 6-years period there were more than 60 master-classes led by invited foreign specialists in such clinical fields as hematology diseases «Transplantation of hemopoetic stem cells to children

with acute myeloblastic leukemia», N.Bondarenko, N.Stancheva, Institute for Hematology and Transplantation, Saint-Petersburg (Russia); gynecologic diseases «Extraperitoneal cesarean section», W.Scholl, Medical University of Graz, Graz (Austria), «Complex therapy of endometrial and cervical cancer», Koeller, Mamitz, Sharite Hospital, Berlin (Germany), children's orthopedics and traumatology «Pediatric traumatology and orthopedics», O.Sokolovskiy, Republican Centre for Orthopedics, Minsk (Belorussia), pediatric surgery "Kidney transplantation in children", S.Bayko, Minsk (Belorussia), "Urine bladder reconstruction in extrophy", I.Mushtak, Great Ormond Street Hospital, London (UK) and others.



NRCMCH has found substantial partnerships with the best medical centers and clinics such as: International Center of Medical Cooperation, Tokyo (Japan), Severance Hospital, Seoul (South Korea), Medical University of Graz, Graz (Austria), Sharite Hospital, Berlin (Germany), Scientific-Research

Institute for Oncology named after N.Petrov, Saint-Petersburg (Russia), Anam Hospital of Seoul University, Seoul (South Korea), Seoul University Hospital, Seoul (South Korea), Shemer Medical Center, Haifa (Israel), Freiburg University Clinic, Freiburg (Germany), Fortis Healthcare Ltd Hospitals, Deli (India), International Center for Endoscopic Surgery, Clermont-Ferrand (France), Great Ormond Street Hospital, London (UK), Southampton University, Cambridge University Hospital, Southampton (UK), University of Pittsburg Medical Center, Pittsburg (USA).

NRCMCH implemented more than 65 innovation technologies, that further are being implemented in the regions of the Republic of Kazakhstan.



### Our main milestones:

- 2008 – has become a part of National Medical Holding
- 2009-2012 - agreement for hospital administration with international company Vamed (Austria)
- April 2011 – WHO & EU recognition for contribution into women's and children's health promotion in Kazakhstan and successful implementation of WHO strategy «Effective perinatal technologies»
- March 2012 - JCI accreditation
- April and November 2012 - first in Kazakhstan bone marrow transplantation and kidney transplantation in children
- December 2012 - 2nd place in ranking of scientific medical organizations of the Republic of Kazakhstan done by Ministry of Education and Science
- April 2013 - 4th Annual Award "Pharmaceutical Constellation-2012" in nomination "Breakthrough of the year" for the first bone marrow transplantation in children

### Our priorities:

- Provision of comfort and individual approach in treatment
- Delicate care and patient safety in compliance with international standards
- Transfer of technologies and knowledge into healthcare system of the Republic of Kazakhstan
- Scientific-innovative studies in pediatrics and obstetrics-gynecology
- Realization of principles of WHO program «Safe Motherhood»

## Range of outpatient and inpatient health care services in the field of pediatrics, pediatric surgery, obstetrics and gynecology, reproductive health of men and women

- Pathology of pregnancy
- In vitro fertilization with assisted reproductive technologies
- Uterine artery embolization to preserve the body of woman
- Prenatal and neonatal care
- Individual delivery
- Complex program from treatment of fertility to follow-up of infant's first year of life
- Special care nursery of low-weight preterm babies
- Surgery of newborns
- General pediatric surgery
- Pediatric endocrinology
- Pediatric hematocology (bone marrow transplant, high-dose of chemotherapy, residual disease)
- Pediatric oncology
- Pediatric urology
- Pediatric rheumatology
- Pediatric orthopedics
- Pediatric vertebrology
- Neurology of early age (epilepsy, leukodystrophy, neuromuscular pathology, cognitive deficit)
- Reanimation and intensive care for adults, children and preterm infants
- Complex diagnostics (laboratory, radiology, ultrasound and functional)

### Obstetrics and gynecology department

For prospective mothers we suggest programs of training for forthcoming pregnancy, pregnancy follow-up, consultations of other specialists and programs for

preparation to delivery. The whole scope of treatment services in gynecology, that is aimed at preservation of woman's health.

#### The department provides examination and treatment of:

- Disorders leading to infertility
- Inflammatory diseases of genital organs
- Tumors of uterus and ovaries
- Disorders of menstrual cycle
- Prolapsus and proctopectosia of genital organs
- Urinary incontinence
- Malformations in development of genital organs

#### The innovative methods of diagnosis and treatment:

- Method of organ-saving uterine artery embolization in hystermioma, placenta previa and fused placenta
- Supravaginal amputation and hysterectomy by endoscopic access
- Method of laparotomic and laparoscopic sacrovaginopexy
- Method of sacrospinal colpexy in genital prolapse of genital organs in combination with connective tissue dysplasia
- TVT-O technique in urinary incontinence in Prolift in prolapse of genital organs
- Suturing the uterus by B-Lynch to stop hypotonic hemorrhages in the early postoperative and postpartum period (for preserving the generative function of women)
- Cardiomonitoring of fetal condition, cordocentesis, chorion biopsy, determination of blood group and Rh-factor of fetus in
- Rh-conflict pregnancy



In vitro fertilization unit (IVF) is struggling with infertility through examination of woman and man in order to find causes lead to infertility. In specially equipped operational room the cultivation of maternal cell, fertilization and growth of egg cell is conducted.

### Complex examinations of:

- Married couple and donors with help of modern equipment, preparation for pregnancy
- All types of laboratory diagnostics (hormones, infections, compatibility, oncologic markers)
- Assessment of ovarian reserve
- Ultrasound, Doppler, real-time 3-D image (transvaginal and abdominal sensors)
- Genetic and prenatal screening, invasive prenatal diagnostics (chorion biopsy, cordocentesis, amniocentesis)
- Computer radiological and ultrasonic investigation of uterine tubes patency
- Colposcopy, treatment of cervix (chemical treatment, diathermo-coagulation, argon plasma coagulation)
- Hysteroscopy, endometrial biopsy, diagnostic endometrectomy

### Treatment of:

- Obstruction and absence of uterine tubes, hystermioma, male sterility, immunologic incompatibility of spouses
- Non-surgical treatment of ovary cysts, hydrosalpinx, commissural process in abdominal cavity
- Treatment of different endocrine disorders
- Solution of problems of climacterical period
- Disorders of menstrual cycle
- Treatment of chronic inflammatory diseases of small pelvis organs, including method of regional antibiotic therapy
- Stimulation of ovulation
- Preparation and conduction of IVF, ICSI (fertilization with single spermatozoon)
- Donor programs (selection of donor sperm, egg cells, embryos)
- Cryoconservation and storage of gametes and embryos
- Surrogate motherhood

### Uroandrological help:

- Diagnostics and treatment of chronic prostatitis and infections; urethra smear
- Spermogram, computer processing of morphogram and kinesiogram, immunologic tests, prostatic fluid analysis
- Correction of spermatogenesis disorders
- Preparation for IVF, artificial insemination
- Taking a swab of the urethra
- PESA, TESA (non-surgical and surgical retrieval of sperm from testicle)

Delivery block has excellently equipped rooms for individual deliveries. Family members can stay near woman and support her during delivery. Delivery is managed by physician and individual midwife for each woman in childbirth. Delivery rooms are equipped with Swedish wall bars, ball, mat for a patient, beds-transformers, tables for newborns with warming, incubators. During delivery stay in warm bath is used.

In the obstetrics unit 2 (rooming-in of mother and child) are allowed to visit family members, their support and participation in the care of the mother and newborn. Experienced midwives and nurses to help educate young mothers of breast milk feeding and care of the newborn.

### Department of Pediatrics

At the present time Center admits the children with various pathologies from all regions of Kazakhstan. A team of experienced and highly skilled professionals every day faces with different diseases.

In the Unit of somatic is conducting diagnostics and treats diseases of the gastrointestinal tract, endocrine system, respiratory diseases, allergies, obesity and disorders of sexual development, the development of medical care in an orphan (rare) diseases.

In the Unit of rheumatology provide highly skilled help children with rheumatic diseases, including the most severe connective tissue diseases and chronic diseases of the joints, using modern methods of diagnosis and effective means of therapy, including genetic engineering drugs.

The Unit of neurology of early age is conducting care

Neonatology unit uses modern technologies to help premature babies to grow up healthy. Neonatologists have latest generation of equipment for treatment that helps in management of small babies with weight less than one kilogram - to replace those functions in prematurely born children that were not yet matured, also made every effort to reduce the stress on the family of premature birth and give him a healthy future.

The Unit of anesthesia, reanimation and intensive care of newborns admits babies, requiring special attention, in critical condition, with extremely and very low birth weight.



to young children with various neurological diseases: epilepsy, movement disorders, delayed neuropsychological development, hereditary neuromuscular syndromes and metabolic disorders. Also conducts long-term monitoring of brain functions (telemetry), the method of evaluation of generalized movements follow-up of children up to 3 years with the assessment of prognosis neuro - psychological

### **Pediatric surgery department**

The specialists of vertebrology and orthopedics unit provide conservative and surgical treatment of children and adolescences with diseases and trauma of musculoskeletal system. Medical and diagnostic arthroscopy of large joints, palliative operations in cerebral spastic infantile paralysis, correction of congenital scoliosis, hip dislocation, pathologies of chest and spine development are provided.

One of the unique units is a newborn's surgery, where the necessary surgical care is provided to a newborn with malformations in several hours after birth.

In pediatric surgery unit such unique interventions as thoroscopic plasty of diaphragm, laparoscopic and thoroscopic echinococcectomy, laparoscopic herniorrhaphy, video assisted sigmoidostomy, the "ideal" echinococcectomy are performed. At the present time, the unit aims at development of minimally invasive techniques, new methods of endovideosurgical operations are being implemented: laparoscopic excision of choledochal cyst, thoroscopic plasty of esophageal atresia, laparoscopic correction of Hirschsprung's disease and colon atresia, thoroscopic removal of chest and

### **Policlinic**

One of the strategic objectives of the Center is the development of medical tourism. Policlinic is actively involved in this issue. Policlinic provides private medical services, constantly improving quality and expanding the range of services, both for citizens of the Republic of Kazakhstan, as well as for foreigners. On Saturdays there is a doctor on call.

The department provides following services:

- Pediatrician
- Urologist
- Dermatologist
- Otolaryngologist
- Therapist
- Ophthalmologist
- Stomatologist
- Allergist
- Obstetric-gynecologist
- Surgeon
- Neurologist
- Endocrinologist
- Mammologist

### **Paraclinical department**

The Center offers a wide range of laboratory and diagnostic services and performs widespread as well as unique examinations with the help of the latest technologies.

Medical tests of all kinds: general clinical, biochemical, hormonal and immunological investigations, tumor markers, PCR diagnosis, determination of fetal Rh-factor by analysis of maternal blood in Rh-conflict pregnancy - it is an incomplete list of our services.

On the basis of the of ultrasound and functional diagnostics the specialists perform investigations of the cardiovascular system in pregnant women, gynecological patients, newborns and children of all ages by

development.

Pediatric oncology and hemato-oncology units are conducting diagnostics and treatment of acute and chronic leukemia, anemia (aplastic, hemolytic-deficient), non-Hodgkin's lymphoma, histiocytosis, hemorrhagic diathesis (trombotsitopicheskaya idiopathic purpura, hemophilia, trombotsitopaty, von Willebrand disease, etc.) based on the European standards.

mediastinum tumors, laparoscopic correction of gastroesophageal reflux.

Uronephrology unit provides children of different age groups diagnostics and treatment of acute and chronic diseases in exacerbation stage of urinary system organs: pyelonephritis, glomerulonephritis, nephrotic syndrome of different etiologies, kidney stones, varicose veins of the spermatic cord and testis, cystic kidney disease, etc.

Dialysis unit is the only one unit in Kazakhstan that provides services of peritoneal dialysis for newborns and children of early age. In addition, the other types of replacement therapy, such as ultrafiltration, hemodiafiltration, plasmapheresis, are provided here.

The pediatric anesthesiology, intensive care and neonatal surgery unit has everything you need for intensive monitoring and treatment of the child: a qualified medical staff, monitor surveillance, intensive care incubators, ventilators, laboratory equipment, mobile x-ray and ultrasonic devices. Sector specialists provide neonatal surgery surgical care for newborn with malformations after a few hours after the baby's born.



electrocardiography, with the use of functional load tests (ECG bicycle ergometry). Absolutely harmless and painless methods of investigation, that do not have any contraindications and age restrictions, are offered for the patients to choose.

- Echocardiography with color scans of the heart's structure and blood flow
- Electroencephalography (EEG)
- EMG (electromyography)
- Cardiotocography of fetus
- Doppler sonography
- 3D echography of fetus -allows

Medical Genetics Laboratory. The main direction of scientific activity of the department is to improve and develop new highly methods of ultrasound diagnosis of congenital and hereditary diseases, intrauterine growth retardation.

**Widely used methods:**

- Risk assessment of congenital malformations in the fetus before and during pregnancy
- Prenatal diagnosis of congenital and hereditary diseases
- Invasive procedures: chorion biopsy / placentas, cordocentesis
- Survey of Families for carrier and a predisposition to congenital and hereditary diseases
- Molecular and cytogenetic laboratory diagnosis

**Specialists of Radiology unit provide high- technology methods of radiology diagnosis, including:**

- X-ray, CT of all organs and systems with the possibility of vascular imaging with ultriplanar reconstruction and 3D-image
- Diagnostic and therapeutic interventions puncture under the control of computer tomography in children and adults
- MRI of children and adults, including pregnant women
- Magnetic Resonance Spectrometry
- Digital mammography
- Digital vascular angiography

**The specialists of rehabilitation and physiotherapy unit** provide a package of measures, aimed at treatment and fast recovery of the patient, including the full range of physiotherapy, manual therapy, acupuncture, massage, exercise therapy. In the Unit we provide the following types of physiotherapy:

- Galvanization
- The pulse therapy (amplipulsetherapy, diadynamicherapy (Bernard's flows), interference flows, electrical stimulation)
- Darsonvalization
- High-frequency therapy (ultra high- frequency, inductothermy)
- Magnettherapy
- Ultrasound
- Light therapy (UV, infrared radiation, bioptron)
- Lasertherapy
- Hyprosonic inhalation (steam, Thermo, drugs)
- Thermotherapy (term packages, parafango)
- Cryotherapy
- Spinal Traction (dry traction of the spine)

**Cabinet of therapeutic physical exercises provides**

- Diagnosis and treatment of the spine disease (scoliosis, low back pain, back pain)
- Rehabilitation programs (after injuries, fractures, surgery)
- Pregnant women and patients in the postpartum period
- Diseases of the genitourinary system
- Gastrointestinal tract diseases
- Neurological diseases
- Endocrinological diseases
- Hematologic diseases
- Cardiorheumatological pathologies
- Halls of therapeutic physical exercises equipped with modern exercise equipment with sensors to measure heart rate, wall bars and a variety of ammunition

Unit has a pool and massage facilities for children and adults, as well as office of complex device "Uroproktokor".

- Vaccination
- The treatment room
- Functional Study: CTG fetal
- Ultrasonic studies
- Medical books
- Medical examinations
- Vaccination against cervical cancer (stage 3 vaccinations)
- Pregnancy
- The "Baby" watching program children from 0 to 1 year
- Educational lectures for parents, "Mom School"
- Call your doctor at home



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