

Moscow City Clinical Hospital 52 (MCCH52)



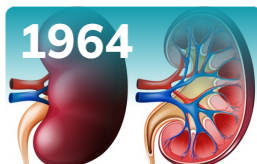
MOSCOW HEALTHCARE DEPARTMENT



History

Only 4 departments:

- Surgery
- Gynecology
- Urology
- Internal Medicine



1st Rheumatology department in the hospital



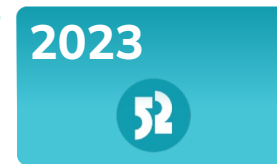
1st Peritoneal Dialysis for chronic kidney disease (CKD) in Russia

1st Renal intensive care unit (ICU) in Russia



Pioneers in **COVID-19** management

49 Departments
5 Diagnostic departments
6 Women's clinics & Maternity hospital



1st Nephrology department in Russia



1st Clinical Allergy department in Russia



Maternity hospital & Women's clinic affiliated with MCCH52



Fields of expertise:

- Nephrology
- Rheumatology
- Allergy & Immunology
- Hematology
- Obstetrics & Gynecology
- ECMO
- Pain Management

MCCH52 is one of the largest clinical hospitals in Moscow

55,000+
inpatients/year



24,000+
surgeries/year



4,500
deliveries/year

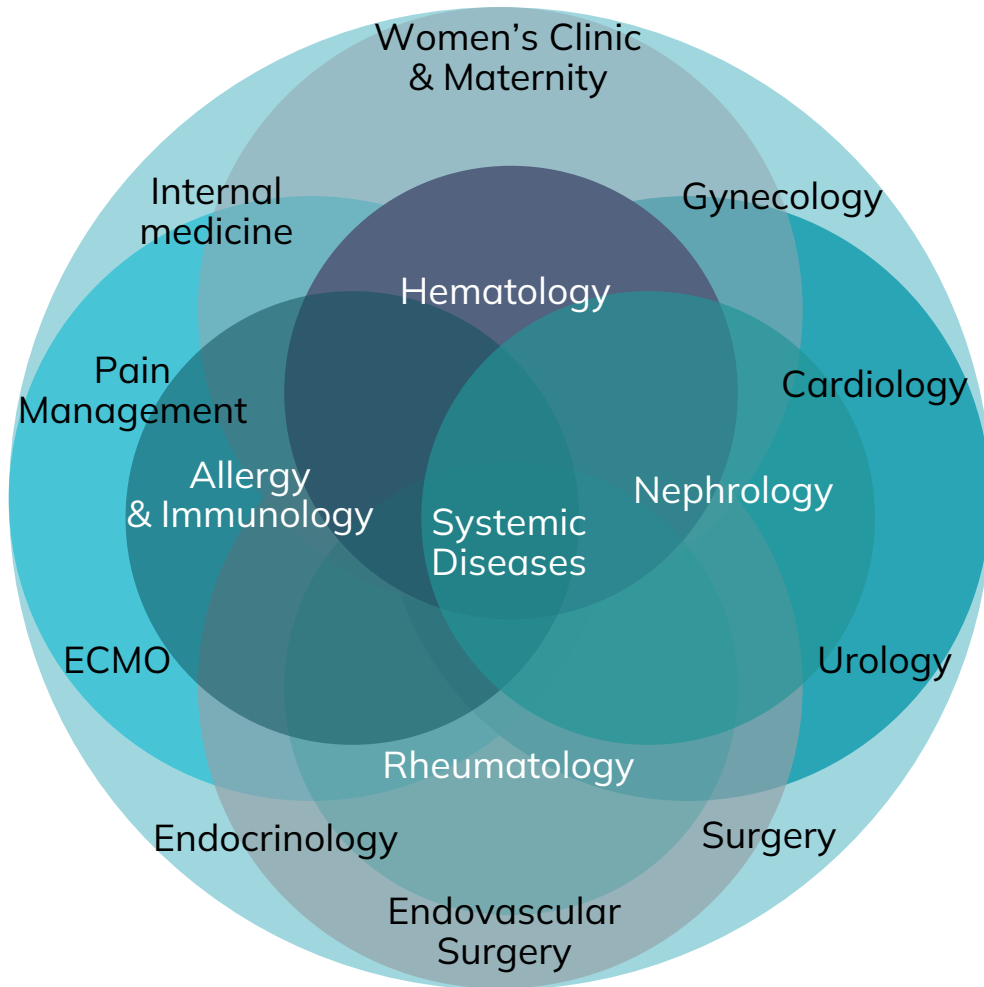


1,600+
healthcare
practitioners

6
medical universities
in close interaction

7
centers
of excellence

Multidisciplinary teams work to benefit each patient



Clinical departments and hospital services are functionally integrated into a complex multidisciplinary system:

- It allows for individual approach to each patient, even with severe combined pathology
- It ensures the most advanced treatment and continuity of medical care provided.

Center of excellence: Moscow City Scientific and Clinical Center of Nephrology and Kidney Transplant Pathology

Transplanted Kidney Pathology Inpatient dpt



- 4,100 patients/year, 110 beds
- Reference center for renal transplant dysfunction, late acute rejection, immunopathology

Consultative & Diagnostic Outpatient dpt



- 65,000 patients/year
- 4,500 patients after kidney allotransplantation
- 4,200 patients on HD from 24 city centers

Dialysis dpt



- Biggest dialysis center in Russia
- 35,000 hemodialysis sessions/year
- 220 outpatients with end-stage kidney disease
- 140 patients on peritoneal dialysis, 60% - automated peritoneal dialysis

Kidney Immunopathology dpt



- Patients with systemic renal diseases
- 2,000 kidney biopsies cases/year (Light microscopy, immunofluorescence, immunohistochemistry)
- New protocols for immunosuppressive therapy

Nephrology ICU



- 2,500 patients/year
- Extracorporeal detoxification with acute dialysis, chronic dialysis, plasmapheresis (cascade system), plasma exchange (TPE)

Televised-assisted medical services ('Telepatronage')



- Peritoneal dialysis patients and post-transplant renal patients

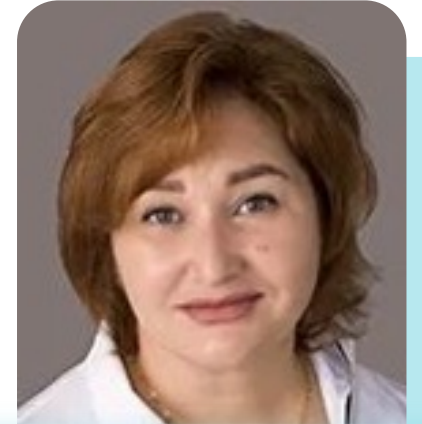
Center of excellence: Moscow City Scientific and Clinical Center of Nephrology and Kidney Transplant Pathology

Scientific and clinical interests:

- 01 Megapolis and outpatient renal services sustainability
- 02 Quality of life digitally and systematically assessed in patients on renal replacement therapy
- 03 Treatment decisions for elderly patients with CKD 5
- 04 Post-transplant care, follow-up and predictors of COVID-19 unfavorable outcomes in renal patients
- 05 ANCA-associated vasculitis treatment and induction therapy in COVID-19
- 06 COVID-19 and cardiovascular impact on post-transplant and hemodialysis patients
- 07 IgA nephropathy
- 08 Focal segmental glomerulosclerosis (FSGS)



Oleg Kotenko MD, PhD
Moscow chief nephrologist,
Head of the center



Nadiya Frolova MD, PhD
Deputy CMO in Nephrology



~ 60 scientific publications within last 5 years



Scientific grants:

- Remote monitoring of post-transplant patients on peritoneal dialysis
- Ensuring biological safety of patients and personnel during dialysis therapy



ISN, ISPD, ERA active participants

Center of excellence: Moscow City Clinical and Research Center of Immunoinflammatory Rheumatic Diseases (IIRDs)

24/7 Inpatient dpt



- 30 beds
- Diagnosis, treatment managing complications
- Antifibrotic therapy to 46 patients with ILD-IIRDs

Consultative & diagnostic outpatient dpt



- Diagnosis, treatment and follow-up
- Lab tests and instrumental investigations
- Pts' education

We treat:



- rheumatoid arthritis (RA)
- systemic connective diseases
- spondyloarthritis, microcrystalline arthropathy
- microcrystalline arthropathy
- systemic vasculitis, etc

Organization and methodology dpt



- Registries (SLE - 600 patients)
- Morbidity analysis
- Prevention methods/protocols development
- Patients' education

Short-term stay unit



- 10 beds

Center of biological therapy



- 6500 patients with RA, AS, PsA, SLE



Center of excellence: Moscow City Clinical and Research Center of Immunoinflammatory Rheumatic Diseases (IIRDs)

Scientific and clinical interests:

- 01 D2T RA - refractory RA, group analysis, pharmacogenetics
- 02 Lupus nephritis (+ biopsies)
- 03 ANCA-associated vasculitis
- 04 Management of nephrology patients with IIRDs
- 05 Interstitial lung disease (ILD) in IIRDs (antifibrotic therapy); pulmonary hypertension
- 06 Immunoinflammatory rheumatic diseases
- 07 Autoinflammatory diseases
- 08 Predictors of biological treatment effect



40,000
consultations/year



3,000
Inpatients/year

Center of excellence: Moscow City Clinical and Research Center of Immunoinflammatory Rheumatic Diseases (IIRDs)



Alyona Zagrebneva MD, PhD
Moscow chief rheumatologist
Head of the center

Business processes management, automation and optimization in rheumatology



50 scientific publications within last 5 years



Scientific grants:

- Refractory rheumatoid arthritis (D2T RA): prognostic predictors and disease burden
- Registries of patients with RA, AS, SLE, PsA receiving targeted synthetic and biological DMARDs



Participation in 6 international phase 3 and 4 clinical trials.



APLAR active participants



Center of excellence: Moscow Clinical and Scientific Center of Allergy and Immunology

1/3 of Moscow population (12 mio in total) has allergy conditions

Inpatient dpt



- 2,600 patients/year

Short-term stay unit



- 1,400 patient-days/year

Consultative & Diagnostic Outpatient dpt



- 25,000 appointments/year
- Personalized methods of treatment

We treat:



- acute and chronic urticaria
- primary immunodeficiencies in adults
- allergic rhinoconjunctivitis
- recurrent angiodema
- anaphylaxis
- bronchical asthma



Center of excellence: Moscow Clinical and Scientific Center of Allergy and Immunology

Scientific and clinical interests:

- 01 Innovations in biological treatment of severe allergic diseases
- 02 Recurrent angioedema, anaphylaxis, inducible urticaria, Stevens-Johnson syndrome, Lyell's syndrome
- 03 Allergen-specific immunotherapy
- 04 Primary immunodeficiency
- 05 Mast cell activation syndrome



Daria Fomina MD, PhD
Moscow chief allergologist,
Head of the center



130 scientific publications within last 5 years



3 scientific programs are done in frames of National Grants



International collaborations:



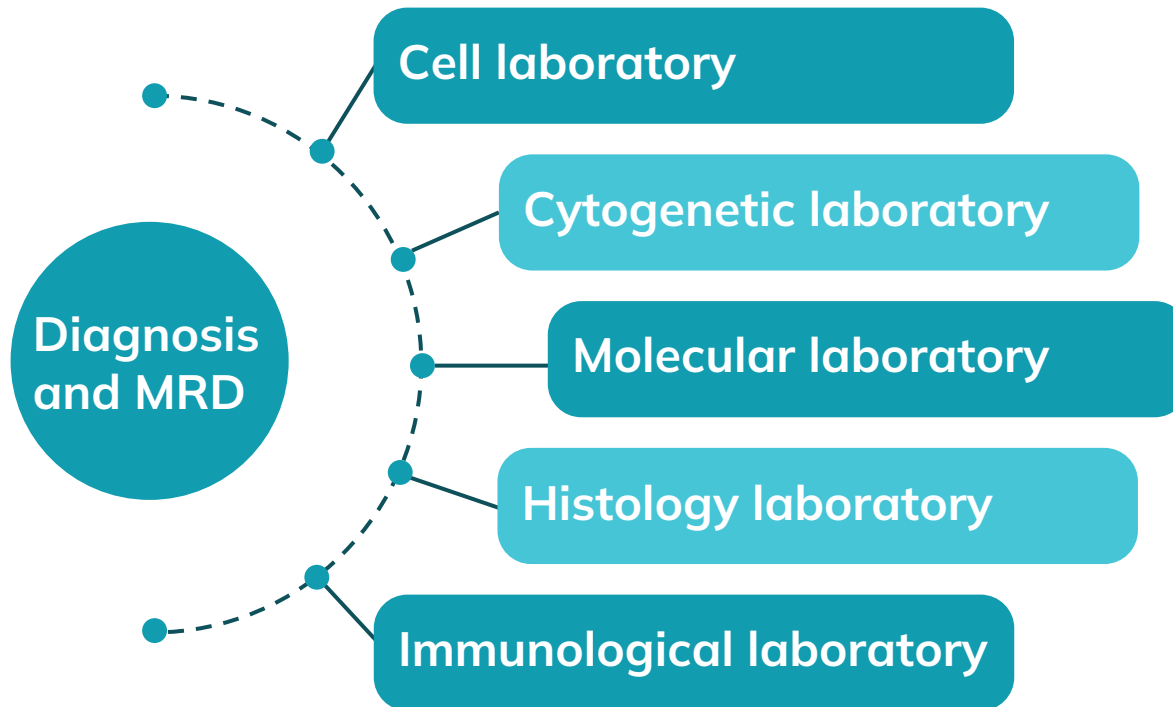
- GA2LEN Center: chronic urticaria, atopic dermatitis, angioedema
- ACARE and UCARE certificates from 1.09.22
- ADCARE certificate from 31.01.22



Center of excellence: Hematology and Bone Marrow Transplantation Center

Over 4,000 patients/year
(2,223 – inpatients, 2,137 – short-term stay)

Over 21,000 outpatient consultations/year



- **24/7 Inpatient dpt**
 - 80 beds
- **Bone Marrow Transplantation (BMT) dpt**
 - 12 beds
- **Short-term stay unit**
 - 10 beds
- **Hematology ICU**
- **Consultative & Diagnostic Outpatient dpt**
- **Stem cell harvesting unit**
- **Types of medical care**
 - High-dosage
 - Autologous transplantation
 - Pregnancy and hematologic neoplasia (Chemotherapy 2-3 trimester)
 - Transfusion therapy in coagulopathies



Center of excellence: Hematology and Bone Marrow Transplantation Center

Scientific and clinical interests:

- 01 BTK inhibitor in the first-line therapy of mantle cell lymphoma (MCL)
- 02 MRD in patients with newly diagnosed multiple myeloma, ALL, AML
- 03 Autologous hematopoietic BMT for multiple myeloma complicated by renal failure
- 04 Infectious complications after autologous hematopoietic BMT
- 05 Comparison of different treatment regimens for multiple myeloma recurrence
- 06 Optimization of first-line therapy of diffuse large B-cell lymphoma (DLBCL)
- 07 Lymphoproliferative diseases and COVID-19



Elena Misyurina MD, PhD
Head of the center



> 50 scientific publications within last 5 years



Scientific grant:

- Personification of DLBCL therapy based on the mutation profile



Registry of patients with acute myeloid leukemia



Registry of patients with AL-amyloidosis and multiple myeloma



24/7 Gynecology dpt



- 50 beds
- Average 2,1 days of hospital stay
- Over 4,000 surgeries/year
- Operative gynecology: endoscopic 85%, vaginal 9%, laparotmic 6%
- Points of interest: Pelvic organ prolapse, large fibroids, endometriosis, ovarian cysts, cervical insufficiency, large submucosal fibroids

Multidisciplinary approach to Pregnancy &:



- Nephrology
- Rheumatology
- Oncohematology

Center of prenatal diagnosis



- >9,000 procedures/year

Maternity clinic



- More than 4,500 deliveries/year
- Complicated pregnancies in patients with CKD,RA,SCD, hematologic neoplasia
- Pregnant with graft (kidney,lung)
- Complicated c/s experience: pl accreta, cesarean myomectomy

Women's clinic



- >90,000 outpatients/year
- >6,000 pregnancies/year
- Center of prenatal diagnosis

One day surgery unit



- 6 beds
- Over 1,300 surgeries/year
- Hysteroscopic and adnexal surgery



Center of excellence: Obstetrics & Gynecology Center

11,000 inpatients/year
>90,000 outpatients/year

Scientific and clinical interests:

- 01 Minimally invasive gynecological surgery
- 02 Pelvic organ prolapses treatment
- 03 Severe endometriosis, endometriosis hyperplasia in CKD patients
- 04 Innovative treatment of endometriosis, incl. biologics
- 05 Ovarian tissue preservation in patients with oncological diseases
- 06 Surgical treatment in pregnancy
- 07 Pregnancy in patients with CKD, RA, SCD, hematologic neoplasia, graft organs, TMA, BA, benign uterine/ovarian tumors
- 08 Fertility care for patients with hematologic neoplasia



Vasily Grabowsky MD, PhD
Head of the center



> 20 scientific publications within 5 years



Scientific grant:

- Registry of cancer patients planning to preserve reproductive function



APAGE active participants

Center of excellence: ECMO Center

Pulmonary and Critical Care dpt

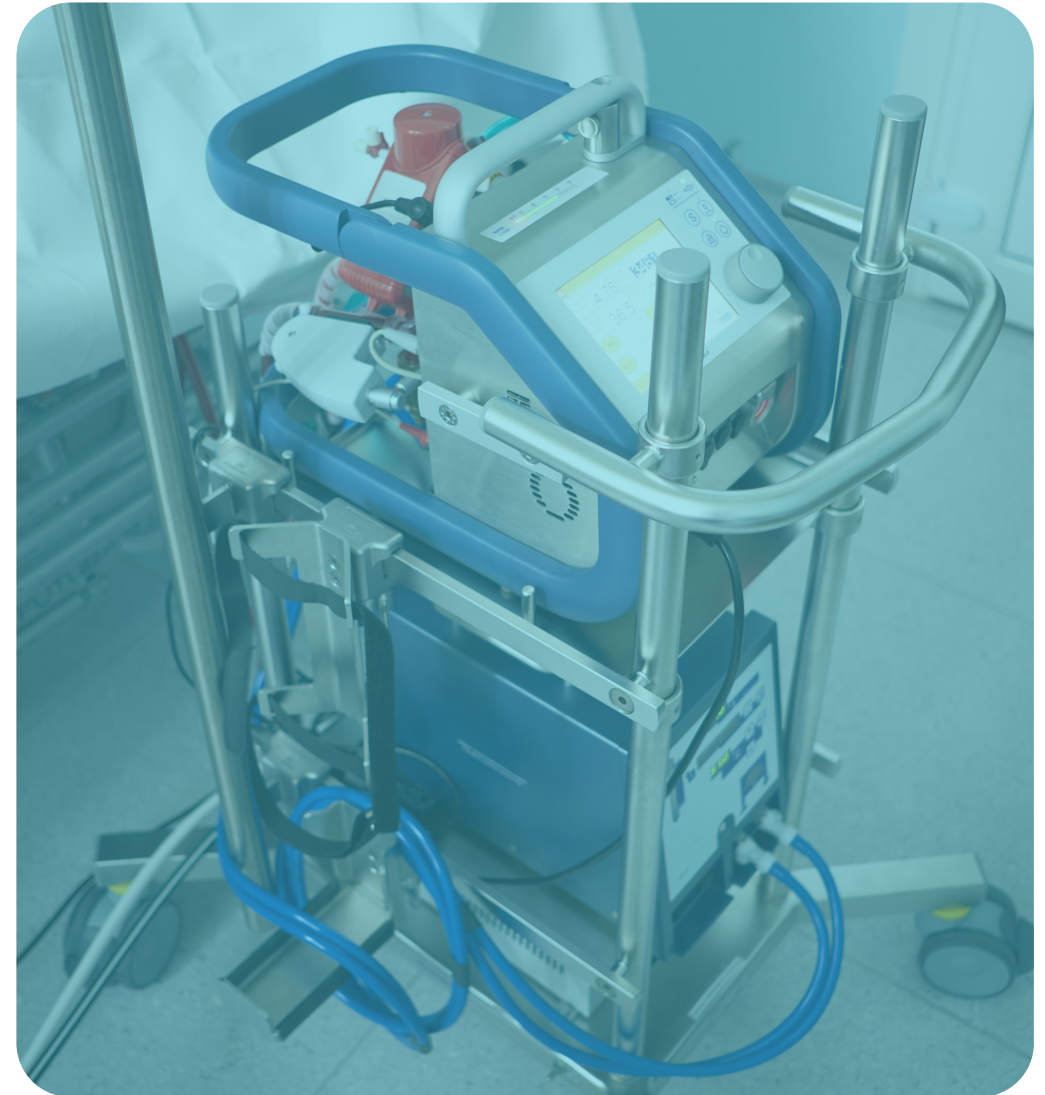


- 12 beds total
- 6 ECMO-beds
- 570 patients/year treated
- Level-III ICU
- Expertise in pulmonary disease, ARDS, COVID-19, systemic diseases

Cardiac ICU



- 16 beds
- 4 ECMO beds
- 970 pts /year treated
- All cardiovascular pathology
- Staff: intensivists and cardiologists
- Level-III ICU
- Leading cardiogenic shock center



Center of excellence: ECMO Center

Scientific and clinical interests:

- 01** Prognostication and predictive models of outcomes in patients on ECMO
- 02** Novel ECMO weaning parameters
- 03** Right heart failure in VV-ECMO.
Novel echocardiography parameters
- 04** Assessment of systemic inflammatory response to ECMO cannulation
- 05** Non-infectious systemic inflammatory response in patients with cardiogenic shock
- 06** Blood purification (cytokine adsorption) in patients with cardiogenic shock
- 07** Anti-cytokine therapy (IL-1, IL-6 blockers) in patients with cardiogenic shock



Georgy Arbolishvili MD, PhD,
Deputy CMO in Anesthesiology
and Reanimatology



~ 27 scientific publications within last 5 years



WICC active participants

Center of excellence: Pain Management Clinic

One of the 1st units in Russia

Personalized care and multidisciplinary approach to ~3000 patients/year with all types of chronic pain syndrome:

We treat



- Axial and radicular pain
- Large joint pain
- Headaches and facial pain
- Diabetic neuropathy
- Postherpetic neuralgia
- Phantom and limb pains
- Visceral and pelvic pain
- Cancer pain
- Tunnel syndromes
- Peripheral neuropathies

Methods embraced



- Therapeutic and diagnostic blocks
- Radiofrequency nerve and plexus ablations
- Neuromodulation (SCS, PNS)
- Physiotherapy of pain
- Psychotherapy
- Pharmacotherapy



Center of excellence: Pain Management Clinic

Scientific and clinical interests:

- 01 Organization of pain management system
- 02 Neuromodulation
- 03 Multidisciplinary pain management programs
- 04 Interventional pain treatment



Pavel Genov MD, PhD, ScD,
EDPM
Head of the clinic



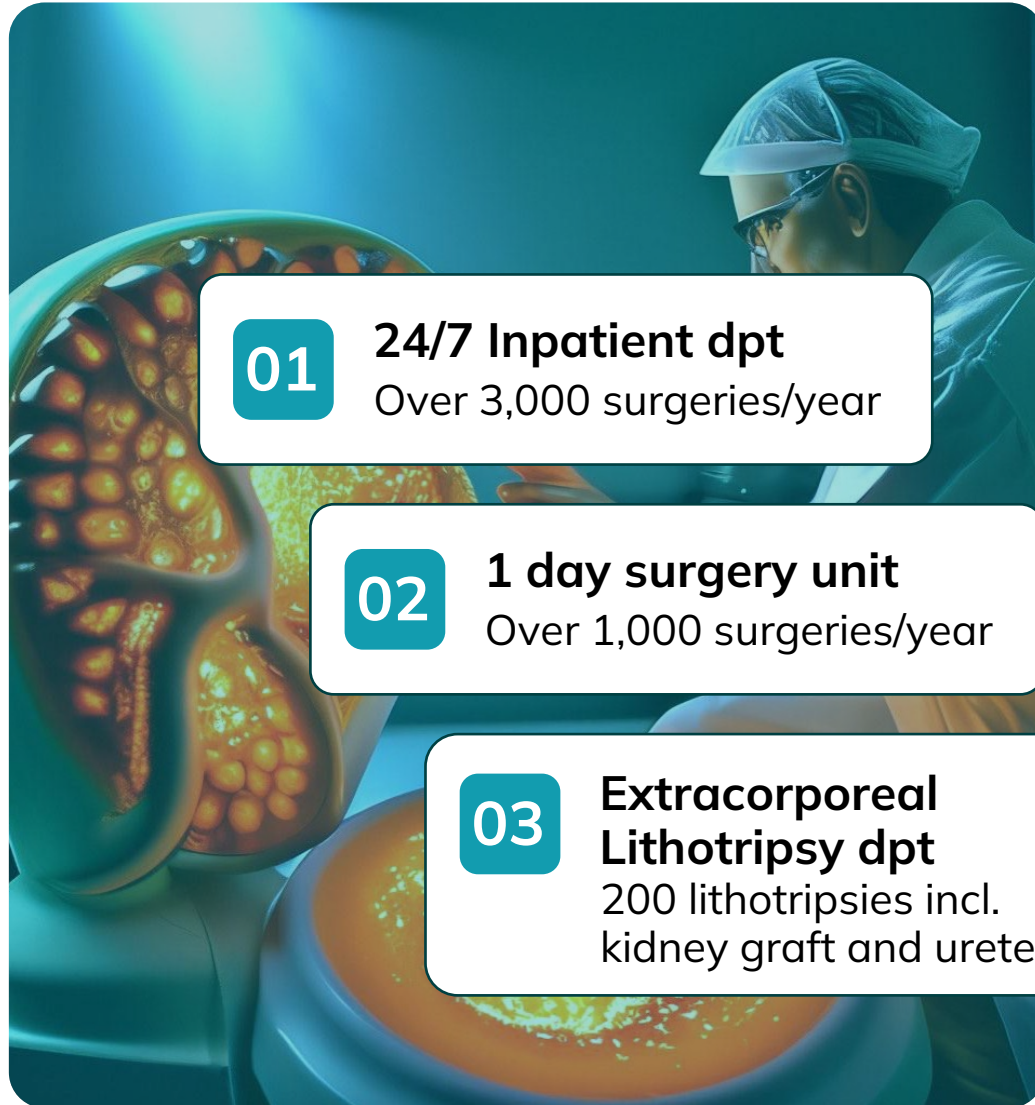
15 scientific publications within last 5 years



Pain management dpt is a founder
of Russian Interventional Pain
Management Association (IPMA)



Pain Management school – postgraduate
course provided in collaboration with IPMA



01

24/7 Inpatient dpt

Over 3,000 surgeries/year

02

1 day surgery unit

Over 1,000 surgeries/year

03

Extracorporeal Lithotripsy dpt

200 lithotripsies incl.
kidney graft and ureter

4,200 surgeries/year

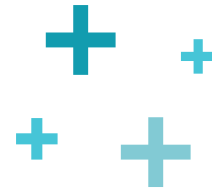
Unique methods used:



- First laparoscopic graftectomy in 2016; laparoscopic resection of kidney grafts for cancer
- Endoscopic interventions on kidney graft for ureterolithiasis: remote shock wave lithotripsy, CLT (contact lithotripsy), nephrolitholapaxy, flexible fibrouteroscopy endoscopic removal of the organ complex in patients undergoing hemodialysis (bladder cancer + purulent pyelonephritis)
- Total bilateral embolization of native kidneys in patients with polycystic kidney disease (PKD), followed by laparoscopic bilateral nephrectomy before kidney allotransplantation

Scientific and clinical interests:

- 01 Minimally invasive surgery of graft kidney
- 02 Graft kidney genetic component of cancer
- 03 Surgical tactics for patients on hemodialysis with muscle-invasive bladder cancer and purulent-destructive pyelonephritis
- 04 Total bilateral embolization of native kidneys in hemodialysis patients with complicated autosomal dominant PKD



Ruslan Trushkin MD, PhD, ScD
Head of the department



~50 scientific publications within last 5 years



Scientific grants:

- Genetic component of graft kidney cancer
- Total bilateral embolization of native kidneys in patients with complicated A-D PKD on hemodialysis



UAA active participants

General surgery



>4,000 inpatients/year
More than 80% video-assisted surgeries

Elective surgery - Over 2000 surgeries/year



Minimally invasive & laparoscopic surgery:

- Gastroesophageal reflux disease (GERD)
- Hiatal Hernia
- Diastasis of rectus abdominis
- Anterior abdominal wall hernias
- Gallstone disease
- Abdominal cavity adhesive disease
- Colorectal reconstructive surgery
- Spleen disease
- Benign breast disease (BBD)

Endocrine surgery:

- Minimally invasive/endoscopic thyroid and parathyroid surgery
- Adrenal surgeries

Bariatric surgery:

- Sleeve gastrectomy

One day surgery

Emergency surgery - Over 1,500 surgeries/year

Interventional endoscopy - Over 500 procedures/year:

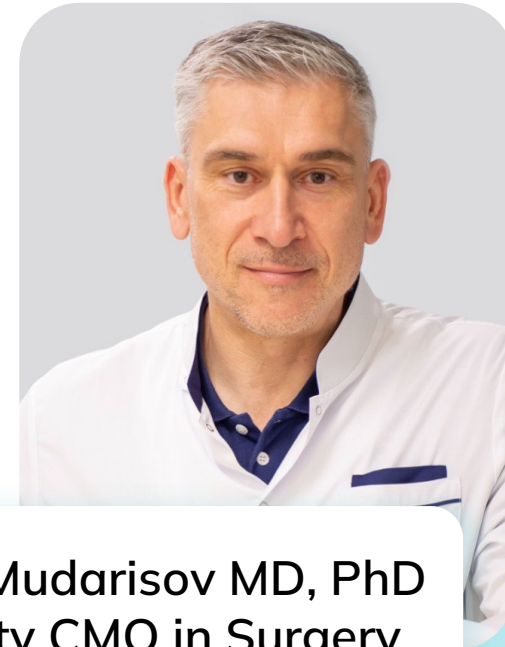
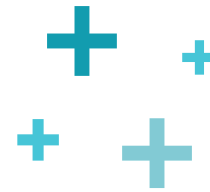


- EUS-guided cystogastrostomy
- EUS-guided choledochoduodenostomy
- Pancreatoscopy lithotripsy
- Pancreatic stenting
- Self-expandable metallic stent (SEMS) placement
- Endoscopic submucosal dissection (ESD)
- Endoscopic mucosal resection (EMR)
- Peroral endoscopic myotomy (POEM)
- Cricopharyngeal myotomy



Scientific and clinical interests:

- 01 Surgical management of patients on peritoneal dialysis
- 02 Laparoscopic hernia repair in renal transplant recipients
- 03 Interventional endosonography (EUS) in the management of hepatopancreatobiliary duct system conditions
- 04 Risk factors associated with acute pancreatitis after endoscopic transpapillary biliopancreatic interventions
- 05 Management of difficult transpapillary bile duct cannulation
- 06 Endoscopy in the management of *Clostridioides difficile* colitis



Rinat Mudarisov MD, PhD
Deputy CMO in Surgery



> 40 scientific publications within last 3 years



Join scientific grant program with rheumatology center (IIRDs)

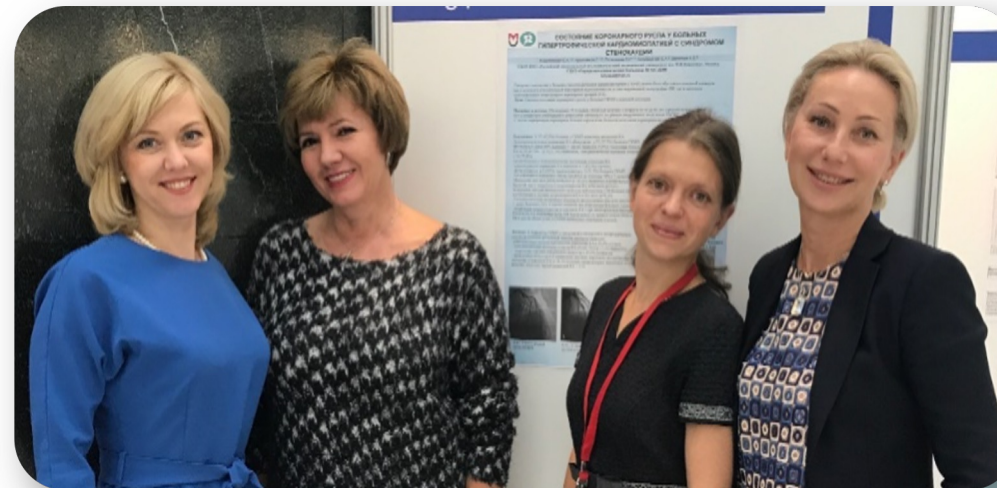
>3,550 patients/year
with cardiovascular diseases

- Coronary heart disease > 1500 patients
- Cardiomyopathy/ Pericarditis / Myocarditis > 200 patients
- Congestive heart failure > 1000 patients
- Rhythm and conduction disturbance > 850 patients

Research interests:



- Prediction models: heart failure, atrial fibrillation, sudden cardiac death
- Study of the Genesis of myocardial ischemia in patients with HCM
- Sudden cardiac death risk stratification in HCM patients by MRI with late gadolinium enhancement
- Study of the Salt profile in patients with HCM (new direction)
- Results of catheter ablation in patients with different HF phenotype
- Major interest in prediction models of HF, AF and SD in patients with CVD (Russia, China)



> 40 scientific publications within last 3 years

Clinical interests:



- Hypertrophic cardiomyopathy (HCM): a 15-year long follow-up of 407 patients with HCM
- AF in patients with different HF phenotype

Cardiovascular Interventions and Angiography

Over 1,300 percutaneous interventions (PCI)/year
in comorbid patients (cardiogenic shock, ECMO)

Expertise in:



- Balloon angioplasty on venous structures in hemodialysis patients
- PCI in ESKD and hemodialysis patients with multivessel lesions and chronic occlusions
- Balloon angioplasty and stenting in transplant renal artery stenosis
- Endovascular embolization and polycystic kidney disease
- Anatomic snuffbox and radial artery access
- Permanent His- and left bundle pacing
- Pacemaker implantation alternative: cardiac neuroablation for neurocardiogenic syncope and bradyarrhythmias
- Cryoballoon ablation of AF, posterior wall and left atrial and mitral isthmus appendage in patients with concomitant diseases
- Arterial bleeding managements in emergency patients



Cardiovascular Interventions and Angiography

Scientific and clinical interests:

- 01 PCI in multivessel coronary artery disease
- 02 Recanalization of chronic coronary artery occlusions
- 03 Renal artery embolization as a preoperative choice in patients with polycystic kidney disease
- 04 Balloon angioplasty for hemodialysis fistulas: treatment choice evaluation
- 05 Long-term results evaluation: artery stenting in transplanted kidneys
- 06 Cryoballoon ablation of atrial fibrillation in patients with heart failure
- 07 ECG-assisted non-invasive electranatomic mapping with interventricular septum (IVS) stimulation
- 08 Cardiac neuroablation in bradyarrhythmias



Denis Fettser MD, PhD
FSCAI, FACC
Head of the department



15 scientific publications within last 5 years

Endocrinology

> 2,000 inpatients/year

Specialization:

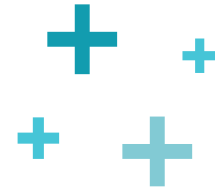


- Diabetes mellitus (DM) (continuous glucose monitoring, insulin pump therapy)
- DM + CKD, including secondary hyperparathyroidism
- Thyroid and adrenal gland diseases (surgical treatment - in collaboration with Surgery Dept.)

Scientific and clinical interests:



- Prognostic risk factors for adverse outcomes in COVID-19 patients with type 2 DM
- Analysis of glycemic variability in CKD patients on renal replacement therapy
- arGPP1 therapy effect on COVID-19 outcomes in patients with type 2 DM
- Carbohydrate metabolism disorders in patients with ESKD
- Carbohydrate metabolism disorders and development of heart failure with preserved ejection fraction



Prof. Tatiana Markova MD,
PhD, ScD
Head of the department



40 scientific publications within last 3 years



ADA, IDF active participants



Leading expertise in clinical research and management of heart failure and CKD in patients with type 2 DM (prospective observational multicenter study)



Participation in 2 international phase 3 clinical trials

Otorhinolaryngology

2,500-2,700 surgeries/year

Specialization in:



- Ear microsurgery (> 50%) and other hearing-improving and sanitizing surgeries on the middle ear.
- Nasal cavity and paranasal sinuses and larynx incl. removal of tumors and various types of laryngoplasty.

Scientific and clinical interests:



- Novel method of tympanoplasty
- Retrospective study of type 3 tympanoplasty with prostheses and materials
- Increasing voice pitch by endoscopic glotoplasty



Pavel Azarov MD, PhD
Head of the department



ELS active participants

Ophthalmology

> 6,000 surgeries/year

24/7 Inpatient dpt & One day surgery unit

Specialization in:



- Cataract and glaucoma surgeries
- Eye appendage surgery
- Laser therapy and intravitreal drug administration in retinal disease
- Vitreoretinal surgery (epiretinal fibrosis, retinal detachment, macular tears, proliferative diabetic retinopathy)
- Eye disease management in comorbid patients (endocrinological, autoimmune, hematological, nephrological diseases)



Yulia Kopchenova MD,
Head of the department



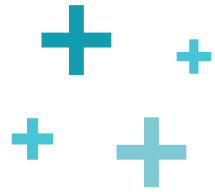
Scientific and clinical interests:



- Glaucoma drainage surgery
- Comorbid patient diagnostics & management

MCCH52 Educational Center

- ✓ Conferences
- ✓ Webinars
- ✓ Internship
- ✓ Experience exchange
- ✓ Fellowship
- ✓ Residency
- ✓ Round tables
- ✓ Mentorship and coaching schools



Training and residency at MCCH52

- Allergy and Immunology
- Rheumatology
- Nephrology
- Hematology
- Obstetrics and Gynecology
- Urology
- Anesthesiology and Resuscitation
- ENT

Trainings are available in all hospital-based specialties by request



Cooperation with Russian Leading Educational and Research Institutions



A.I. Yevdokimov Moscow State
University of Medicine and Dentistry



RUDN University
Department of Hospital Internal
Medicine Department of Anesthesiology
and Intensive Care



Russian Medical Academy
of Continuous Professional Education



МОСКОВСКИЙ
НАУЧНО-ИССЛЕДОВАТЕЛЬСКИЙ
ИНСТИТУТ ЭПИДЕМИОЛОГИИ И
МИКРОБИОЛОГИИ
ИМ. Г. ГАБРИЧЕВСКОГО

Gabrichevsky Moscow
Research Institute of Epidemiology
and Microbiology



Pirogov Russian National
Research Medical University



Shumakov National Medical Research
Center of Transplantology
and Artificial Organs



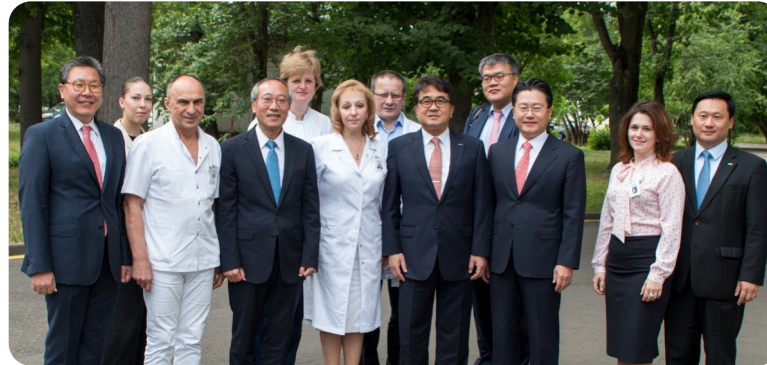
I.M. Sechenov First Moscow
State Medical University



Lomonosov Moscow State University

MCCH52 is one of the largest clinical hospitals in Moscow

EDUCATIONAL
AND TRAINING
PROGRAMS



TELEMEDICINE



SCIENTIFIC
COLLABORATION



CONSULTING

CLINICAL STUDIES
AND TRIALS

MEDICAL TOURISM

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