



2 0 1 9 A N N U A L R E P O R T



Nemocnice
Na Bulovce

The commencement of the gradual development of the Na Bulovce Hospital complex dates back to 1925.

The complex is situated on the hills which are the continuation of the Bílá Skála (White Rock) in Prague 8 – Libeň, near where the Bulovka homestead used to stand.

Today, the hospital is an exceptional facility with exceptional people working there – and thanks to them, it is one of the top health care facilities in the Czech Republic.

1925

the year the construction of the
Na Bulovce Hospital complex commenced

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25

995

Na Bulovce University Hospital's bed capacity

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14,24

Number of surgeries performed at NBH in 2019

CHIEF EXECUTIVE OFFICER'S PROLOGUE

For the Na Bulovce Hospital, 2019 was more than anything else a year of major changes. In the area of preventative therapeutic care, considerable enhancements took place in the Comprehensive Oncology Centre. After a long struggle with the contractor, the Hospital managed to put into operation at the Institute of Radiation Oncology two new linear accelerators, and won the battle for a large compensation for the long delays in the project. Considerable modernisation and enhancements from the point of view of availability of instruments underwent also Ono-Gynaecology and Ono-Urology. And last but not the least, the Hospital took over from IKEM, for the Institute of Radiation Oncology, a three-Tesla magnetic resonance instrument. The instrument will be installed in 2020. Until now, the Na Bulovce Hospital did not possess such instrument.

As part of the Maternity Hospital enhancement project, opened was the first Centre of Natal Assistance in the Czech Republic, and commenced were works to reconstruct new natal suites, which were subsequently opened in 2020. The Hospital attracted considerable interest from mothers-to-be which wished to give birth at the Centre for Natal Assistance, and the Na Bulovce Hospital has become the fastest growing maternity hospital in Prague.

In 2019, the Na Bulovce Hospital successfully renewed its accreditation awarded to it by the United Accreditation Committee in the area of quality and safety, thus retaining its status of an accredited facility.

Major changes took place also at the Clinic of Infectious, Parasitic and Tropical Diseases. The Hospital has been granted by its founder the status of a highly specialised centre, unique of its kind in the Czech Republic. Following the acquisition of this status, other investment projects were approved for the Clinic. The upgrade in

the Clinic's status constituted a major component in the Hospital's gradual economic recovery. An agreement was reached in 2019 to allocate in the 2020 Cost Compensation Decree additional funds for this type of centres. In addition to these new funds, the Hospital also managed to negotiate significantly better financial terms with Všeobecná zdravotní pojišťovna.

In the area of economy, the major success, besides these increases in the Hospital's revenues, was the conclusion of negotiations which lasted one year, concerning the restructuring of the Hospital's debts which it historically has been carrying. The Na Bulovce Hospital's creditors ceded the debts to banks in two waves of a total value close to one billion crowns, with the repayment schedule spread over eight years. This step gave the Hospital the required breathing space and allowed it to deal with other issues necessary for improving its overall condition. Last but not the least, audits of human resources were conducted in the Hospital, which were necessary to ensure that the Hospital does not spend funds in this area, which constitutes more than half of its total expenses, ineffectively.

In the area of operation, the Hospital took two significant steps and successfully concluded two extensive and complicated projects. The first one concerned the insourcing of the Hospital cleaning services which are now carried out in-house. These services were for more than ten years rendered by external firms. The insourcing of these services has resulted in a radical improvement of their quality, higher reliability and cost saving. The other extensive project was the takeover of the catering operation. The Na Bulovce Hospital has the obligation to provide catering services also to the Bohnice Psychiatric Hospital. As part of their horizontal cooperation, these facilities now newly prepare meals together, which has been significantly reflected in increased quality of the meals.

Although 2019 was for the Hospital still a year of losses, it can be unequivocally assessed as positive, since many positive changes were started which will lead towards growth, stability and improved functioning of the Hospital as a whole.

Mgr. Jan Kvaček, Chief Executive Officer of the Na Bulovce Hospital

DEPUTY CHIEF EXECUTIVE OFFICER'S PROLOGUE

By its capacity, the Na Bulovce Hospital is one of the largest medical facilities of its kind in the Czech Republic. It provides diagnostic and therapeutical care mainly to patients from Prague, but because of its several highly specialised departments, it provides also care to people from across the Czech Republic. The hospital has 16 departments, seven clinics teaching students of the 1st, 2nd and 3rd Medical Faculty of Charles University, and two institutes. An integral part of the Hospital is a laboratory complex with microbiology, virology and parasitology departments. The laboratory complex also includes a biochemistry and haematology laboratories. Besides the departments and clinics which provide classical therapeutical care, the Hospital also provides social and psychological care services. Part of the Hospital are two balneology complexes, Peat Spa Toušeň in the Central Bohemia Region and Spa Mánes in the Carlsbad Region. In 2019, 38,890 patients were hospitalised in the Hospital and 684,236 were treated as outpatients. 14,247 surgeries were performed in the Hospital and 2,049 children were born there.

In February 2019, a Centre for Clinical Assistance was opened as part of the Clinic of Gynaecology and Obstetrics, which significantly contributed towards the cultivation of obstetrics in the Czech

Republic. The clinic also more than doubled the volume of care provided to oncology patients compared to 2017. Oncology care is provided primarily at the Institute of Radiation Oncology, where in 2019 a brand new radiation facility was opened.

The Clinic of Infectious, Parasitic and Tropical Diseases has become a highly specialised care centre of highly contagious diseases in the Czech Republic. Preparation works commenced in 2019 for the Department of Urology to be granted the status of an Oncourology Centre.

The number of e-prescriptions issued increased significantly in 2019, constituting 95 per cent of all prescriptions issued. The Na Bulovce Hospital is also a selected health care, educational and research facility appointed by the Ministry of Health of the Czech Republic. The Hospital's health care clinics and departments serve as teaching bases for medical and other faculties, the Institute of Postgraduate Studies in Medicine (IPVZ) as well as other institutions for the education of physicians and other medical specialists in the health care industry, and conduct basic and clinical research. The funds amounting to CZK5,880,711, obtained in 2019 from institutional sponsors, were spent rationally on both investment and non-investment projects supporting scientific research.

The area of technical operation focused in particular on insourcing cleaning and catering services. Special attention was also paid to cost optimisation, primarily by calling for new and awarding contracts in existing tenders for the supply of essential services and commodities. In the area of medical equipment, the largest volume of funds was spent on the purchases of instruments for oncogynaecology and orthopaedy. In the area of real estate infrastructure, launched was the construction of natal suites, and a central parking lot was built and opened.

MUDr. Hana Roháčová, Ph.D., Chief Officer for Therapeutical Preventative Care.

Important achievements were accomplished also in the IT area. Our in-house developed application, eNeschopenka (sick certificate), was not only implemented on state-of-the-art technologies using state-of-the-art architecture techniques, but it also made the Hospital independent in this field from suppliers, and the application was even made available to other hospitals for free use.

The Hospital is still facing a shortage of personnel, mainly nurses and paramedics. The Hospital's management has been intensively trying to resolve this issue, one of the programmes deployed being Project Ukraine.

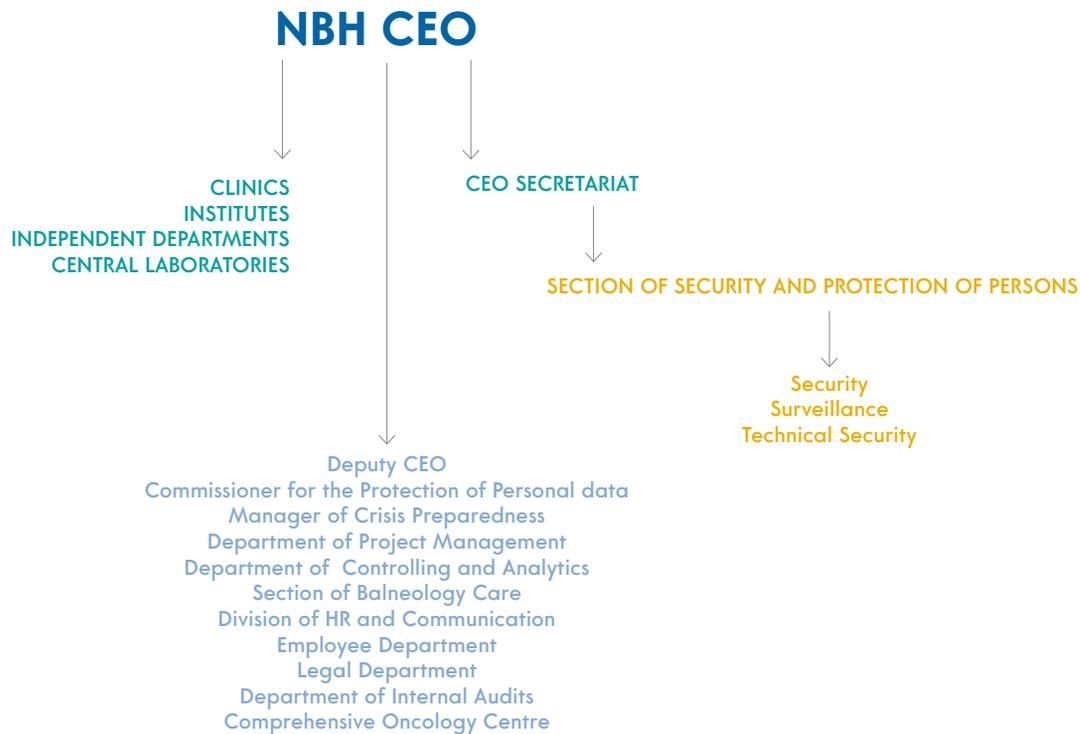
To conclude this foreword, I would like to say thank you to all our colleagues for their commitment and cooperation, both within the teams and between different departments.



684,236

The number of outpatients treated at NBH in 2019

ORGANISATION CHART – DIVISION OF CHIEF EXECUTIVE OFFICER



2,478

The number of NBH employees at the end of 2019

Division of Nursing Care

Chief Officer: **Mgr. Soňa Mendlová**

BASIC CHARACTERISTIC:

The Division of Nursing Care focuses on methodical and professional management of nursing care provided in the Na Bulovce Hospital, and on the education of its personnel. The Division comprises the Department of Nutrition Therapists, Department of Social Health, Department of Radio Physics, Hospital Chaplains, Department of Psychologists, Education Department and Medical Dispatch Office.

The Division's main priority is to provide quality nursing care. In order to be able to accomplish this, the Division must have a sufficient number of skilled personnel, a goal which the Division of Nursing Care actively endeavours to meet by taking the following steps:

- In collaboration with the 3rd Medical Faculty of Charles University, part of the theoretical teaching of future general nurses takes place at the Department of Internal Medicine, in the new classroom in Pavilion #10.
- The Na Bulovce Hospital was visited by 22 medical schools from the Czech Republic and one from Slovakia, in the form of excursions.
- In its attempt to recruit freshly graduated nurses and paramedics, the Division visited 14 schools across the Czech Republic.
- The Hospital actively cooperates with colleges and universities in providing practical training of future nurses and paramedics.
- As part of its programme of increasing the quality of nursing care, the Division of Nursing Care organised and held conferences, seminars and other educational events for all non-doctor medical personnel, with the aim for this personnel to acquire the latest know-how and to acquaint them with the latest trends in the field of nursing.

SPECIALISED DEPARTMENTS AND UNITS:

- Department of Nutrition Therapists
- Department of Social Health
- Department of Radio Physics
- Hospital Chaplains
- Department of Clinical Psychologists
- Education Department
- Medical Dispatch Office •

Section of Central Procurements

Head: Bc. Martin Vackář

MAJOR EVENTS/CHANGES IN 2019:

In 2019, the personnel of the Section of Central Procurements was stabilised, particularly in the area of public procurement contracts, and put together was a functional team of specialists in this discipline. The team called for more than 300 tenders in the sub-limit, over-limit and minor contract regimes. Of these, approximately 80 per cent were public procurement tenders, roughly 15 per cent were public procurement tenders for services, and the remaining 5 percent were tenders for construction projects. In several of these tenders, Central Procurements had to comply with the rules set for national and European subsidy programmes, which have more stringent requirements on administration of these contracts, and which are more time consuming. Compared to 2018, Central Procurements administered almost double the number of sub-limit, over-limit and minor public procurement contracts. All in all, eight employees participated in administering these contracts. •

300 tenders were called and administered

Department of Project Management

Project Manager: **Mgr. Tomáš Bazala**

BASIC CHARACTERISTIC:

For an organisation the size and importance of the Na Bulovce Hospital to function successfully, it is imperative that major (but often also minor) projects are managed in a structural way according to the methodologies intended for the preparation, controlled execution and successful conclusion and evaluation of these principal tasks, carried out with the aim to make the functioning of the Hospital as a whole more efficient. The goal of the Department of Project Management is to implement such methods into the Hospital's structures and create project-managed processes to deal with a variety of issues. Thus the Department runs for example investment projects, participates in tackling the Hospital's human resources challenges, helps to make processes more efficient and, in cooperation across the Hospital, helps to introduce innovation which in the future will enhance and improve the functioning of the institution as a whole. 2019 was the first year in which the Project Management Department of the Na Bulovce Hospital was fully functional. The Project Management team executed a variety of projects. As crucial turned out to be especially the task of completing the process of introducing linear accelerators, successfully launched in 2018. This project was dealing with a number of individual tasks linked to the introduction of these instruments into the clinical practice, but also with the follow-up necessity to successfully implement into the functioning of the Comprehensive Oncology Centre a number of new software tools which are in the Czech Republic unique.

During the year we also managed to prepare two major construction projects. As part of the preparation of establishing the Centre of Deliv-

ery Assistance, performed were preparation works aimed at meeting the requirements of the Clinic of Gynaecology and Obstetrics and the follow-up neonatal care. A comprehensive documentation was compiled, the goal of which was to significantly increase the comfort of the women in labour in our Maternity Hospital, and in the second half of the year construction works commenced. Establishing a new magnetic resonance station required first resolving a number of administrative tasks which were for this unique exchange between the Na Bulovce Hospital and the Institute of Clinical and Experimental Medicine (IKEM) of crucial importance. The Centre will be situated in the building of Radiation Oncology and will react to the increasing demand for quality radio diagnostic care of oncology patients. Towards the end of the year we announced the winner of the tender for the construction project's contractor. The project is expected to be completed during the first half of 2020. The Project Management team also participated in the project of the Ministry of Health aimed at the Na Bulovce Hospital recruiting highly qualified medical personnel from abroad, which resulted in Hospital hiring five nurses. The objective of the project is not only to recruit necessary personnel for the Hospital's departments and clinics working under a heavy load, but also to formulate a methodology for hiring this personnel (handling the necessary administrative tasks, providing suitable working conditions, housing, etc.), and also to arrange for effective language courses.

For the next year, the Department of Project Management is preparing to formulate a methodology for project management in the Hospital and further growth of its activities.



MAJOR EVENTS IN 2019:

- Completing the process of introducing linear accelerators.
- Preparing a call for tenders, announcing the tender winner and commencing building alterations in the Centre of Delivery Assistance.
- Preparing and managing the project of establishing a new Magnetic Resonance Station as part of the NBH Comprehensive Oncology Care Centre.
- Engaging in the project of recruiting highly qualified medical personnel from abroad.
- Resolving legal relations between the Hospital and the Prague City Hall.
- Preparing minor projects involving Toxicology, Central Laboratories and Radiation Oncology.

Department of Controlling and Analytics

Head: Mgr. Jan Kubů

BASIC CHARACTERISTIC:

To manage effectively an organisation the size of the Na Bulovce Hospital, it is essential to possess up-to-date, reliable and undistorted information. Not only financial data from the Hospital's accounting systems, but also information concerning the operation of each of the Hospital's clinics and departments. It is necessary to monitor also data from the Hospital's inventory management systems, watch the situation in human resources and compare these data with the data from similar hospitals from across the Czech Republic. To ensure that all these data from the Hospital's original computer systems meet at a single point and create an integral image, an assignment was formulated which led to the establishment of the Department of Controlling and Analytics. One of the long-term goals of this Department is to create a central data warehouse linked to the sources of data from all corners of the Hospital. On top of this source of information was then constructed

an analytical platform which makes the data available in a user-friendly form. The information will be made available not only to the Hospital's management and senior staff, but also to employees who perform their everyday work duties and to whom having certain information at their disposal will simplify their work. Creation of this data warehouse is a long-term task. Nevertheless, the Department's staff has been right from the beginning fully engaged in all sorts of short-term tasks of the various Hospital's divisions, being it data analyses, modelling, controlling tasks or visualisation of the acquired information. The Department's endeavour is to support and boost the Hospital's negotiating strength with health care insurance companies, searching for costs saving opportunities, implementing control mechanisms aimed at increasing productivity, and many other activities. As the works on the data warehouse and to it linked information platform progress, this list will become longer.

MAJOR EVENTS/CHANGES IN 2019:

- Mapped out were primarily sources of data in the areas of accounting, inventories, production, human resources and procurement.
- Putting online the Tableau display tool.
- Building up and filling up the Hospital's data model.
- Implementing online the Tableau display tool.
- Rendering support to the Hospital's management in their communication with health care insurance companies.
- Determining the amounts owed by health care insurance companies.
- Constructing cash-flow models for the Finance Department.
- Analysing the Hospital's business policy and bonus schemes.
- Analysing the costs spent by the clinics and departments.
- Holding discussions with the clinics concerning their financial results.
- Analysing prescriptions received by the Hospital pharmacy. •

Division of Technical Operations

Chief Officer: **Václav Studený**

TECHNICAL OPERATION ISSUES:

In 2019, the NBH management made an important decision to insource the cleaning and catering services. Cleaning works using the Hospital's own personnel commenced on 1 October 2019. The reason for this decision was to increase the work quality and eliminate the contractor's pressure to significantly increase the price paid for these services. Effective from 1 November 2019, catering and food distribution by own facilities and personnel commenced, including deliveries to the Bohnice Psychiatric Hospital. Roughly eight thousand meals are prepared and distributed every day.

A lot of attention was paid also to cost optimisation, especially by means of calling for new tenders and awarding contracts for the supply of the required services and commodities.

In the area of medical equipment, the largest volume of funds was allocated to the purchases of instruments for Oncology, amounting to approximately CZK50 million (e.g. mammography, ultrasound scans, etc.) and X-ray for Orthopaedics.

In the area of real estate infrastructure, launched was the construction of new obstetrics suites. A new central parking lot was built and many minor maintenance works were carried out.

HUMAN RESOURCES ISSUES:

In 2019, a new collective agreement was signed for the term of two years in collaboration with three trade union organisations active in the Hospital.

In the area of human resources, an emphasis was on stabilising the present personnel, both in respect of salaries and benefits and in improving the work environment.

The main task in 2019 concerning recruitment was related to the insourcing of cleaning services (using own employees). And similarly, insourced were also catering services and distributing meals within the Na Bulovce Hospital, but also in the Bohnice Psychiatric Hospital.

In the area of remuneration, introduced were the principles of employees having a vested financial interest in the accomplishment of crucial Hospital operation tasks in the form of predefined promise conditioned upon meeting predefined indicators.

BASIC NBH HUMAN RESOURCES DATA AS OF 31. 12. 2019:

At the end of the year, the Hospital was employing in total 2,478 people, of whom 547 were men and 1,931 women, which in terms of full-time equivalents amounted to 2,263.97 people – of which 491.62 were men and 1,772.36 women. In this respect it is necessary to point out that included in these numbers are also employees of the Pea Spa Toušeň (71 beds) and the Spa Sanatorium Mánes in Carlsbad (226 beds). The problems with the shortage of medical personnel are in a long-term more exasperated by the unfavourable age structure, especially due to the absence of the middle age group among physicians, and of the up-to-40 age group among nurses.

Of the total number of the Hospital employees, around 10% are foreign nationals. The considerable limitations in an institution providing health care services notwithstanding, the Hospital is doing its best to employ physically handicapped people. In total 46 persons with a physical handicap are employed at NBH. •



2019

was a year of successful launch of the eNeschopenka project

Division of Information and Communication Technologies

Chief ICT Officer: **Martin Koníř**

BASIC CHARACTERISTIC:

In 2019, the project of restructuring the IT Department was completed and substitutability of the personnel key for the Hospital's functioning and the separation of the IT HelpDesk from other IT operations were in place. The key Hospital information system support team in a pilot project managed to introduce and fully implement the principles of agile work. As a result of the close cooperation with the Hospital's health care departments, we managed to focus more on satisfying their needs.

In spite of the prevailing unfavourable situation concerning investments, implemented was an open source portal platform for the development of in-house applications which will become the corner stone of a new Intranet design. Deployed was a BPM system which will allow the Hospital processes to be computerised, and mitigated were certain major risks in the area of cyber security for conducting a security audit.

In parallel with these works, an in-house development of applications for the Hospital's needs commenced, the result of which was for example an application called eNeschopenka (sick certificate),

which has not only been implemented on state-of-the-art technologies using the latest architecture techniques, but which also freed the Hospital from the dependence on vendors. This application has been offered to other hospitals for free use.

In 2019, insourced was also, practically without any hitch, the IT catering operation and this, considering its complexity, within a record short time.

Not less important is that the NBH IT in all its development activities respects the standards of a service-orientated architecture, technology standards in integrations and the principles of open software, avoiding proprietary vendor solutions. Adhering to these principles reduces the degree of vendor lock-in, which from the long-term point of view will allow making transparent procurements and thus reducing costs.

Needless to say, the hardware (end-user as well as infrastructure) is being replaced on a continual basis, application support is provided and the personnel receives necessary training.

SPECIALISED ACTIVITIES:

The Information and Communication Technologies team comprises 25 professionals. Besides the Division's manager and his assistant, working there are two PMs/analysts, a process analyst, a Java developer, a security architect, a security manager, 12 administrators of the various Hospital systems, two HelpDesk officers and five engineers.

MAJOR EVENTS IN 2019:

- Personnel and organisational changes:
 - The project of restructuring the IT Department was completed;
 - Substitutability in key systems after personnel changes was defined and put in place;
 - Agile procedures were implemented;
 - Competencies in in-house carried out analysis and development were formulated;
- Achievements:
 - Deployment of a BPM platform;
 - Deployment of a portal platform;
 - Increased cyber security;
 - Development of in-house application eNeschopenka.
 - Insourcing of the catering operations IT system and integrating it into the Hospital's IT systems.
- Applications and strict adherence to the current strategy:
 - Service-orientated architecture and separation of the service layer;
 - Definition of primary systems;
 - Separation of environments and release management as part of DevOps.

Department of Public Relations and Communication

Head: **Bc. Filip Řepa**

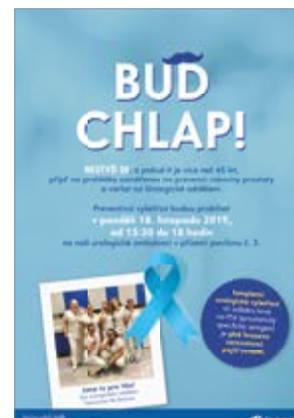
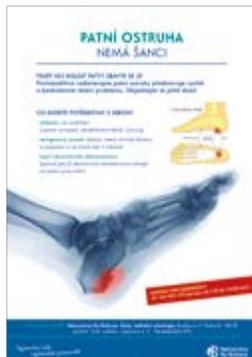
Spokesperson: **Mgr. Simona Krautová**

BASIC CHARACTERISTIC:

The Department of Public Relations and Communication, in cooperation with the Hospital's other departments, presents the Na Bulovce Hospital to the general public as well as to the Hospital's employees.

The Department has the following main tasks:

- Issuing press releases
- Organising press conferences and briefings
- Communicating with the media
- Publishing an internal newsletter
- Publishing annual reports
- Keeping the NBH website up to date
- Administering social networks
- Dealing with state authorities
- Coordinating the process of receiving donations to the Hospital
- Producing educational and presentation materials
- Creating a new Hospital orientation system
- Holding internal workshops for nurses
- Formulating the Hospital's corporate identity
- Managing Hospital's events
- Supporting recruitment campaigns
- Cultivating the work environment





MAJOR EVENTS IN 2019:

In the area of public relations and communication the last year was, because of the number of projects executed and those still in progress, relatively hectic. However, it is very encouraging that the energy exerted has met with a positive reaction from the employees and the general public alike.

- The Na Bulovce Hospital is most often mentioned in the media in connection with some positive topics, events, patient stories, unique therapeutic techniques and surgeries, which is an image which the Hospital with its employees and many excellent specialists undoubtedly deserves.
- In cooperation with the Technical Division, the PR and Communication Department designed and installed the first stage of a new Hospital navigation system. Seven orientation maps have been installed on the Hospital grounds. In the next stages, direction signs will be erected at crossroads, and new orientation boards installed inside the Hospital buildings. Our nurses were given tear-off pads of maps, on which they will be easily able to mark out the route how the patients can get to which building within the Hospital complex.

- The Department of PR and Communication has increased its cooperation with the Hospital's various departments in the preparation of promotional and information materials for patients, both in printed and electronic form. Last year dozens of posters and information leaflets were produced for the Hospital's clinics and departments.
- Unlike in the previous years, the Hospital's annual report is now produced in a high content and graphic presentation standard, in two language versions – Czech and English.
- In the internal newsletter employees are informed what has been recently happening in our Hospital.
- Another big project still underway is designing the Hospital's website. A new modern website design has been prepared, with the programming works in progress. We expect that the new website will go online in the summer of 2020.
- A programme encouraging more active use of social networks has been launched to present the Hospital, but also as a proven support tool for the HR's recruitment activities.
- The Department of PR and Communication has successfully negotiated the provision of several employee benefits in the form of discounts granted by our partners from a variety of fields. Negotiations aimed at adding new benefits will continue in cooperation with the Department of Human Resources.
- The opening of the Underground Hospital, first to employees and subsequently also to the public, met with an enormously positive response and interest. Excursions will continue next year.
- In 2019, first "nurse workshops" were organised together with the Hospital's management at the Clinic of Infectious Diseases and the Clinic of Surgery. The workshops turned out to be very useful, and therefore will continue in the future.
- The Department managed to successfully negotiate and revitalise collaboration with a variety of subjects, from contributory and charity organisations, the media, to very special partnerships such as collaboration of the Clinic of Orthopaedy with the Czech Skateboarding Association. Following the conclusion of this partnership, a video was produced which, with its almost 60 thousand viewings, was the historically most successful contribution in the Na Bulovce Hospital's Facebook profile. •



CLINICS AND DEPARTMENTS

I.

500,000

amount of money in crowns invested by NBH
in 2019 into instruments for oncology



0,0000

Department of Anaesthesiology and Resuscitation

Chief Physician until 10/2019: **MUDr. Zdeňka Krupková** Chief Physician from 10/2019: **MUDr. Jakub Bala**

Matron: **Mgr. Hana Kožmínová**

BASIC CHARACTERISTIC:

The Department of Anaesthesiology and Resuscitation provides anaesthesiological and resuscitation care. The Department's function is to provide pre-hospitalisation and hospitalisation care to critically ill patients with their life endangered, or to those whose vital life functions have already failed. When providing anaesthesiological and resuscitation care, the Department cooperates closely with surgery and non-surgery disciplines. Since November 2019, part of the Department of Anaesthesiology and Resuscitation has been the Emergency Admissions Department.

THE DEPARTMENT OF ANAESTHESIOLOGY

administers full and local anaesthesia in surgical operations, but also for diagnostic and therapeutic purposes. The Department also deals with the problems of pre-, peri- and post-operative pain, and treats acute painful diseases. Part of the Department is an out-patient unit for the treatment of pain, dealing with the very complex problems of relieving pain suffered by patients with chronic algesia syndrome of whatever the cause (oncologic, degenerative or metabolic disease).

THE DEPARTMENT OF RESUSCITATION

admits, diagnoses and treats life-endangering states which represent all acutely developed diseases, but also chronic cases of failing or already failed fundamental life functions, requiring urgent or protracted resuscitation care.

SPECIALISED ACTIVITIES:

The Department of Anaesthesiology and Resuscitation of the Na Bulovce Hospital is one of the first facilities of its kind which deployed in its practice regional anaesthesia of all kinds. At present, the Department administers on a routine basis:

- central block anaesthesia, i.e. epidural and subarachnoid spinal block, including continual ones;
- peripheral blocks of nerve plexuses or individual nerves, including continual techniques for post-surgery analgesia;
- regional anaesthesia to children;

The ratio between full and regional anaesthesia administered annually at this Department is close to the standard in developed European countries. The Department of Anaesthesiology and Resuscitation of the Na Bulovce Hospital has been for a number of years functioning as an education centre for theoretical and practical teaching of the techniques of administering regional anaesthesia, including therapeutic blocks and analgesia in obstetrics. The Department of Anaesthesiology and Resuscitation of the Na Bulovce Hospital provides a 24-hour "acute pain service", being among the first to introduce this type of care. •

297

In 2019, NBH was employing 506 physicians, of which 297 were women

Central Laboratories

Head: MUDr. Blanka Horová

BASIC CHARACTERISTIC:

The Hospital's Central Laboratories are situated in Pavilion #8 inside the Na Bulovce Hospital complex. The work schedule is organised on the principle of consolidation of the laboratory sections according to their specialisation - Clinical Biochemistry and Immunology, Clinical Haematology and Blood Transfusions which includes Haematology Outpatients and Autologous Transfusion Preparation Division, and Clinical Microbiology which includes the Division of Parasitology, Virology, Molecular Biological Methods in Laboratory Diagnostics and Examination Laboratory with Autologous Vaccine Preparation Room. Part of the Central Laboratories are two stand-alone Central Blood Sampling Stations with a direct access to the laboratories and a common Central Sample Reception.

The Central Laboratories (Bacteriology and Virology) are equipped with the essential equipment - BSL3 for the screening of highly dangerous infections, and provide services to the largest infection diseases establishment in the country - the Clinic of Infectious, Parasitic and Tropical Diseases of the Na Bulovce Hospital.

The Laboratories monitor the developments and latest screening trends, and in the current epidemic situation have been since January 2020

facing heavy challenges testing infections caused by the COVID-19 (SARS CoV-2) coronavirus. The Department of Clinical Microbiology was the second laboratory after the National Institute of Public Health in Prague, which actively engaged in testing and detecting the COVID-19 disease and which has been successfully trying to cope with the growing demand for COVID-19 testing due the current spread of the infection among the population.

Very significant are the nation-wide activities of the Parasitology Laboratory with a fully functional National Reference Laboratory for the Diagnostic of Parasitic Infections established in 2018 by the Ministry of Health of the Czech Republic.

It must be emphasised that the Microbiology Laboratory is the largest producer of autologous vaccines in Prague, meeting the requirements of the Hospital as well as those of a wide circle of outpatients.

In 2019, the Central Laboratories successfully passed ISO 15189 accreditation proceedings and as the result were granted the National Authorisation Centre for Clinical Laboratories (NASKL ČLS JEP) certification for disciplines 801, 818, 222, 802 and 805.

SPECIALIST OUTPATIENT CLINICS:

The Hospital's Haematology Ambulatory Clinic is currently the only specialised haematology outpatient clinic for almost half a million outpatients from the Na Bulovce Hospital catchment area (Prague 8 and 9 and Prague East). The team of five physicians and three nurses carry out haematology tests, dispense patients, provide conciliatory services to outpatients and patients hospitalised at NBH, diagnose disorders of patients' haematopoiesis (blood formation) including examinations of bone marrow - sternal paracentesis with aspiration, and in collaboration with an anaesthesiologist performs trepanobiopsy, and also performs therapeutic venepunctures, intravenous applications of iron preparations and haemosubstitutes (transfusions).

I. CLINICS AND DEPARTMENTS



NEW METHODS AND TECHNIQUES:

OKBI

- A new electronic request form for extramural tests was put into a trial operation, which contributed towards unification and simplification of the system of sending test samples to contracted laboratories;
- New AFP methods, vitamin B12, Ferritin and Prolactin in SI units have replaced the existing methods;
- The glucose in plasma method was introduced, with samples taken into antiglycolitic agent, made available on the electronic request form to the Department of Paediatry.

OKHT

- A new method of testing eosinophils in sputum;
- In the examination of cerebrospinal fluid, implemented was a correction technique for samples contaminated by peripheral blood;
- The use of DOAC STOP tablets was introduced for selected coagulation examinations of patients treated by direct oral anticoagulants to eliminate interference;

OKM

- Regular screening was introduced to detect the resistance of phenotype Gram-negative rod cells isolated from the Hospital's patients for quick intervention into the treatment and to spread resistance;
- Introducing modern selective soils in diagnosing *Campylobacter jejuni* bacteria.
- Multiplex PCR (for the detection of bacterial, viral and parasitic originators) as the foundation for successful transplant of stool in *Clostridium difficile* associated diarrhoea (CDAD)
- Negotiations were launched for the implementation of an ATB stewardship project in collaboration with the Na Bulovce Hospital's Drug Committee;
- Introducing serological diagnosing of *Mycoplasma pneumoniae*, tick-borne meningoencephalitis and enteroviruses on a VIDIMAT immuno-analyser;
- Transferring the screening for imported anthrozoosis – viruses Zika, Dengue and Chikungunya – to a new VIRCLIA immuno-analyser, expanding it by the rickettsia methodology (*Bartonella*).
- Automation of the serology of viral hepatitis E;
- Introduction of a LIAISON

XL immuno-analyser for serological diagnostics of viral hepatitis and HIV, herpetic viruses and B19 parvovirus;

- Using the western blot method for examining an important marker for the screening for chronic chlamydia infection – cHSP60 (chlamydia heat-shock protein);
- The method of serological diagnosing of measles was complemented by direct molecular diagnostics;

Introducing an extended respiration panel in the FilmArray system.

UNIQUE INSTRUMENTS ACQUIRED:

OKBI instruments

- Tenders were called for the delivery of POCT analysers for the Department of Anaesthesiology and Resuscitation (ARO) and the NEO ICU, installed were Radiometer ABL 90 Flex instruments including Aqure middleware which allows the instruments to be controlled remotely and which provides a connection to the laboratory information system. Another instrument was installed in the OKBI statim laboratory.
- Based on a tender, the Interlab G26 electrophoretic analyser in the Immunology Laboratory was upgraded.

- Based on a tender, a new Phadia 250 chemical immuno-analyser was acquired for use in the Immunology Laboratory for determining specific IgE (allergens).
- In the preparation stage is a call for tenders for the delivery of an automatic analyser for the processing of urine and body fluids.

OKHT instruments

- Two large capacity, fully automated coagulation analysers were installed: STA-R Max and STA Compact Max.

MAJOR EVENTS IN 2019:

- Towards the end of 2019, the Central Laboratories renewed the NASKL certificate for further two years, in disciplines 801, 818, 222, 802 and 805.
- National Reference Laboratory (NRL) for diagnosing tropical parasitic infections. By establishing the NRL and updating the list of parasitology examinations, the number of extramural examinations grew enormously, as did the number of patients examined. The examinations carried out considerably exceeded the Prague catchment area, satisfying the interests and needs of physicians from all over the Czech Republic.
- The task of organising and holding Clinical Pathology

conferences to be held in two-year cycles (with the next one due in 2021) has been assigned to RNDr. Richterová and Mgr. Zicklerová.

- The Parasitology team participated as co-authors in four publications ready to be released.
- A third round of the preparation of epidermolytic hyperkeratosis (EHK) tropical tissue parasitosis and consultation internship for attending parasitologists took place. The NRL introduced a course titled What's New in Clinical Parasitology under the auspices of the Institute for Postgraduate Studies in Medicine, which is planned to be held annually. In 2020, prepared will be a course on the blood parasites morphology. The Laboratory provided internships for Czech and foreign students

of the 3rd Medical Faculty of Charles University as an elective subject. The results of their work were presented at several congresses in the Czech Republic and abroad.

- Electronic communication with extramural applicants. Negotiations aimed at sending the results to external applicants electronically are being held on a continuous basis.
- 2019 publication activities: MUDr. Renata Barbara Steinbauerová – Nedostatek železa u pacientů v ordinaci praktického lékaře [Iron deficiency of patients in the surgery of a general practitioner] – Acta medicae 13/2019, pp 98-101.

In 2019, our Central Laboratories obtained ISO certification

15,189

Central Sterilisation Station

Matron: **Mgr. Irena Chládková**

BASIC CHARACTERISTIC:

The Na Bulovce Hospital's Department of Central Sterilisation is a specialised facility which by the nature of its activities has an irreplaceable position in the prevention of nosocomial (hospital-acquired) infections, and thus contributes significantly to achieving a safe comprehensive patient medical care. It pre-sterilises and sterilises medical materials and supplies for operating theatres and other Na Bulovce Hospital departments, all-in-all to roughly 70 health care providing workplaces. The advantage of having a centralised sterilisation station is the high

quality of the pre-sterilisation and sterilisation process, trained personnel, time saving for the nursing personnel and, last but not the least, lower financial costs. Part of the Central Sterilisation Station is a Central Hospital Bed Treatment Station which disinfects mattresses, bed linen, rehabilitation and positioning devices, etc.

The NBH Central Sterilisation Station also provides quality services to external subjects on a contractual basis. Among the satisfied clients are many general practitioners as well as specialist physicians, haemodialysis and other facilities.

MAJOR EVENTS IN 2019:

- In 2019, the Central Sterilisation Station acquired two new automatic washing machines. Installed was also a new water treatment plant which increased the quality and capacity of the production of demineralised water.

- The NBH Central Sterilisation Station has been since 2018 holder of a ČSN EN ISO 13485 ed. 2:2016 Quality Management System Certificate for medical devices. One of the major benefits of having this certification is the guarantee of the production process consistency and thus also of the stability and high quality of the services rendered and products provided to clients, higher quality of the management system and increased efficiency of the organisation as a whole. It also simplifies the process of demonstrating the conformity with the requirements of EU directives and corresponding legislative requirements, demonstrating the efficiency and effectiveness of the implemented management system by an independent third party, cost optimisation – reduction of operating costs, reduction of the costs of non-compliant products, saving of raw materials, energies and other resources, increased confidence of the general public and state inspection authorities to the medical devices manufacturer. •

Clinic of Dermatology and Venereology

Chief Physician: **Prof. MUDr. Jana Hercogová, CSc., MHA**

Chief Physician and Representative for Pedagogy and Science: **MUDr. Veronika Křížková, MBA**

Matron: **Martina Šimková**

BASIC CHARACTERISTIC:

The Clinic of Dermatology and Venereology of the Na Bulovce Hospital is situated in Pavilion #9, a building dating back to 1937. In the past the Clinic underwent a major reconstruction and was equipped with state-of-the-art instruments: as the only in this country it has six digital dermatoscopes and a confocal microscope used for non-invasive examinations of skin tumours. It also carries out treatment using a vascular laser and a 308 nm instrument for photodynamic or excimer light therapy for the treatment of psoriasis a vitiligo. The Lymphology Centre has ten lymphatic drainage instruments. The Clinic provides preventative therapy care for the full spectrum of skin and venereal diseases to patients from within the Hospital's catchment area, but is also a centre for conciliar services for patients from all over the Czech Republic. It is a regional centre for venereology for Prague 8 and the largest

lymphology centre in Prague. The Clinic is also a teaching base for the 2nd Medical Faculty of Charles University in Prague. It is a facility accredited by the Ministry of Health of the Czech Republic for the education of physicians in the field of dermatology and venereology, child dermatology and venereology and corrective dermatology. The Clinic cooperates with many interdisciplinary teams within the Hospital (Advisory Centre for Congenital Skin Defects, Advisory Centre for HIV, Melanoma Team, Advisory Centre for Haemangioma). Among the Clinic's cooperating medical facilities is the Institute of Clinical and Experimental Medicine (IKEM), Centre for Assisted Reproduction (ISCARE), National Reference Centre for Syphilis, Institute of Medical Genetics of the 2nd Medical Faculty of Charles University, Motol University Hospital, and Bio-optical Laboratory in Pilsen.

SPECIALISED OUTPATIENT UNITS:

- Lymphology centre
- Venereology centre
- Centre for biological treatment of psoriasis, eczema and urticaria
- Melanoma team (oncodermatology)
- Children dermatology unit
- Skin syndromes of Lyme borreliosis unit
- Vitiligo unit
- Wound healing unit

MAJOR EVENTS IN 2019:

- Publishing a textbook Clinical Dermatology and Venereology by Jana Hercogová et al. 76 co-authors from all Czech and Slovak Dermatology and Venereology clinics, of which 23 from the NBH Dermatology and Venereology

Clinic plus several colleagues from other NBH clinics participated in writing the textbook. The textbook has two parts, 1,736 pages, 1,658 colour illustrations, 256 histopathology photographs and 540 tables.

- Giving two training courses for dermatohistopathology residents in the Bio-optical Laboratory in Pilsen,
- Organising and holding the 25th National Dermatology Congress in Brno.
- Joining the European Reference Network for Rare Skin Diseases (ERN-SKIN) concerning two issues – diseases with keratinisation disorder and vascular malformation.
- Publications with an impact:
- Rob F, et al. Prevalence of Chlamydia trachomatis and Neisseria gonorrhoeae co-

infections among patients with newly diagnosed syphilis: a single-centre, cross-sectional study. *Cent Eur J Public Health*. 2019 Dec;27(4):285-291.

- Hercogová J, et al. AURIEL-PsO: a randomized, double-blind phase III equivalence trial to demonstrate the clinical similarity of the proposed biosimilar MSB11022 to reference adalimumab in patients with moderate-to-severe chronic plaque-type psoriasis. *Br J Dermatol*. 2020 Feb;182(2):316-326.
- Edwards CJ, Hercogová J, Albrand H, Amiot A. Switching to biosimilars: current perspectives in immune-mediated inflammatory diseases. *Expert Opin Biol Ther*. 2019 Oct;19(10):1001-1014.
- Stehlikova Z, et al. Dysbiosis of Skin Microbiota in Psoriatic

Patients: Co-occurrence of Fungal and Bacterial Communities. *Front Microbiol*. 2019 Mar 21;10:438.

- Stehlikova Z, et al. Crucial Role of Microbiota in Experimental Psoriasis Revealed by a Gnotobiotic Mouse Model. *Front Microbiol*. 2019 Feb 21;10:236.
- Suppa M, et al. Prevalence and determinants of sunbed use in thirty European countries: data from the Euromelanoma skin cancer prevention campaign. *J Eur Acad Dermatol Venereol*. 2019 Mar;33 Suppl 2:13-27.
- Suppa M, et al. Association of sunbed use with skin cancer risk factors in Europe: an investigation within the Euromelanoma skin cancer prevention campaign. *J Eur Acad Dermatol Venereol*. 2019 Mar;33 Suppl 2:76-88. •

Long Term Intensive Nursing Care (DIOP)

Chief Physician: **MUDr. Zuzana Bonhomme Hankeová, M.I.B.**

Matron: **Mgr. Hana Středová**

BASIC CHARACTERISTIC:

DIOP provides therapeutic and nursing care to patients in convalescence and necessary physiotherapy and nutrition support, using modern methods of nursing care and basal stimulation. Beds are reserved for patients with a severe disorder of their state of health, who were intensively treated and who now need long-term more intensive nursing care, the goal of which is to stabilise their state, support their self-sufficiency and minimise their pharmacological treatment.

NEW METHODS AND TECHNIQUES:

The DIOP Department specialises in healing chronic wounds and decubitus, and has been even successful in healing degree IV decubitus lesions. We have also developed a nursing and rehabilitation method for successful decannulation of patients who were for a long time unable to have their tracheotomy tube removed, including patients after craniofacial trauma.

MAJOR EVENTS IN 2019:

Acquiring a new BIO-lamp which was purchased from financial donations.

In 2019, one nurse completed a special study – ARIP, and another one still continues with this postgraduate course. The DIOP nursing team has been long-term stabilised.

In 2019, 36 patients were hospitalised at DIOP, of whom 7 patients were hospitalised already in 2017 or 2018, 21 were released to home care, rehabilitation centres and social welfare services, and 8 patients died. •

The number of patients hospitalised in 2019 at DIOP

36

Clinic of Gynaecology and Obstetrics

Head: **Prof. MUDr. Michal Zikán, Ph.D.**

Chief Physician: **MUDr. Peter Koliba, GPK**

Matron: **Alena Wernerová, MBA**

BASIC CHARACTERISTIC:

The Clinic of Gynaecology and Obstetrics is a joint facility of the 1st Medical Faculty of Charles University and the Na Bulovce Hospital. It provides a full spectrum of care in the field, and is an intermediary perinatology centre and an accredited centre for highly specialised care in oncogynaecology (Oncogynaecology Centre). It is also an accredited teaching centre for pre-attestation preparation of doctors in the disciplines of gynaecology and obstetrics, children gynaecology and urogynaecology. It provides teaching to year 5 students of general medicine. It functions as the first model Centre for Delivery Assistance in the Czech Republic.

SPECIALISED OUTPATIENT UNITS:

- Outpatient centre for children gynaecology (our Clinic is the seat of European Organisation for Paediatric and Adolescence Gynaecology (EURAPAG))
- Centre for oncologic prevention
- Centre for persons with hereditary predisposition to the development of malignant tumours (BRCA Centre)
- Centre for risk and pathological pregnancy
- Urogynaecology outpatient centre
- Oncogynaecology centre
- Outpatient centre for the treatment of endometriosis
- Mammalogy outpatient centre
- Centre for delivery assistance

MAJOR EVENTS IN 2019:

- In February 2019, the Clinic opened the Centre for Delivery Assistance (CPA), an event which has significantly contributed to the cultivation of obstetrics in the Czech Republic.
- Towards the end of 2019, the Clinic acquired brand new equipment for its operating theatres (operating tables, lights, laparoscopy towers, equipment for non-radiation detection of sentinel lymph nodes) and intensive care units, and opened a theatre for minor surgeries.
- The Centre for Delivery Assistance has become a model centre, the aim of which is to show and verify the options for cultivating the child delivery care for low-risk women in labour.

The Clinic significantly increased the volume of care provided to oncogynaecology patients to more than double compared to 2017. •



Clinic of Surgery

Head: **Doc. MUDr. Jan Fanta, DrSc.**

Chief Physician: **MUDr. Pavel Horák**

Matron: **Mgr. Renata Grymová**

BASIC CHARACTERISTIC:

The Clinic of Surgery of the 1st Medical Faculty of Charles University, the Institute for Postgraduate Education in Medicine (IPVZ) and the Na Bulovce Hospital, provides outpatient and hospital care to patients with diseases requiring surgery. The Clinic has 83 beds, of which 14 are intensive care beds and 3 beds are in single-bed rooms with higher-standard appointment. Carried out at the Clinic are all chest, abdominal, vascular and mammary surgeries, and care is also provided to patients with head, chest and abdominal injuries. The Clinic is part of a comprehensive oncology centre.

Priority units are:

- NanoKnife. This instrument is used to destroy non-resectable lung tumours. It is a unique technique which the Clinic of Surgery of the Na Bulovce Hospital, as the only facility in the Czech Republic, uses for lung tumours.
- Treatment of rare tumours of the peritoneum. In this discipline, the Clinic is the largest centre in the Czech Republic. The hyperthermic intraperitoneal chemotherapy (HIPEC) has been used by the Clinic for already 21 years, which in the past 3 years was complemented by special chemotherapy for the treatment of mesothelioma of the parietal pleura, the so called HITHOC.
- Mini-invasive surgery. By using mini-invasive surgery, the Clinic performs the full spectrum of resections of the lungs, resections of the oesophagus, stomach, colon and rectum. Almost 100% of minor surgeries of the gall bladder and most surgeries of acute appendicitis are performed laparoscopically, as are the operations of hernia and thoracic diaphragm hiatus-fundoplication surgeries, plastic operations of the hernia, thoracic diaphragm and other organs.
- Dealing with complicated diseases of the rectum, including function disorders, centre for implanting neurostimulators in patients with anal incontinence. Coloproctology has a long tradition in the Na Bulovce Hospital. The Clinic of Surgery is a teaching centre for the Institute of Postgraduate Studies in Medicine (IPVZ), a centre for the implementation of neurostimulators, and also a centre for the treatment of the non-specific inflammatory bladder disease (IBD), and administered there is biological treatment. The Clinic provides advisory services in proctology to medical institutions throughout the Czech Republic.
- Hemiorporectomy. A rare operation performed in the area of pelvis, in which the bottom part of the body, including the pelvis itself, is amputated.

SPECIALISED UNITS:

- Cerebral unit
- Hernia unit
- Proctology unit
- Mammology unit
- Chest unit
- Gastroenterology surgery unit
- Stomal unit

MAJOR EVENTS IN 2019:

- From within the spectrum of rare patients, an increased number were treated with the irreversible electroporation (IRE) technique, using NanoKnife and HITHOC instruments for tumours of the parietal pleura.
- Due to the shortage of personnel, the number of standard beds had to be reduced.
- Publication activities:
 - Article in magazine Kazuistika: Absces sleziny jako vzácný projev mimoplicní tuberkulózy – kazuistika [Abscess of the spleen as a rare syndrome of extrapulmonary tuberculosis – casuistry]. HORÁK, Pavel Kor. – HOROVÁ, B. – KOUTNÍKOVÁ, H. – MARVAN, Jaroslav – FULÍK, Jan – FANTA, Jan.
 - Synopsis in magazine Rozhledy v chirurgii: Operační řešení tříselné kýly z pohledu nejnovějších doporučení [Surgical solution of groin hernia from the aspect of the latest recommendations]. HORÁK, Pavel – CHLUPÁČ, J. – FRONĚK, Jiří.
 - Synopsis in magazine Klinická onkologie: Maligní nádory peritonea – úvod do problematiky [Malignant tumours of the peritoneum – introduction to the topic]. BARTOŠKA, Petr – ANTOŠ, František – NĚMEC, Libor – HOSKOVEC, David – DYTRYCH, Petr – LEVÝ, Miroslav – KLOS, Dušan – TOMÁŠEK, Jiří.
 - Synopsis in magazine Klinická onkologie: Pseudomyxom peritonea. BARTOŠKA, Petr – ANTOŠ, František – VÍTEK, Pavel – MARX, Josef – KOPIC, Jiří – HOLEČKOVÁ, Petra. •

Department of Internal Medicine

Chief Physician: **MUDr. Jiří Koskuba**

Matron: **Mgr. Lucie Kramešová**

BASIC CHARACTERISTIC:

The Department of Internal Medicine of the Na Bulovce Hospital provides fully accredited diagnostic and acute standard to intensive hospital care practically across the full spectrum of the internal medicine discipline. Part of this care is also performing urgent invasive cardiological operations at the immediately adjacent Cardiology s.r.o. The Department has a hundred acute beds in four-bed stations, plus 14 intensive care beds at the ICU.

This fundamental clinical section is situated in Pavilion #10, which is the property of the Capital City of Prague. Unfortunately, due to its age and neglected essential renovations, the building is in a poor construction and technical condition. Towards the end of the year, commenced were at least reconstruction works of ICU-A on the building's first floor. However, the entire building requires an overall reconstruction and renovation.

Luckily, thanks to the commitment of the Hospital staff and management, patients are not much affected by this situation. After all, this is the only way how the Clinic is at all able to provide hospital care to the enormous natural and unstoppable ageing population within the catchment area in the north-eastern part of Prague, including adjacent areas of the Central Bohemia Region. Regrettably as the result, the demand almost permanently exceeds supply. Therefore opening a 5th bed station would be an ideal solution. Premises are available. However, a big problem in this unquestionably both physically and mentally demanding section of the Clinic, is the shortage of nurses. And this in spite of the fact that the Clinic is a teaching facility for future nurses of the 3rd Medical Faculty of Charles University, and in spite of the Clinic's accreditation and an adequate number of trainers of physicians-interns who pass through the Clinic.

SPECIALISED OUTPATIENT UNITS:

- Endocrinology and Diabetology unit with immediate access to the Chest Surgery unit, allowing erudite operations such as of the thyroid gland to be performed.
- The Cardiology unit with its new Holter echocardiography machines and instruments for ultrasound examinations of veins and DK arteries, which has immediate access to other necessary units such as the Na Bulovce Hospital's Department of Functional Diagnostics, Centre of Nuclear Medicine (situated right next to Pavilion #10) and, as already mentioned, Invasive Cardiology.
- Another specialised outpatient unit is Gastroenterology, which focuses on the full spectrum of diseases of the alimentary canal, liver, biliary paths and pancreas. The unit performs a spectrum of examinations such as gastroscopy, colonoscopy, ERCP and non-targeted liver biopsy. Luckily, because of the tradition established by professor Mařatka, as it was here where the

- Czech Gastroenterology was born, this unit has undergone a complete renovation, and examinations are performed in a very modern and patient-friendly environment. This section and its personnel provide for the entire NBH the availability of non-stop urgent out-of-hospital gastroenterology services. Increasing the number of examined patients has been, in spite of the considerable demand, prevented by the personnel and instrument limits. Because of the enormous growth in pancreas diseases including carcinoma, the plan is to provide the very necessary and missing endosonography of the oesophagus.
- The Nutrition unit provides care in nutrition problems to a broad spectrum of clients across medical disciplines.
 - The Chronic Internal Medicine unit provides post-examinations and post-treatment to patients who require it, mainly shortly after their hospitalisation, or after being released.

Clinic of Infectious, Parasitic and Tropical Diseases

Head of 1st Medical Faculty of Charles University: **Doc. MUDr. Hanuš Rozsypal, CSC**

Head of 2nd Medical Faculty of Charles University: **Doc. MUDr. Dušan Pícha, CSC**

Head of 3rd Medical Faculty of Charles University: **Prof. MUDr. Jiří Beneš, CSC**

Chief Physician: **MUDr. Hana Roháčová, Ph.D.**

Matron: **Květuše Novotná**

BASIC CHARACTERISTIC:

The Clinic of Infectious, Parasitic and Tropical Diseases is the largest facility of its kind in the Czech Republic. It has eight standard departments and two intensive care units. The Clinic also has on its premises two operating/delivery theatres intended for patients with infectious diseases who require surgery, and for women with an infectious disease to give birth. In 2019, the Centre for Highly Infectious Diseases was given the status of the Czech Republic centre of highly specialised care. The Clinic is also a centre for HIV positive patients receiving comprehensive care, including surgeries, and child deliveries by

HIV positive women. The Clinic also has a guaranteed centre of infectious hepatitis, where treatment using the latest medical drugs is rendered. This year the Clinic provided care to even greater number of patients than in the previous years, because the Centre for Infections Hepatitis received a considerable financial injection from health insurance companies. The Clinic also serves as a teaching facility for three medical faculties, namely the 1st, 2nd and 3rd Medical Faculty of Charles University, and held there are internships for postgraduate studies of physicians.



Clinic of Plastic Surgery

Head: **MUDr. Martin Molitor, Ph.D.**

Chief Physician: **MUDr. Petros Christodoulou**

Matron: **Bc. Katarína Veselá**

BASIC CHARACTERISTIC:

The Clinic of Plastic Surgery of the Na Bulovce Hospital offers a full spectrum of services and professional care in plastic surgery, with the exception of face clefts. It participates in the teaching of medical students, especially those of the 1st Medical Faculty of Charles University, and is one of the accredited institutions for postgraduate teaching of physicians, preparing them to acquire the qualification as a specialist. The Clinic is also a seat of the Institute for Postgraduate Education in Medicine (IPVZ).

SPECIALISED OUTPATIENT UNITS:

- Unit for comprehensive care of women with breast disorders
- Unit for large nevi and other congenital development skin disorders
- Unit for hand surgeries

MAJOR EVENTS IN 2019:

- Introducing new brands of breast implants used in reconstruction surgery – Polytech and Motiva.
- Organising IPVZ courses:
- Interdisciplinary view of oncosurgery of the breast and its reconstruction after mastectomy
- Aesthetic face surgery
- Interdisciplinary course for hand surgery
- Advanced techniques in face surgery
- Organising the XXVth Educational Symposium of

Plastic and Aesthetic Surgery:
BIA-ALCL – View from All
Angles

- Participating in humanitarian missions in Jordan (MEDEVAC) and India (GICAM).
- Publication activities:
 - Hromádková V, Francová P, Bájecný M, Jonas F, Molitor M, Šefc L, Měšťák O. The CD34+ Cell Number Alone Predicts Retention of the Human Fat-Graft Volume in a Nude Mouse Model. Folia Biol. 2019, 65(2)64-69.

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orderlies were employed at NBH in 2019

Clinic of Pneumology

Head: **Doc. MUDr. Norbert Pauk, Ph.D.**

Chief Physician: **MUDr. Petr Opálka, CSc., MBA**

BASIC CHARACTERISTIC:

The Clinic of Pneumology provides highly specialised care to patients across the full spectrum of lung disorders. Among the core programmes is the care of patients with lung tumours, diseases caused by an obstruction of the respiratory system (CHOPN, Asthma bronchiale), interstitial lung processes and breathing disorders during sleep, and indications for domestic non-invasive ventilation. Majority of the patients are people sent to the Clinic for conciliar examination. The Clinic is a teaching base for the 3rd Medical Faculty of Charles University for pulmonology.

The Clinic has a general lung unit, a specialised units for lung tumours, difficult-to-treat asthma, chronic obstructive pulmonary disease (COPD), interstitial lung processes, breathing disorders during sleep, a unit for people addicted to tobacco, a functional laboratory for examining lung functions and indication of non-invasive lung ventilation, part of which is a Department of Bronchology.

NEW METHODS AND TECHNIQUES:

- The Clinic continues expanding its Centre for Diagnostics and Treatment of Difficult-to-Treat Asthma (DTA), with the option to administer the Centre's biological treatment. It newly added products Nucala and Fasentra to its portfolio of drugs used to treat asthma.
- The Centre of Home Non-invasive Ventilation for patients with chronic respiratory insufficiency received new equipment, including for non-invasive ventilation support in the disorders of muscle nerve and the so called High-intensity NIV in CHOPN. Patients are examined and treated either as outpatients or while hospitalised.
- Based on a properly determined histology diagnosis with the support of molecular genetic examination of the lung carcinoma in the form of Next Generation Sequencing, patients are indicated for the state-of-the-art biological treatment by immunotherapy and targeted treatment in line with the latest therapeutic standards.
- Patients with the syndrome of sleep apnoea and hypopnea were treated by CPAP and VPAP non-invasive support ventilation.

UNIQUE INSTRUMENTS ACQUIRED:

- The Clinic has a newly acquired Philips Respironics V60 instruments for non-invasive pulmonary ventilation.
- The Laboratory for Breathing Disorders in Sleep is newly equipped with a Porty 8 instrument for polysomnographic monitoring.

MAJOR EVENTS IN 2019:

- The Ministry of Health approved the change of the Clinic's name to Pneumology Clinic of the 3rd Medical Faculty of Charles University and Na Bulovce Hospital. The Clinic published 13 articles and three papers to monographies and gave 25 lessons in the Czech Republic and abroad. •

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First Medical Aid Service

Chief Physician for adults: **MUDr. Jan Zeman**

Matron for adults: **Bc. Irena Parezová**

Chief Physician for children: **MUDr. Ivan Peychl**

Matron for children: **Bc. Andrea Fajtová**

BASIC CHARACTERISTIC:

The First Medical Aid Service (FMAS) for children and adults is located in newly reconstructed premises on the ground floor of Building #2. It is a facility of the Prague City Council, with medical personnel and medical treatment provided by the Na Bulovce Hospital.



The ambulances which arrived at NBH in 2019

961

Pharmacy

Head: PharmDr. Ilona Kosařová

BASIC CHARACTERISTIC:

The Na Bulovce Hospital Pharmacy is a facility which provides comprehensive pharmaceutical services to the Hospital, to outpatient units and, when necessary, also to other medical institutions and their patients. The Hospital Pharmacy is a pharmacy of a higher type, with specialised sections. The Pharmacy is also a facility which participates in the education of students of pharmacology faculties and colleges.

SPECIALISED FACILITIES:

- Section of mass-produced medicinal preparations (HVLPP)
- Section of individually prepared medicinal preparations (IPLP) and aseptic preparations
- Dispensary I (next to the gatehouse)
- Dispensary II (in Pavilion #6, Institute of Radiation Oncology)
- Section for the preparation of cytotoxic solutions
- Control and analytical section, section of laboratory chemicals
- Section of medical equipment (PZT)
- Medical supplies shop (PZP)
- Wash room and storage of packaging and auxiliary material
- Administrative section

MAJOR EVENTS IN 2019:

- Almost full use of e-prescriptions (95%).
- On 9 February 2019, the EU Falsified Medicines Directive (FMD) came into force, and hence the Pharmacy must check and ensure that all packaging of the medicines it dispenses is genuine. This has resulted in a considerable additional workload for the pharmacists when receiving and dispensing prescription medicines, and in additional technology costs (modifications of software and hardware) and with that connected considerable financial costs. Pharmacists and pharmacy assistants attended regularly held technical seminars and lessons. As part of their preparation for attestation, they attended pre-attestation lessons, internships and received practical training. •



per cent of prescriptions were e-prescriptions

Department of Neonatology

Chief Physician: **MUDr. Martin Čihař**

BASIC CHARACTERISTIC:

The Department of Neonatology of the Na Bulovce Hospital is an Intermediary Perinatology Centre. For more information visit www.novorozencibulovka.cz

DEPARTMENT'S STRUCTURE:

- The Department of Neonatology has an Intensive Care Unit (ICU), Department for Physiological Infants and Outpatient Centre.
- The Department's Intensive Care Unit has 16 beds and annually provides care to around 250 prematurely born or ill babies. The ICU is fully equipped with modern technologies – incubators, breathing support instruments, monitors, a bedside laboratory and an ultrasound diagnostic instrument. The ICU is run by experienced neonatologists. Patient structure: prematurely born babies, infections, everyday neonatology issues, children transferred there from Perinatal Centres for final treatment.
- The Department for Physiological Babies has currently 24 beds, which is in proportion with the capacity of over 2,000 deliveries a year.
- The Outpatient Centre is used for scheduled check-ups of patients discharged from the Department of Neonatology. Examined there are also children who participate in research projects.

UNIQUE INSTRUMENTS

ACQUIRED:

The Department's equipment is of a high standard, medical technologies are being replaced on a continual basis. A new bedside laboratory was acquired which allows instantaneous examination of basic biochemical parameters from a tiny quantity of blood (capillary). Acquired were also instruments essential for conducting a new technique of examining babies in the delivery room, namely two special heated positioning cots providing temperature comfort to the newly born baby, and two monitoring instruments. New is also an instrument for the support of the newly born baby's breathing. Some of this equipment was acquired in collaboration with the LucyB Foundation of Lucie Borhyová.

MAJOR EVENTS IN 2019:

- Together with the Clinic of Gynaecology and Obstetrics, launched was a pilot project of the Ministry of Health to establish a Centre for Delivery Assistance. This project is unique in the method of care of the mother and child during the time after delivery, mainly involving a minimum separation of the mother and her baby.
- The Department of Neonatology remains the editorial office of the nationwide magazine *Neonatologické listy*.



Department of Neurology

Chief Physician: **MUDr. Juraj Modravý**

Matron: **Marie Dvořáková**

BASIC CHARACTERISTIC:

The Department of Neurology focuses on diagnostics and non-surgical treatment of disorders of the brain, spinal cord, peripheral nerves and musculature, including some special electro-physiological and ultrasonic diagnostic techniques. For this spectrum of illnesses the Department provides care to outpatients as well as to hospitalised patients. Available are 24 acute beds (of which 4 are ICU beds and 20 are acute care beds), an outpatient unit and electro-physiology laboratories. The Department also has a section of follow-up care with 5 neurology-oncology care beds.

The Department of Neurology of the Na Bulovce Hospital provides neurology care for approximately 300 thousand inhabitants of Prague 8 and Prague 9 municipalities.

Department of Ophthalmology

Chief Physician: **MUDr. Břetislav Brožek, CSc.**

Matron: **Bc. Zdeňka Formánková**

BASIC CHARACTERISTIC:

The Department of Ophthalmology of the Na Bulovce Hospital provides care in the full spectrum of modern ophthalmology. Among its main activities are operations of the cataract, full treatment of glaucoma, diagnosing and treating disorders of the retina. The Department of Ophthalmology has also reported excellent results in the treatment of disorders of the tear tract of children and adults, treated and operated there are all kinds of injuries of the eye and its surroundings. Based on many years of experience, provided at the Department is also conservative and surgical treatment of the squint of children and adults. Operated there are also patients with carcinoma of the eye and its surroundings, using the most gentle surgical technique. And last but not the least, the NBH Department of Ophthalmology offers to patients cosmetic surgeries of the eye lids and surrounding areas.

MAJOR EVENTS IN 2019:

- Building alterations of the One Day Surgery premises were quickly completed, which will significantly improve the preparation of patients for ambulatory surgeries. The will become fully functional after the required equipment has been installed.
- The examining techniques of the Department of Ophthalmology were considerably expanded by the acquisition of an

OCT-A instrument. This highly specialised device (in layman's terms an "optical CT") allows state-of-the-art examinations of the retina layers to be performed.

- The Department plans to extend the portfolio of intra-ocular lenses to the surgeries of cataract.

The extension of the team of intra-ocular microsurgeons has allowed the Department to broaden the spectrum of retina operations performed. •

Department of Child Surgery and Traumatology

Chief Physician: **MUDr. Karel Harvánek**

Matron: **Jana Výborná**

BASIC CHARACTERISTIC:

The Department of Child Surgery and Traumatology takes care of children of the age group 0 to 18 years. Treated there are problems covering the disciplines of general surgery, abdominal surgery, abdominoplasty, abdominal wall illness and defects of boys' genitals. An important part of the Department's activities is traumatology, specifically treating injuries of bones, joints and soft tissue.

SPECIALISED OUTPATIENT UNITS:

- Traumatology unit
- Urology unit
- Proctology unit
- Advisory centre for the problems of congenital nevi (multidisciplinary centre run together with the Clinic of Plastic Surgery and the Clinic of Dermatology)

NEW METHODS AND TECHNIQUES:

Elastic Stable Intramedullary Nailing (ESIN) technique for treating injuries of long bones
Modification of this technique used to treat fractures of short bones of hand and foot.
Extending the applications of vacuum therapy in the treatment of defects of the skin coverage, including complications of certain infectious exanthema diseases.

UNIQUE INSTRUMENTS ACQUIRED:

Polaris biostimulation laser (sponsorship donation by the Kapka naděje foundation).
Mobile traumatology bed for repositioning of fractures.

MAJOR EVENTS IN 2019:

- Organising and holding the 23rd Meeting of the Traumatology Division of the Czech Society for Paediatric Surgery (Serbia, October 2 to 4, 2019).
- Attending the 65th Congress of Czech and Slovak Child Surgeons in Kurdějov. The following papers were presented:
 - The Meckel's diverticulum after 5 years in our department, "every time a bit different";
 - Laparoscopic appendectomy which almost ended in death;
 - Unexpected complications following an ordinary appendectomy.
 - Co-participation in a multicentre study: Treatment of appendicitis of child patients – Status quo in 2017. Presented at the congress and published in magazine Rozhledy v chirurgii. •

Department of Function Diagnostics and Centre of Preventative Care

Chief Physician: **MUDr. Jan Zeman**

Matron: **Bc. Irena Parezová**

BASIC CHARACTERISTIC:

The Department of Function Diagnostics was established in the 1970s. Its main specialisation is non-invasive diagnostics and treatment of disorders of the heart and peripheral blood vessels. Another pillar of the Department's activities is performing preventative medical examinations, at present for already 14 contracted corporations. In both areas of activities can be evidenced a continuous growth in the number of procedures performed, especially of the most sophisticated ones.

SPECIALISED OUTPATIENT UNITS:

- Cardiology (two cardiologists plus one young doctor preparing himself for attestation in cardiology)
- Angiology (two angiologists plus one young doctor preparing herself for attestation in angiology)
- Internal and general medicine unit carrying out preventative examinations (two physicians with attestation in internal medicine and one physician with attestation in general medicine)
- A unique centre for examining micro-circulation (examinations of capillary diseases and blood supply disorders).

STATE-OF-THE-ART EQUIPMENT:

- Echocardiography examinations are carried out on a Vivid E 95 latest technology instrument.
- Ultrasonic triplex examinations of peripheral vessels are performed using certified instruments fitted with new probes. For examinations of arrhythmia, available are modern classic Holter small monitoring modules.
- Stress tests are conducted both in the form of bicycle ergometry and on a running belt.
- A sought-after examination technique are sloping surface tests.
- Unique additional equipment of the Micro-circulation Unit. A TcPO2 instrument for measuring tensile stress of oxygen in tissue was put into live operation, which assesses the ability of wounds and defects to heal, i.e. which tests peripheral blood supply. This technique suitably complements other state-of-the-art instruments for examining capillaries and micro-circulation, in particular capillaroscopy (both contact and contactless), pletysmography (including the latest ten-channel instrument), laser-doppler instruments (for contact and contactless examinations, covering the full sphere of interest, using a camera).

MAJOR EVENTS IN 2019:

- As has already become a tradition, as every year we took part in Angiology Days, at which new techniques of examining patients with disorders of the peripheral circulation were presented.
 - The nurses of the Department of Function Diagnostics presented at the Hospital seminar new examination techniques and acquainted the staffs of all NBH departments with their benefits.
 - The Department of Function Diagnostics has succeeded as a facility in which international multicentre clinical trials of the treatment with the new Orion 8 hypolipidemia will continue.
 - One of the perspective Department's doctors passed a nostrification examination and was registered to prepare herself for attestation in internal medicine.
- We signed up two new corporations interested in having preventative medical examinations of their employees performed. •

Department of Physiatry and Therapeutic Rehabilitation

Chief Physician: **MUDr. Hana Šťastná**

Chief Therapist: **Jitka Máchová**

BASIC CHARACTERISTIC:

The Department of Physiatry and Therapeutic Rehabilitation provides comprehensive rehabilitation care to outpatients as well as patients hospitalised at various departments and clinics of the Na Bulovce Hospital.

We provide continual rehabilitation, both in the discipline of internal medicine and surgery. Our patients receive therapeutic physical education, undergo physical therapy, hydrotherapy, swimming pool exercises, electromyography (EMG) examination, and patients with peripheral paresis receive selective stimulation. On a commercial basis we provide acupuncture, kinesio taping, massages and sauna.

The Department has physicians with attestation in rehabilitation and physical medicine, neurology and orthopaedy, physiotherapists, an ergotherapist, a clinical logopaedist and a masseur. As part of our education programme we provide training to general practitioners and continual practice for students of physiotherapy and ergotherapy.



Department of Hygiene and Epidemiology

Head: Mgr. Hana Bláhová, MBA

BASIC CHARACTERISTIC:

The main tasks of the Department of Function Diagnostics and Centre of Preventative Care is enforcing hygienic and anti-epidemic measures at the specific conditions of the Na Bulovce Hospital. Among the fundamental activities of the Department is the protection and support of health and healthy environment, prevention of the appearance and spreading of infections and widespread presence of diseases, in the form of a specific (health protection) and non-specific (health support) primary prevention. Part of its epidemiology surveillance conducted by the Department is monitoring the outbreaks and nature of infections, the causes and conditions of their origin and spread among the human population

(including infections transmitted to humans from animals), deploying the methods of their prevention, suppression and elimination or eradication. Based on the acquired findings, epidemiological measures are adopted and put into practice, both of a preventative and repressive character.

Activities concerning the hospital hygiene include also cooperation with various medical disciplines, aimed at preventing, diagnosing and treating diseases, and furthermore activities in the area of nutrition hygiene, communal hygiene and work hygiene. In addition, the Department's work activities require the knowledge of basic technical standards and technical procedures from a number of other fields.

SPECIALISED ACTIVITIES:

- Preventative activities: assessing the degree of risk, inspecting the compliance with correct principles and procedures concerning hygiene and epidemiology as defined by applicable legislation, in accordance with the latest scientific knowledge.
- Monitoring the epidemiological situation: monitoring hospital infections from the aspect of the presence of resistant microorganisms.
- Evaluating investment plans concerning construction and building alteration projects from the point of view of the principles of hygiene and epidemiology, and whether the equipment of the Hospital's medical units meets the requirements of applicable legislation.
- Inspecting the work conditions and environment vis-à-vis the assessed degree of risks, compiling a draft categorisation of works and dealing with suspected outbreaks of professional diseases.
- Conducting inspections concerning waste handling, bed linen, the quality of cleaning works, the quality of food and handling of food.
- Cooperating with the protection of public health authority when investigating nosocomial infections after reports of community infections and evidence of professional diseases, collaborating with other state authorities competent in the area of the protection of public health.
- Conducting inspections focused on the observance with regime measure, the principles of operation rules of the Hospital's departments and with the rules of internal documentation.

MAJOR EVENTS IN 2019:

- Motivation and prevention programme for pupils of the first level of elementary schools titled "The day of mummies with clean hands", together with students of the 3rd Medical Faculty of Charles University, specialisation General Nursing Care.
- Active and passive participation in lectures on the topic of hygiene and epidemiology.

Department of Clinical Pharmacy

Chief Clinical Pharmacist: PharmDr. Jana Gregorová

BASIC CHARACTERISTIC:

Systematic clinical pharmaceutical care at this Department is provided by five clinical pharmacists and three long-term interns. Incorporating this care into the services provided to patients is an evidence that the Hospital pays a very close attention to the rationale and safety of the pharmacotherapy administered to patients. Clinical pharmaceutical care is provided in close cooperation with the patient's attending physician. At the Department of Clinical Pharmacy, our emphasis is on a pro-active approach when

assessing the medical drugs administered to admitted patients, so that we can prevent medication problems. One of the Department's main tasks is determining the doses of drugs for patients with changed functions of elimination organs, assessing combinations of drugs, diagnosing and dealing with undesirable effects of the drugs, and interpreting plasmatic concentrations of drugs. The NBH Department of Clinical Pharmacy is an accredited facility for specialised preparation of other specialists in the field.

MAJOR EVENTS IN 2019:

That the Department cooperates well with the physicians at clinics and departments not only at the Na Bulovce Hospital is evidenced in particular by its publishing activities in the field of pharmacotherapy:

- Gregorová J, Holečková P, Žáková K. Management metabolic nežádoucích účinků everolimu u pacientů s renálním karcinomem [Managing undesirable metabolic effects of medical drugs]. Čas. Léč. Čes. 2019; 158: 300–305.

- Gregorová J, Holečková P. Hypertenze jako nežádoucí účinek léčiv [Hypertension as an undesirable effect of medical drugs] Klin Farmakol Farm 2019; 33(3): 25–28.
 - Staša J, Gregorová J, Pauk N. Altepláza v intrapleurální terapii: Co víme a nevíme? [Alteplase in intrapleural therapy: What do we know and what we don't?] Čas. Léč. Čes. 2019; 158: 295–299.
 - Sláma O, Sochor M, Závadová I. Paliativní péče v onkologii. [Palliative care in oncology] First edition Prague: Mladá fronta, 2019. 2019, pp 363–381. 978-80-204-4223-9.
- Gregorová J, Sochor M. Klinická farmacie a praktická farmakologie v paliativní péči. [Clinical Pharmacy and practical pharmacology in palliative care]. •



Department of Clinical Psychology

Head: PhDr. Jiří Los

BASIC CHARACTERISTIC:

The Department of Clinical Psychology of the Na Bulovce Hospital has a long tradition. Clinical psychologists and psychologists in the health care industry are well established in the Hospital's structure, and function both for adults and for child clientele. Their main work task is to provide psychological care to hospitalised patients and to outpatients. Psychological support is offered to clients on an individual basis, but also in the form of group therapies, for example to clients with anxiety. In the care of hospitalised patients, the support is focused on coping with the hospitalisation, communicating and receiving bad news, escorting, coping with the disease syndromes and teaching and testing cognitive skills.

MAJOR EVENTS IN 2019:

- In 2019, the Department launched a project of psychological care for employees, in which free therapeutic psychological support is offered individually as well as in the group form to all medical staff. Regular consultancy times have also been scheduled for other employees. The Department's psychologists offer employees for instance relaxation exercises and working with mental hygiene.
- As a follow-up to this psychological care, launched next year will be the system of psycho-social intervention service (SPIS) for medical staff of the Na Bulovce Hospital. The team of trained professional colleagues – peers – will be led by a woman psychologist.
- In 2019, the canistherapeutic care had to be interrupted due to the age of the therapeutic dog named Fanynka. •

Department of Pain Management

Head Physician: MUDr. Irena Pechanová

Matron: Jana Uhlířová

BASIC CHARACTERISTIC:

The Department provides care to outpatients who come at the recommendation of their attending physician, and counselling services to patients hospitalised in the Hospital. At present, two physicians work at the outpatient unit on a full-time basis, one neurologist on a part-time basis, and three nurses. Currently the outpatient unit treats mainly oncology patients for whom we are able, in cooperation with hospice associations, to arrange a quality medical care even in their home environment in the last phase of their lives. Used in the treatment of acute pain are mainly modern pharmacologic procedures including the administration of analgesics, but in some cases used are also invasive analgesic methods.

The Pain Control Outpatient Centre of the Na Bulovce Hospital was established in the 1970s as the first facility of its kind in the country. It was founded by the then Chief Physician MUDr. Dmitrij Miloschewsky, an advocate of targeted anaesthetics. The goal was to take care of patients with pervasive painful syndromes who did not respond to the standard analgesic treatment.

Department of Subsequent Care

Chief Physician: MUDr. Lenka Chomiaková

Matron: Mgr. Emílie Štirandová

BASIC CHARACTERISTIC:

The Department of Subsequent Care was established for the needs of the Na Bulovce Hospital at the recommendation and with the financial contribution of the Prague City Council, opening in May 2006. It is now an integral part of the Na Bulovce Hospital. The Department is situated on the ground floor of Pavilion #9, and has available for its patients 4 two-bed rooms, 4 four-bed rooms and one three-bed room.

The Department provides medical care to patients with a determined diagnosis in a stabilised state, who do not require an around-the-clock medical care. Admitted are adult patients, especially seniors, from other Hospital's departments who, although they have overcome the acute phase of their illness and no longer need care in an acute bed, their state of health does not allow them to be released to a home care. The aim of the medical, comprehensive nursing and rehabilitation care constitutes a maximum improvement of the patient's overall psychosomatic state. During their stay, at the Department, the patients' self-sufficiency in coping with daily chores is exercised, to make their return to the home environment easier. Together with the Department of Social Health, care is also provided to the patients after their release. Care of the patients released to return to their homes is provided for example by Homecare and other nursing services, depending on the individual needs of the patients and their families.



hours a day medical care is provided by
the Department of Subsequent Care

Department of Nutrition Theraputists

Head: **Michaela Maxová, DiS.**

From 1.12. 2019: **Ing. Bc. Diana Trapplová**

Matron: **Michaela Maxová, Dis.**

BASIC CHARACTERISTIC:

The nutrition therapeutists cooperate with doctors and sisters of the bed sections of all Hospital's departments and clinics, provide advice concerning nutrition and cooperate with the doctors at the nutrition unit. They also actively participate in the preparation of specialist seminars held in the Na Bulovce Hospital.

SPECIALISED

OUTPATIENT UNITS:

- Nutrition Outpatient Unit of the Department of Internal Medicine
- Nutrition Advisory Centre at the Department of Paediatry – advises how to deal with obesity of child patients, poor school grades and other eating-related problems
- Nutrition Advisory Unit at the Clinic of Surgery (advising patients before surgery, especially pre-operation nutrition preparation)
- Nutrition Advisory Unit at the Clinic of Radiation Oncology (advising oncology patients or members of their families concerning correct nutrition in oncologic diseases)

MAJOR EVENTS IN 2019:

Towards the end of 2019, the services provided by the Department of Nutrition Therapeutists were expanded by nutrition therapeutists and assistants in the catering services. •



Clinic of Orthopaedy

Head: **Prof. MUDr. Jiří Chomiak, CSc.**

Chief Physician: **As. MUDr. Radovan Kubeš, Ph.D.**

Matron: **Eva Fořtová**

BASIC CHARACTERISTIC:

Currently the Clinic covers practically the full spectrum of orthopaedic surgeries, from congenital disorders to geriatric injuries, plus specialised, by top-class personnel manned units of septic, spondylo and oncologic orthopaedy.

The Department of Spondylo Surgery also deals with the issues of treating spine impairments caused by metabolic diseases such as osteoporosis and, in particular, the treatment of osteoporotic fractures.

The Clinic also performs comprehensive surgeries and provides conservative care in the full spectrum of spinal diseases, except for intradural pathology.

However, generally the number of traumatology patients has been growing – especially geriatric cases, at the expense of our elective surgery, which affects in particular the Department of Sport Traumatology.

In 2019, the main emphasis was on further expansion of oncologic surgery under multidisciplinary cooperation, primarily with Oncology, Surgery and Plastic Surgery. The pivotal goal is to build a Centre of Oncoorthopaedic Surgery.

As one of the few orthopaedic clinics, the NBH Clinic of Orthopaedy performs operations of all categories of patients, including those who are regarded as high-risk or who have been turned down by other (especial private) institutions.

SPECIALISED OUTPATIENT UNITS:

Outpatient units by their content copy the departments: Child Orthopaedy (with special orientation on pes equinovarus, hip joint dysplasia, deformities and short limbs, neuromuscular disorders) and sonar examinations of infants' hip joints, septic, spondylo, traumatology, sport traumatology, alloplasty (including specialisation on female patients with haemophilia) and Oncology Unit which functions also as a consultancy centre through X-ray documentation sent to it by e-pacs. The Clinic also runs a Traumatology Control and Traumatology Observation outpatient units. And last but not the least, under the brand FIFA Medical Centre of Excellence, the Clinic takes care of young football players and, under a similar centre, also of skateboarders.

NEW METHODS AND TECHNIQUES:

- Front approach to total replacement of the hip joint – Direct anterior or modified O.C.M. approach.
- Pre-operation planning of implants using the MediCAD software application.
- Use of computer-controlled spatial external fixator – Taylor Spatial Frame, which allows a 3D correction of deformities.

MAJOR EVENTS IN 2019:

- MEDEVAC Jordan mission.
- Giving a course in sonography.
- Dividing the Department of General Orthopaedy (ORT 6) to two sub-departments:
 - Department of Oncoorthopaedy (headed by Assistant MUDr. Z. Matějovský CSc.),
 - Department of Orthopaedic Surgery (headed by Assistant MUDr. J. Lesenský M.D.).
- Change in the position of the Clinic's Head: Prof. MUDr. Pavel Dungal, DrSc., was replaced by Prof. MUDr. Jiří Chomiak, CSc.
- Maintaining full operation without closing any department in spite of the shortage of middle medical personnel thanks to the maximum commitment of the remaining personnel. •

Department of Otorhinolaryngology

Chief Physician: **MUDr. Tomáš Podlešák**

Matron: **Anna Ehlenová**

BASIC CHARACTERISTIC:

The Department specialises in diagnosing and treating ear, nose and throat (ORL) disorders. The Departments' physicians perform comprehensive diagnostics and treatment of ORL illnesses and head and neck disorders, including endoscopic examinations. Besides that, they perform also standard diagnostics and ORL surgeries and screening examinations of the hearing of newly born babies and children up to the age of 5 years.

SPECIALISED OUTPATIENT UNITS:

- Audiology unit
- Oncology ORL unit
- Vestibular unit
- Salivary gland unit
- Traumatology unit
- ORL for HIV Infections
- SAS Sleep apnoea syndrome unit
- Rhinology unit
- Endoscopy – epipharyngoscopy unit
- Otology unit
- Thyroid gland disorders unit



senses that help us to get to know the world:
eyesight, smell, taste, touch and hearing

Department of Pathology and Anatomy

Chief Physician: **MUDr. Zuzana Špůrková**

Chief Laboratory Technician: **Pavčina Rollová**

BASIC CHARACTERISTIC:

The Department's main facility is the Histology Laboratory which processes all histology and cytology material collected at clinical departments of the Na Bulovce Hospital. These services are provided also for several extramural subjects. A smaller part of the Department comprises an autopsy tract where pathology and anatomy autopsies are carried out in indicated cases.

SPECIALISED ACTIVITIES:

- Last year the Pathology Department examined 11,376 biopsy specimens, from which 71,585 tissue blocks for diagnostic purposes were produced and 102,504 histology slides were made. 1,111 cytology examinations we carried out.
- 104 pathology anatomy biopsies were performed, all including histology examination of tissues.
- Apart from standard colouring, the Department uses a broad panel of immunohistochemical methods. Available are approximately 80 antibodies of diagnostic as well as predictive character. The spectrum of works is dictated by the requirements of clinical departments and the number of surgical operations performed. Apart from classical examinations of fixed samples, performed there are also per-operation examinations involving examinations of the patient's tissues which were deeply frozen during the surgery.

MAJOR EVENTS IN 2019:

- In September 2019, the Laboratory successfully underwent an audit by the National Authorisation Centre for Clinical Laboratories (NASKL), "Supervisory Audit B2".
- In November 2019, the Department of Pathology and Anatomy organised and held the XXIst Slide Seminar at which presented were unusual and rarity cases examined at the Department. The co-organiser of this event was the Pathology Department of Masaryk Hospital in Ústí nad Labem. The seminar was attended by around 80 pathologists from across the Czech Republic.
- The Department's physicians co-authored several papers:
 - Konstantinova AM, Kyrpychova L, Nemcova J, Sedivcova M, Bisceglia M, Kutzner H, Zamecnik M, Sehnalkova E, Pavlovsky M, Zateckova K, Shvernik S, Spurkova Z, Michal M, Kerl K, Kazakov DV. Syringocystadenoma Papilliferum of the Anogenital Area and Buttocks: A Report of 16 Cases, Including Human Papillomavirus Analysis and HRAS and BRAF V600 Mutation Studies. Am J Dermatopathol. 2019 Apr;41(4):281-285.
 - Kinkor Z, Grossmann P, Špůrková Z, Věcková Z, Matějovský Z. Chondroblastoma-like primary malignant giant cell tumour of the humerus – a case report. Cesk Patol. 2019 Winter;55(1):42-47.
 - Horák P, Horová B, Koutníková H, Marvan J, Fulík J, Fanta J. Splenic abscess as a rare symptom of the extrapulmonary tuberculosis – case report. Rozhl Chir.2019 Summer;98(7):297-300. •

the number of
biopsy samples
analysed at NBH
in 2019

11,376

Department of Paediatrics

Chief Physician: **MUDr. Ivan Peychl**

Matron: **Bc. Andrea Fajtová**

BASIC CHARACTERISTIC:

The Department of Paediatrics provides care in the field of general paediatrics to outpatients as well as hospitalised patients. Every year we hospitalise between 1,300 and 1,500 patients and treat on average between 20 and 30 thousand children as outpatients. The Department has a higher level accreditation for training physicians, a process which takes place on a continual and intensive basis. The Department also provides on a continual basis internships for students of several medical faculties.

SPECIALISED OUTPATIENT UNITS:

- Acute paediatrics unit
- Chronic paediatrics unit (which includes ultrasound examinations of brain through a large fontanelle in infants)
- Child nephrology unit
- Child endocrinology unit (which includes ultrasound examinations of thyroid gland)
- Child pulmonology unit (which includes determining the level of chlorides in perspiration for the purposes of diagnosing cystic fibrosis, tracheobronchoscopic examinations of children with chronic respiratory disorders, examinations of gastroesophageal reflux using the pH-metry technique with impedance and impulse oscillometry).
- Child gastroenterology unit
- Child cardiology and echocardiography and ambulatory blood pressure monitoring unit
- Allergology and clinical immunology unit
- Child neurology unit
- Unit for the treatment of infantile hemangioma

MAJOR EVENTS IN 2019:

- MUDr. Alexandra Lišková, the physician who founded and developed the Paediatrics Department's Child Gastroenterology Unit, was awarded a diploma by the Czech Society for Paediatrics for her lifelong contribution to paediatrics.
- Publication activities: Peychl I., Hajček J., Chomiak J., Lami J. Significance of MRI in the diagnosis of pelvic osteomyelitis in children – 2 case reports. 9th Europaediatrics, poster. •





Clinic of Radio Diagnostics

Chief Physician: **MUDr. Martin Mašek**

Matron: **Bc. Petra Kvěšková**

BASIC CHARACTERISTIC:

The RDG Clinic performs a full spectrum of examinations across the discipline. The Clinic has a mammography screening station, two CT stations, one magnetic resonance station and three ultrasound stations. The RTG Clinic is spread in practically all clinical pavilions.

MAJOR EVENTS IN 2019:

- All existing ultrasound test instruments were replaced with new Cannon instruments. •

Department of Radio Physics

Head: **Mgr. Pavla Nováková**

Matron: **Mgr. Pavla Nováková**

BASIC CHARACTERISTIC:

The Department provides services in the discipline of radiology physics and radiation protection to the Institute of Radiation Oncology of the Na Bulovce Hospital and to the 1st Medical Faculty of Charles University, to the Clinic of Radio Diagnostics and to other Na Bulovce Hospital's departments and units which use in their work sources of ionising radiation. Working at the Department is non-medical personnel from the disciplines of radiology physics, radiology technology and biomedical engineering.

The Department designs irradiation plans for patients and checks individual distribution of the

doses in the patient's body in order to guarantee quality and safe doses of the radiation treatment of oncologic patients. In radio diagnostics, the DRP's main task is to maintain the instruments in perfect condition, guarantee correct examination and therapy techniques in order to optimise the radiation protection of patients and to obtain high-quality images. The Department of Radio Physics is an accredited facility for postgraduate training of radiology physicists and radiology assistants from all over the country, and provided there is also undergraduate theoretical and practical teaching of these disciplines.

NEW METHODS AND TECHNIQUES:

- Expanding the frequency and in-vivo dosimetry methods (direct dosimetry on the patient) for irradiation techniques with modulated intensity of the beam, using a detector built-in directly in the arm of a linear accelerator.
- The Department participated in introducing an irradiation technique with controlled respiration, the so called respiratory gating.

UNIQUE INSTRUMENTS ACQUIRED:

- Installing and putting into operation new EpiGray software system for in-vivo dosimetry from French company Dosisoft, which uses a built-in accelerator detector. The NBH Department of Radio Physics is one of few test facilities for FFF beams and this software in Europe.
- Installing and putting into operation new ThinkQA software suite from French company Dosisoft for patient-specific QA, that provides an independent secondary MU calculation as

well as EPID based solutions for pretreatment beam verification and in-vivo dosimetry all at once.

MAJOR EVENTS IN 2019:

- The new verification system Mosaiq was connected also to older linear accelerators, which was a very demanding process for the RFO staff, but which also changed the work procedure of radiology assistants and radiation oncologists at the Department of Radiation Oncology.

Department of Social Health

Head: Vladimíra Kvapilová

BASIC CHARACTERISTIC:

Social work in the health care industry is a discipline where medical care overlaps with social welfare work, and which is an important component of the comprehensive care of patients. It is an integral part of the therapeutical and nursing process. The main goal of the Hospital's Social Health Department is to help patients and their loved ones to cope with the negative impacts of their illness, being it due to their age, loss of self-sufficiency, loneliness, dependence or inadequate social support. Social work is performed in close interdisciplinary cooperation with medical personnel and the patient's family, but also in collaboration with relevant authorities and health care facilities.

The assignment of the social health team is to improve the quality of the patients' life by releasing them to the home environment provided their state of health allows it, or by placing them to a suitable social or medical institution with corresponding rehabilitation facilities.

Social health services in the Hospital are performed by seven social workers who visit the clinics assigned to them. The workers' assignments are made to be as suitable as possible from the point of view of the patients' problems. The services are provided against the request of the patient's attending physician, the patient him or herself, or the patient's relatives.

SPECIALISED ACTIVITIES:

- Medical services (Home-Care, hospices, homes for the terminally ill, old age care centres, rehabilitation institutions)
- Social care services (nursing services, day care centres, senior homes, children centres)
- Social prevention services (asylum homes, care centres, hostels, contact centres)

MAJOR EVENTS IN 2019:

- Very positively can be assessed the cooperation with home care agencies which take over patients from the NBH Department of Social Health almost immediately.
- Active participation in conferences for non-doctor medical personnel.

In 2019, an average of 20 to 25,000 children were treated in the NNB's pediatric outpatient clinics

25,000

Emergency Admissions

Chief Physician: **MUDr. Jakub Bala**

Matron: **Bc. Svatopluk Žáček**

BASIC CHARACTERISTIC:

The Department of Emergency Admissions provides care to critically ill or injured patients whose state requires urgent diagnostic and commencement of treatment as quickly as possible. The NBH Emergency Admissions is one of the most modern facilities of this kind in the Czech Republic. Establishing this facility was an important step towards the reopening of a Traumatology Centre at the Na Bulovce Hospital.

The Emergency Admissions capacity is seven fully monitored beds, of which three include lung ventilation. Available there is also one bed which meets all requirements on the epidemiologic hygiene regime of a potentially infectious patient. Part of the facility is a fully equipped

operating theatre allowing any operation to be carried out to save the patient's life. The facility, situated on the second floor of Building #13, is run by Anaesthesiology and Resuscitation and Emergency Admissions own physicians together with with doctors from the Clinic of Surgery and external doctors. Non-doctor personnel comprises nurses, paramedics and orderlies.

Emergency Admissions also participates in practical teaching of paramedic students. Planned for the future in collaboration with medical faculties is to provide educational courses in the disciplines of anaesthesiology, resuscitation and intensive medicine for nurses.

MAJOR EVENTS IN 2019:

- The Department of Emergency Admissions commenced operation on 1 January 2019, and until the end of October functioned as a stand-alone department, but in November 2019 was merged with the Department of Anaesthesiology and Resuscitation.
- In 2019, Emergency Admissions treated 9,006 patients, making it an average of about 25 patients a day, with an anomaly in November, when the average number of daily treated patients climbed to around 35. •

Department of Urology

Chief Physician: **MUDr. Otakar Mareš**

Matron: **Hana Trejbalová**

BASIC CHARACTERISTIC:

The Department of Urology of the Na Bulovce Hospital is a separate department. It was the first separate urology department in the country, opening for the general public in 1931.

The ward section of the Department of Urology has 24 beds, i.e. it forms one full acute ward station with one three-bed post-surgery room equipped with basic monitors, and with standard one- and two-bed patient rooms.

The outpatient section has five separate examination rooms, a reception and a waiting room for patients. It is divided into acute and chronic section, with the chronic section providing specialised care for patients with oncology problems, urolithiasis, obstructive illnesses of the urinary tract, urine incontinence, infectious

diseases of the urinary tract, andrologic problems and congenital defects of the urinary apparatus. Dispensed there are patients with penis, prostate gland, urinary bladder, kidney and adrenal gland tumours.

The operating tract has separate theatres for endoscopic surgeries and a theatre for open and laparoscopic surgeries with supporting facilities. Performed there is a full spectrum of urological surgeries, open, endoscopic, laparoscopic operations and mini-invasive operations.

The Department provides comprehensive urological care to patients from a broad catchment area of Prague, the Central Bohemia Region and many patients from across the Czech Republic.

NEW METHODS AND TECHNIQUES:

- Introducing a new mini-invasive surgery procedure in the treatment of stress incontinence, introducing biopsies of the prostate gland using the technique of MRI fusion and expanding laparoscopy in operations of urethral strictures.

UNIQUE INSTRUMENTS ACQUIRED:

- In 2019, the Department acquired a new laparoscopic tower with a 3G display.
- It also acquired a Ho:YAG laser for treating urolithiasis in the urinary tract and kidneys, tumours in the urinary tract and benign hyperplasia of the prostate gland.
- Other novelties in the Department's equipment is a new technology for disintegration of urolithiasis – ShockPulse, technology for post-operation diagnostics of urinary bladder tumours – NBI, new haemocoagulation unit for harmonic scalpel, new ultrasound instruments of a higher class for performing biopsies of the prostate gland using the method of MRI fusion or targeted paracentesis, including a laparoscopic probe.
- The Department also acquired four new flexible cystoscopes and ureterorenoscopes for endoscopic diagnostics and treatment of illnesses of the urinal bladder, urinal tract and hollow kidney organs.

MAJOR EVENTS IN 2019:

- Preparing for being granted the status "Oncourology centre" by enrolling two physicians into a preparation programme for attestation in oncourology, and by acquiring additional medical technologies.
- Stabilising middle medical personnel with the aim to reopen the Department's ICU. We almost managed to fill all the recommended positions of doctors and nurses. •

Institute of Radiation Oncology

Head: Prof. MUDr. Luboš Petruželka, CSc.

Chief Physician: MUDr. Miloslav Pála, Ph.D., MBA

Matron: Mgr. Věra Čermáková



BASIC CHARACTERISTIC:

The Institute of Radiation Oncology of the 1st Medical Faculty of Charles University and Na Bulovce Hospital is the largest institute of the Comprehensive Oncology Centre in Prague. The Institute is equipped with four linear accelerators which allow us to use for the patients highly comfortable radio therapy techniques and to irradiate the whole body of patients with haematologic malignancies. The Institute also has instruments for performing brachytherapy, microwave hyperthermia and non-tumour radio therapies.

The systemic oncology therapy is applied to patients in a care centre equipped with modern technologies including “cooling caps” to prevent the patients from losing their hair during chemotherapy. The hospital section has 60 beds, hospitalised in which are patients whose overall state of health does not allow them to use the ambulatory form of therapy. The Institute has accreditation for teaching both oncology disciplines, and participates in a number of multi-centre clinical trials.

SPECIALISED OUTPATIENT UNITS:

- The Institute’s physicians work at 10 outpatient centres, including specialised centres for treating patients with breast, head and throat tumours, gynaecology centres and a nutrition centre.

NEW METHODS AND TECHNIQUES:

- Stereotactic radiation therapy which allows high doses of radiation to be administered in a smaller number of fractions for localised tumour focuses.
- Respiratory gating which allows irradiation in a certain part of the breathing cycle while being more gentle to healthy issues.

UNIQUE INSTRUMENTS ACQUIRED:

- In 2019, the Institute launched a full clinical operation using two new Erehta Versa HD linear accelerators and a new Flexitron brachyradiotherapy radiation generator and a new Siemens planning CT.

MAJOR EVENTS IN 2019:

- Launching a full operation of the newly installed radiation equipment.
 - Opening a room for communication with patients and their relatives (through the Chantal Poullain Foundation).
 - The Institute’s physicians participation in the Ministry of Health Open Door.
 - The Institute’s physicians participation in the “Sama doma” [Alone at home] TV programme which discussed oncology issues.
- Visit by the prime minister and the minister of health. •



Institute of Forensic Medicine

Head: **MUDr. Petr Tomášek**

Chief Physician: **MUDr. Jana Markvartová**

Matron: **Bc. Michaela Kalčíková Hisemová**

BASIC CHARACTERISTIC:

The Institute of Forensic Medicine of the 2nd Medical Faculty of Charles University and Na Bulovce Hospital provides in a single-shift operation services to courts, mainly by performing autopsies and toxicological examinations of diseased persons from Prague 3, 5, 6, 7 and 9, but also from some districts of the Central Bohemia Region, namely Prague-West, Mělník, Mladá Boleslav and Nymburk, but also to the Na Homolce Hospital, Motol University Hospital and, on an ad hoc basis, to the Institute of Clinical and Experimental Medicine (IKEM). The Institute also performs for the Czech Republic Police on a non-stop ambulatory basis through the so called journal doctor examinations of victims of violent criminal acts, medical examinations to establish

the fitness of apprehended persons to undergo interrogation and/or to be held in the cell of preliminary detention, collects biological material to prove the presence of alcohol and other narcotic and psychotropic substances. An integral part of the Institute of Forensic Medicine of the 2nd Medical Faculty of Charles University and Na Bulovce Hospital is a toxicology laboratory which performs for the Czech Republic Police toxicological examinations of biological material collected from the bodies of deceased persons as well as from clients of the journal doctor ambulatory service and from patients of the Na Bulovce Hospital. The Institute also functions as a teaching centre of forensic medicine for undergraduate students of general medicine of the 2nd Medical Faculty of Charles University.

SPECIALISED OUTPATIENT UNITS:

- Ambulatory service of a journal doctor for the Czech Republic Police.

NEW METHODS AND TECHNIQUES:

- Development and validation of quantitative methods for determining the presence of intoxicating and psychotropic substances in blood/serum, which have been legislatively defined in Government Decree No. 41/2014.
- Development of new analytical methods for proving the presence of unknown substances in untraditional biological matrices such as hair, newly born baby's first stool or vitreous body or entomological material.

- Proving the presence of new synthetic drugs ("designer drugs") and other "non-traditional" abuse of narcotic and psychotropic substances.
- Collecting biological material from the bodies of deceased persons for virological testing, in particular the presence of RNA influenza viruses (even after longer post-mortal interval) – in cooperation with the National Reference Laboratory of the State Medical Institute.

MAJOR EVENTS IN 2019:

- MUDr. Michal Beran, Ph.D., after 19 years of active service, retired from the position of Chief Physician. The proceedings to select a new Chief Physician was won by MUDr. Jana Markvartová from the Institute of Forensic Medicine of the 2nd Medical Faculty of Charles University and Na Bulovce Hospital.
- Three doctors from the Institute of Forensic Medicine obtained specialisation qualification in the field of forensic medicine. One toxicologist obtained specialisation qualification in the field of forensic toxicology, thus achieving the full qualification in the discipline.
- Active and passive participation in specialist educational events held under the auspices of the Czech Society of Forensic Medicine and Forensic Toxicology of the Czech Medical Society of Jan Evangelista Purkyně and the Institute of Postgraduate Education in Medicine and the Czech Chamber of Medicine.
- Publication activities:
 - Jiřincová H., Dohnalová P., Krsek D., Nagy A., Nováková L., Tomášek P., Markvartová J., Večeřová J., Kyncl J., Havlíčková M., Influenza as a Cause of Sudden Death – The experience from the NRL for influenza, the Czech Republic, a poster for an international conference in Singapore (Options for the Control of Influenza), in collaboration with the National Reference Laboratory for Influenza and Non-influenza Respiratory Diseases of the State Medical Institute.
 - Tomášek P., Tonar Z., Grajciarová M., Kural T., Turek D., Horáková J., Pálek R., Eberlová L., Králíčková M., Liška V., Histological mapping of porcine carotid arteries – An animal model for the assessment of artificial conduits suitable for coronary bypass grafting in humans, *Annals of Anatomy* (2019).

HUMAN RESOURCES INDICATORS II.

1931

the number of women employed at NBH in 2019



Technical operation issues

- In 2019, the NBH management made an important decision to insource cleaning and catering services.
- Cleaning works using own employees commenced on 1 October 2019. The reason for this decision was to increase the work quality and eliminate the contractor's pressure on considerable increase in the price.
- Effective from 1 December 2019, catering and meal distribution, including to the Bohnice Psychiatric Hospital, has also been provided by the NBH's own employees. Approximately 8 thousand meals are prepared every day.
- An attention was also paid to cost optimisation, especially by calling for tenders and awarding contracts for the supply of services and commodities.
- In respect of medical equipment, the largest volume of funds, around CZK50 million, was spent on the purchases of instruments for oncogynaecology (a mammography instrument, an ultrasound examiner etc.), and on an X-ray instrument for orthopaedy.
- In respect of real estate infrastructure, commenced was the construction of natal suites, build was a central parking lot and carried out were minor maintenance works.

Human resources issues

- In 2019, NBH signed with the three traded unions active at the Hospital, a new collective agreement for the next two years.
- In the issues concerning human resources, the emphasis was on stabilising the current personnel, both by offering adequate salaries and benefits, as well as by improving the work environment.
- The main tasks in the area of recruitment in 2019 concerned the project of insourcing the Hospital cleaning services (hiring employees). Insourced were also catering services and distribution of meals not only within the Na Bulovce Hospital, but also for the Bohnice Psychiatric Hospital.
- In the area of remuneration, introduced were the principles of employees having a financial interest in the accomplishment of major goals in the Hospital operation, in the form of predetermined promise, conditioned upon meeting predetermined indicators.



Main NBH human resources data as of 31. 12. 2019:

- At the end of the year, the Hospital was employing in total 2,478 employees, of whom 547 were men and 1,931 women, in terms of full-time equivalents 2,263.97 people - of which 491.62 were men and 1,772.36 women.
- In this respect it is necessary to point out that included in these numbers are also employees of the Pea Spa Toušeň (71 beds) and the Spa Sanatorium Mánes in Carlsbad (226 beds).

II. HUMAN RESOURCES INDICATORS

STRUCTURE OF NBH EMPLOYEES BY CATEGORY IN TERMS OF PHYSICAL PERSONS

	PHYSICAL PERSONS			FULL-TIME EQUIVALENTS		
	TOTAL	OF WHICH MEN	OF WHICH WOMEN	TOTAL	OF WHICH MEN	OF WHICH WOMEN
Physicians	506	209	297	408.752	163.857	244.895
Pharmacists	25	3	22	24.563	3	21.563
Nurses	839	14	825	759.725	13	746.725
Paramedics (57-571)	220	29	191	207.15	27.587	179.563
Paramedics (522-528)	68	13	55	60.376	9.413	50.963
Paramedics (529-542)	298	104	194	290.113	102.662	187.451
Orderlies	13	4	9	10.5	1.8	8.7
White collar	308	92	216	303.969	91.719	212.25
Blue collar	201	79	122	198.837	78.587	120.25

839

the number of nurses working at NBH in 2019

The problems with the shortage of medical personnel are from the time perspective compounded by the unfavourable age structure. Among physicians, missing in particular is the middle age group, and among nurses those in the age group up to 40.

	PHYSICIANS	PHARMA-CISTS	NURSES	PARAMEDICS (57-571)	PARAMEDICS (522-528)	PARAMEDICS (529-542)	ORDERLIES	WHITE COLLAR	BLUE COLLAR
19 years and less	0	0	0	1	0	3	0	0	2
20 to 30 years	119	12	62	62	10	31	4	38	23
31 to 40 years	137	3	145	40	22	57	1	57	27
41 to 50 years	89	4	319	44	13	95	2	82	52
51 to 60 years	89	5	218	47	16	85	5	89	67
60 years and more	93	1	95	26	7	27	1	42	30

GENDER STRUCTURE OF NBH EMPLOYEES

	TOTAL	OF WHICH MEN	OF WHICH WOMEN
19 years and less	6	0	6
20 to 30 years	361	87	274
31 to 40 years	489	153	336
41 to 50 years	700	115	585
51 to 60 years	600	101	499
60 years and more	322	91	231



93 doctors are older than 61 years

II. HUMAN RESOURCES INDICATORS

Of the total number of employees, approximately 10% are foreigners.
The table below shows the data for the countries they come from

	PHYSI- CIANS	PHARMA- CISTS	NURSES	PARAMEDICS (57-571)	PARAMEDICS (522-528)	PARAMEDICS (529-542)	ORDER- LIES	WHITE COLLAR	BLUE COL- LAR	TOTAL
Total	506	25	839	220	68	298	13	308	201	2478
Czech Republic	419	23	786	203	66	274	13	299	144	2227
Foreign	87	2	53	17	2	24	0	9	57	251
EU + ECA	72	2	42	13	2	15	0	8	9	163
Bulgaria	1								1	2
Italy				1						1
Hungary									2	2
Germany	1									1
Poland	2					1			1	4
Romania			1						1	2
Slovakia	68	2	41	12	2	14		8	4	151
NON-EU ECA	15	0	11	4	0	9	0	1	48	88
Belarus	1								2	3
Botswana	1									1
Republic of Guinea			1							1
Israel	1									1
Moldavia									2	8
Niger	1									1
Russia	2		2			1			2	7
Ukraine	7		8	4		8		1	42	70
Uzbekistan	2									2

EDUCATION STRUCTURE OF NBH EMPLOYEES

EDUCATION ATTAINED	TOTAL	OF WHICH MEN	OF WHICH WOMEN
Basic education	175	41	134
Lower secondary education	6	1	5
Lower technical secondary education	5	3	2
Secondary technical education with apprenticeship certificate	237	101	136
Secondary or technical secondary education without high school diploma or apprenticeship certificate	37	3	34
Full secondary general education	64	12	52
Full secondary technical education with apprenticeship certificate and high school diploma	14	7	7
Full secondary technical education with high school diploma (without apprenticeship certificate)	969	89	880
Higher technical education	93	12	81
Bachelor's degree	185	24	161
Master's degree	671	237	423
Doctorate	22	17	5

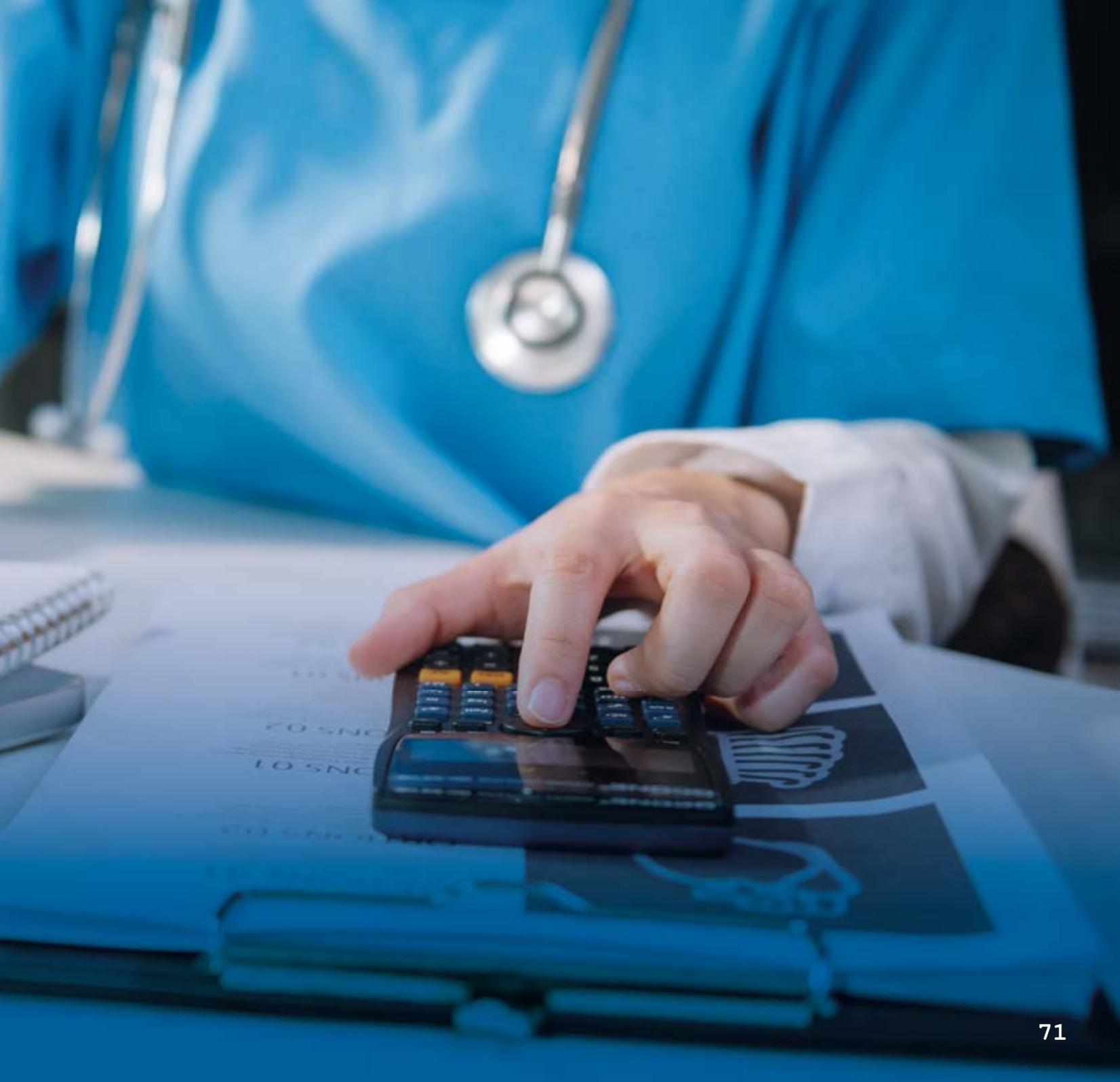
In spite of the significant limitations in medical facilities, the NBH endeavours to employ citizens with health handicaps.

LIMITATION	TOTAL	PARTIAL INVALID	FULL INVALID	NO INVALID PENSION
Person with severe health handicap	10	3	6	1
Person with health handicap	19	18	0	1
Person with slight health handicap	5	6	2	1
	11	10	1	0
GRAND TOTAL	46	36	7	3

FINANCIAL PART III.

506

the number of physicians employed by NBH in 2019



2019 BALANCE SHEET
ASSETS

	BRUTTO 2019	CORRECTION 2019	
TOTAL ASSETS	4,408,138,831	2,088,287,038	
PERMANENT ASSETS	3,317,861,410	2,070,953,716	
INTANGIBLE FIXED ASSETS	43,821,304	39,211,557	
Software	34,032,113	32,026,061	
Low-value non-tangible assets	7,185,496	7,185,496	
Non-tangible fixed assets in progress	2,603,695	0	
TANGIBLE FIXED ASSETS	3,274,040,106	2,031,742,159	
Land	43,966,812	0	
Objects of cultural value	1,215,656	0	
Buildings	1,558,495,788	750,580,736	
Stand-alone fixed tangible assets	1,410,561,041	,1,051,317,281	
Low-value tangible fixed assets	229,844,142	229,844,142	
Tangible fixed assets in progress	29,956,667	0	
CURRENT ASSETS	1,090,277,421	17,333,322	
INVENTORIES	48,997,616	0	
Material in stock	34,899,019	0	
Material in transit	23,810	0	
Merchandise in stock	14,074,787	0	
SHORT-TERM RECEIVABLES	590,562,791	17,333,322	
Clients	330,835,650	17,017,334	
Short-term deposits paid	7,621,037	0	
Other receivables from core activity	1,492,213	315,988	
Receivables from employees	859,483	0	
Value added tax	5,602,211	0	
Deferred costs	67,333,520	0	
Deferred income	441,860	0	
Estimated income	153,623,371	0	
Other short-term receivables	22,753,446	0	
SHORT-TERM FINANCIAL ASSETS	450,717,014	0	
Other current accounts	253,355,437	0	
Current account	130,083,605	0	
Current account FKSP	64,635,552	0	
Postal and revenues stamps	714,637	0	
Petty cash	1,927,783	0	

	NETTO 2019	NETTO 2018
	2,319,851,793	1,921,170,460
	1,246,907,694	1,263,339,816
	4,609,747	2,805,506
	2,006,052	2,347,741
	0	0
	2,603,695	457,765
	1,242,297,947	1,260,534,310
	43,966,812	43,872,224
	1,215,656	1,214,357
	807,915,057	845,518,314
	359,243,760	363,834,176
	0	0
	29,956,667	6,095,239
	1,072,944,099	657,830,644
	48,997,616	42,823,359
	34,899,019	27,874,939
	23,8010	251,390
	14,074,787	14,697,030
	573,229,469	321,297,161
	313,818,316	282,495,442
	7,621,037	5,903,342
	1,176,225	1,319,702
	859,483	793,755
	5,602,211	5,792,376
	67,333,520	14,182,379
	441,860	734,564
	153,623,371	10,040,789
	22,753,446	34,811
	450,717,014	293,710,125
	253,355,437	168,750,247
	130,083,605	73,429,237
	64,635,552	50,430,188
	714,637	64,959
	1,927,783	1,035,493

2019 BALANCE SHEET
LIABILITIES

	CURRENT	
TOTAL LIABILITIES	2,319,851,793	
SHAREHOLDER'S EQUITY	239,554,613	
ACCOUNTING UNIT'S ASSETS AND ADJUSTMENT ITEMS	1,091,336,032	
Accounting unit's name	991,400,534	
Transfers for acquisition of fixed assets	241,600,389	
Valuation differences at first use of the method	(679,172)	
Corrections of previous periods	(140,985,718)	
ACCOUNTING UNIT'S FUNDS	147,121,661	
Cultural and social needs fund (FKSP)	62,047,239	
Reserve fund from other titles	7,455,465	
Assets reproduction fund, investment fund	77,618,957	
PROFIT/(LOSS)	(998,903,080)	
Profit/(Loss) in current financial year	(253,174,023)	
Profit/(Loss) in previous financial years	(745,729,057)	
LOANS AND OVERDRAFTS	2,080,297,179	
RESERVES	10,000,000	
Reserves	10,000,000	
LONG-TERM LIABILITIES	680,364,050	
Other long-term liabilities	680,364,050	
SHORT-TERM LIABILITIES	1,389,933,130	
Suppliers	1,041,067,913	
Short-term deposits received	508,519	
Employees	88,840,852	
Other liabilities to employees	988,576	
Contributions to social security	36,642,154	
Contributions to health insurance	16,249,261	
Other taxes, levies and miscellaneous similar duties	18,315,287	
Value added tax	0	
Liabilities to selected central government institutions	1,152,965	
Short-term deposits received for transfers	89,500	
Deferred costs	23,575,145	
Estimated current liabilities	151,345,917	
Other short-term liabilities	11,157,040	

	PREVIOUS
	1,921,170,460
	451,726,947
	1,134,043,225
	986,009,235
	221,424,938
	(679,172)
	(72,711,775)
	63,412,779
	49,645,607
	7,580,190
	6,186,982
	(745,729,057)
	(259,953,946)
	(485,775,112)
	1,469,443,513
	6,000,000
	6,000,000
	233,213,926
	233,213,926
	1,230,229,587
	961,240,417
	210,916
	79,003,613
	675,938
	32,574,137
	14,394,543
	16,076,521
	0
	5,880,199
	0
	23,538,579
	93,716,916
	2,917,807

2019 PROFIT
AND LOSS
STATEMENT
INCOME

	CURRENT FINANCIAL YEAR	
	CORE ACTIVITY	ECONOMIC ACTIVITY
TOTAL INCOME	3,494,925,741	29,891,090
INCOME FROM ACTIVITIES	3,418,798,381	29,891,090
Income from sales of services	3,145,130,735	16,731,131
Income from leases	9,346	13,159,959
Income from merchandise sold	184,193,506	0
Income from own activities	0	0
Fines and interest for defaults	11,646	0
Other fines and penalties	0	,0
Income from sold material	1,150,268	0
Income from sold tangible assets except land	0	0
Drawings from funds	1,175,631	0
Other income from activities	87,127,249	0
FINANCIAL INCOME	135,934	0
Interest	0	0
Profits from exchange rate differences	135,934	0
INCOME FROM TRANSFERS	75,991,426	0
Income of selected central government institutions from transfers	75,991,426	0
Profit/(Loss) before tax	(259,598,808)	6,424,789
Profit/(Loss) in current financial year	(259,598,808)	6,424,789

	PREVIOUS FINANCIAL YEAR	
	CORE ACTIVITY	ECONOMIC ACTIVITY
	3,053,063,667	23,438,898
	3,004,117,674	23,438,898
	2,740,820,393	9,360,687
	0	14,078,211
	187,897,439	0
	2,614	0
	152	0
	1,200	0
	1,180,645	0
	0	0
	1,505,607	0
	72,709,623	0
	142,311	0
	58	0
	142,253	0
	48,803,682	0
	48,803,682	0
	(263,842,372)	3,888,427
	(263,842,372)	3,888,427

2019 PROFIT AND
LOSS STATEMENT
COSTS

	CURRENT FINANCIAL YEAR	
	CORE ACTIVITY	ECONOMIC ACTIVITY
TOTAL COSTS	3,754,524,549	23,466,305
COSTS FROM ACTIVITIES	3,740,612,635	23,466,305
Consumption of materials	1,183,718,907	0
Consumption of energies	77,727,938	9,978,092
Activation of current assets	144,540,562	0
Repairs and maintenance	-2,271,031	0
Travel expenses	37,090,295	8,939,947
Entertainment expenses	1,831,135	,0
Other services	574,179	0
Wages and salaries	188,003,501	157,318
Mandatory social security insurance	1,370,635,070	0
Other social security insurances	459,920,833	0
Mandatory social expenses	5,595,114	0
Other social expense	26,908,152	0
Road tax	0	0
Property tax	69,399	0
Other taxes and levies	45,299	0
Fines and interest for default paid	1,969,354	0
Other fines and penalties paid	3,807,950	0
Material sold	3,616,159	0
Shortfalls and damages	516,208	0
Depreciation/amortisation of fixed assets	291,995	0
Creation and clearing of reserves	100,511,458	4,390,949
Creation and clearing of adjustment entries	4,000,000	0
Costs of written-off receivables	3,292,182	0
Costs of low-value fixed assets	1,560,822	0
Other costs of activities	15,692,620	0
FINANCIAL COSTS	110,964,534	0
INTEREST	13,911,914	0
Foreign exchange losses	13,230,418	0
Other financial costs	34,063	0
Ostatní finanční náklady	647,433	0

	PREVIOUS FINANCIAL YEAR	
	CORE ACTIVITY	ECONOMIC ACTIVITY
	3,316,906,039	19,550,471
	3,312,379,065	19,550,471
	1,093,923,921	0
	67,291,938	9,184,710
	151,776,413	0
	-1,538,642	0
	33,513,122	5,418,666
	1,396,973	0
	486,721	0
	201,484,808	156,970
	1,204,676,561	0
	405,541,776	0
	4,913,447	0
	23,320,910	0
	0	0
	66,727	0
	45,299	0
	183,398	0
	2,055,255	0
	778	0
	496,283	0
	197,269	0
	77,915,063	4,790,126
	6,000,000	0
	1,202,059	0
	3,533	0
	14,205,916	0
	23,219,538	0
	4,526,973	0
	3,558,344	0
	175,898	0
	792,732	0

OTHER FACILITIES IV.



V lázních Mánes v Karlových Varech
se navýšil počet pacientů v roce 2019
o 36% oproti roku minulému

36

Balneology Care Division

Manager: **Ing. Martina Šimůnková**

Chief Physician: **MUDr. Bohumil Svášek**

The Balneology Care Division runs two spas:
Spa Sanatorium Mánes in Carlsbad and Pea Spa Toušeň.

Spa Sanatorium Mánes in Carlsbad

Matron: **Marcela Boučková**

BASIC CHARACTERISTIC:

The Spa Sanatorium Mánes has been part of the Na Bulovce Hospital since 2018. Treatment administered in the Spa is based on the therapeutical properties of the local unique mineral water in combination with nutrition diet, therapeutical rehabilitation and other modern therapeutical methods. The Spa's accreditation covers three groups of illnesses typical for the balneology treatment administered in Carlsbad spas: disorders of the gastrointestinal tract, diseases and disorders of metabolism and the endocrine system, and disorders of the locomotive apparatus.

The Sanatorium has five balneology buildings of total capacity 110 rooms with 226 beds. Provided in these buildings is therapeutical and rehabilitation balneology care to child, adolescent and adult patients - both paid for by health care insurance and paid by the patients themselves (private patients). In addition to the balneology care paid for by health care insurance companies either fully or partially, the Sanatorium also offers reconditioning and wellness programmes for people from the Czech Republic and abroad, who pay for the visit themselves.

MAJOR EVENTS IN 2019:

- In 2019, altogether 3,093 clients received treatment in the Sanatorium, of whom 806 were clients of health care insurance companies (203 adults and 603 children and adults accompanying them).
- The number of children increased compared to 2018 by 23, but the number of adults decreased by 13.
- As priority, the Spa focused on accommodating patients of health care insurance companies and private patients undergoing treatment, which was reflected in the decrease in the number of hotel guests on a year-to-year basis by 341.
- The number of outpatients and clients with FT vouchers (for physiotherapy) increased in 2019.
- Altogether 53,347 procedures were administered in the Spa in 2019.

- Two new physicians were hired, the main reason being that the Spa wants to continue in 2020 with its endeavour to increase the number of patients of health care insurance companies, especially children, and minimise the number of hotel guest who do not undergo any therapy. The main emphasis will be on the treatment of child diabetes, since over the past 20 years the number of children with this diagnosis has tripled. And similarly, the number of children with obesity has been growing steadily, with approximately a fifth of the children in the age group 11 to 15 being overweight.

The Spa Sanatorium Mánes has been newly granted an authorisation to treat indications I/1 Oncologic diseases and VI/2 Polyneuropathy with paresis symptoms. •



Pea Spa Toušeň

Matron: **Mgr. Alice Školníková**

BASIC CHARACTERISTIC:

The Peat Spa Toušeň has been a detached facility of the Na Bulovce Hospital since September 2006. Apart from balneology treatment administered to patients of health care insurance companies, the Spa also provides ambulatory rehabilitation treatment, wellness and reconditioning services to both domestic and foreign clientele.

The therapeutic programme focuses on treating patients with disorders of the locomotive apparatus. The cure procedure administered at the Spa include peat baths and body wraps from the Spa's own deposit of natural healing peloid, situated less than 4 kilometres away from the Pea Spa.

TREATMENT PROVIDED IN 2019:

TYPE OF BALNEOLOGY TREATMENT	NUMBER OF PATIENTS	NUMBER OF TREATMENT DAYS
Institutional care		
Fully paid from health insurance	370	9,364
Partially paid from health insurance	28	540
Private patients	490	2,667
INSTITUTIONAL CARE TOTAL	888	12,571

Ambulatory care		
Private patients	857	3,036
AMBULATORY CARE TOTAL	857	3,036
TOTAL INSTITUTIONAL AND AMBULATORY CARE IN 2019	1,745	15,607

MAJOR EVENTS IN 2019:

- Purchasing a new CO2 INDAP INSUF instrument for the dosing of subcutaneous gas injections.
- Effective from 15 July 2019, Mgr. Alice Školníková replaced Radomíra Rottová in the position of the Peas Spa Toušeň's Matron.
- In October a new Division of Human Resources and Balneology Care was established, with Václav Studený appointed as the Chief Officer.

134

private patients received treatment at Pea Spa Toušeň in 2019



7

Education Department

Head: **Bc. Dana Holadová**

BASIC CHARACTERISTIC:

The Education Department participated in organising and providing education to students, medics, physicians, non-doctor medical personnel and non-medical personnel. Therefore it was keeping in contact with all departments of the Na Bulovce Hospital, with schools, universities, educational institutions and health care facilities throughout the Czech Republic.

MAJOR EVENTS IN 2019:

- In 2019, the Department organised mandatory training of NBH personnel and educational events required to meet the needs of the Hospital's various medical disciplines and units.
 - Successful extension of the educational programme for general nurse students of the 3rd Medical Faculty of Charles University in Prague, by making it available to students of other years.
 - 636 specialised practical training courses were given as part of the mandatory curriculum for students and medics, and 552 internships were provided as part of the specialisation training programme for doctors and non-doctor medical personnel (NBH employees as well as medical staffs from other health care institutions).
 - Providing certified courses "Comprehensive care of invasive inputs in paediatrics and neonatology", "Care of patients with implanted subcutaneous port" and "Radiology physics in radiotherapy" for non-doctor medical personnel.
 - Providing two "Accredited qualification courses for sanitary technicians".
 - The Na Bulovce Hospital was granted accreditation for 14 main domains of medical disciplines, and applications were submitted for accreditation for in-house specialised training of physicians.
 - The Hospital also obtained accreditation for providing specialised practical training as part of the practical part of probation examination of candidates to be recognised as qualified to perform the profession of a physician.
- Three general nurses and one practical nurse from Ukraine were accepted into the "Highly qualified employee" project, which from 1 September 2019 substituted the original project, "Special procedures for highly qualified employees from Ukraine and India".

636

the number of practical courses of students and medics which took place in 2019 at NBH

Science and Research, Institutional Support

Chief Officer for Science, Research, Grant Activities and Development: **MUDr. Lívía Večeřová, MBA**

BASIC CHARACTERISTIC:

The Na Bulovce Hospital is a selected health care, educational and research facility appointed by the Ministry of Health of the Czech Republic. The Hospital's health care clinics and departments serve as teaching bases for medical and other faculties, for the Institute for Postgraduate Education in Medicine (IPVZ) and for other institutions providing education of physicians and other professional health care workers, and conducts basic and clinical research. In 2019, the funds received from institutional support, which amounted to CZK5,880,711, were used rationally for investment and non-investment purposes to support scientific projects. In 2019, the Hospital staff published 20 dedicated papers with an impact factor in foreign magazines. The number of impact factors of these dedicated papers published in foreign magazines added up to 136,069.

MAJOR RESEARCH PROJECTS IN 2019:

One-year projects

- Comparing the effects of continual versus intermittent elimination method in infectious patients, especially patients with renal failure (multiple organ dysfunction syndrome – MODS).

Topics dealt with in new and existing multi-year projects executed by the Na Bulovce Hospital, as joint ventures with the 1st, 2nd or 3rd Medical Faculty of Charles University, the Microbiology Institute of the Czech Academy of Sciences, the Institute of Haematology and Blood Transfusion, the Research Institute of Veterinary Medicine, and with the University of Basel:

- Needs of seniors and the challenges faced to satisfy them during hospital care.
- Genetic factors contributing towards the development and progression of the metabolic syndrome.
- Nutrition screening, examination and intervention prevention of complications in the treatment of patients with lung carcinoma.
- Health problems of travellers after their return from epidemiologically risky areas, and the possibilities of prevention.
- The significance of longitudinal rotation in complete replacement of the knee joint. Terminal rotation after resection of the anterior sacral ligament of the knee joint. Determining the centre of rotation as the function of the complete knee joint replacement design.
- Femoroacetabular impingement syndrome – FAI.
- Biomarkers and their place in diagnosing peripartetic infections.
- Biomechanical aspects of triple desis of subtalar joint.
- Making models of spinal components.
- Assessing the vitality of vascularised fibula allograft after reconstruction of the intercalary effect using the Capanna's method of combined graft.
- The effects of osteotomy of the pelvis on the hard birth canal.
- Osteogenesis and healing of bones in congenital short femur.
- Analysis of risk factors of the prevalence of oropharyngeal HPV infection in risk women with pathology of the cervix.
- Possibilities of local infiltration anaesthesia in vaginal surgery.
- Risk factors in the development of urine incontinence related to pregnancy and childbirth, and pathological physiology of changes in the pelvic floor.
- Pathophysiology of hypoxia of the foetus during delivery.
- Comparison of mechanical properties of the skin of fingers of patients after breast reconstruction by different techniques.
- Impact of various methods of liposuction on the survival and differentiation of stem cells obtained from the lipoaspirate.
- Prevalence of CD 34+ in mesenchymal stem cells as a predictor.
- Microsurgical treatment of lymphedema.
- Evaluation of the effects of percutaneous aponeurotomy with lipograft in Dupuytren's contraction.
- Using microsurgery and tissue engineering in the therapy of lymphedema.



VI. OTHER FACILITIES



- Specific markers for timely diagnosis of colorectal carcinoma and idiopathic gastrointestinal inflammations and for predicting the illness progress.
- Pharmacotherapy and surgeries in the Crohn's disease.
- Factors influencing long-term patency of peripheral vascular reconstructions.
- Comparison of current treatment modalities in the treatment of the diabetic foot syndrome versus the deployment of latest trends.
- Bedside imaging methods in monitoring the functions of organs in critically ill patients.
- Therapy of lymphedema by the combination of microsurgery and tissue engineering.
- Application of substances for increasing the effectiveness of non-invasive fibrosis treatment of the pes equinovarus defect.
- Validation of an analysis of methylation of TSG promoters in conjunction with HPV induced carcinogenesis as a screening technique of anal carcinoma in risk population.
- Viruses in relation to alimentary infections – molecular epidemiology and the methods for their fast detection.

- Microbiota as a tool for predicting undesirable effects of biological treatment of idiopathic gastrointestinal inflammations on the skin and mucous membrane.
- Genital HPV infections in patients with psoriasis.
- The "LGV genotyping European Project" was the only scientific project which was not active in 2019.

Project terminated in 2019

- Canistherapy in the medical facility in the residential form had to be, due to the old age of the canistherapy dog, terminated.

136,069

is the sum of factors of dedicated publications in foreign journals in 2019.

Centre for Scientific Information, Publication Activities

Head: **Martin Flohr**

BASIC CHARACTERISTIC:

The mission of the Centre for Scientific Information (NBH CSI) is to satisfy the needs for information of the Na Bulovce Hospital personnel, although it is also open as a public CSI library to the professional community, students and other libraries as part of inter-librarian services. We provide to the Hospital employees technical information necessary for their clinical practice, professional growth and for their study, publishing and research needs. In particular we provide

access to a broad portfolio of electronic sources of information through licensed databases (Elsevier, Wiley, Springer).

In 2019, 7,331 items of scientific information were provided to users of the Centre for Scientific Information, plus close to 700 books, and more than three hundred documents were obtained for our users from other libraries in the Czech Republic and abroad. 155 research studies were made available.

MAJOR PAPERS PUBLISHED IN 2019:

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HERCOGOVÁ, Jana.

Klinická dermatovenerologie [Clinical dermatology].

Prague: Mladá fronta, 2019. ISBN 978-80-204-5321-1.

FAIT, Tomáš, Michal ZIKÁN and Jaromír MAŠATA.

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3rd updated and reworked edition. Prague Maxdorf, [2019]. Jessenius. ISBN 978-80-7345-607-8.

LEBL, Jan – FLÖGELOVÁ, Hana – GREGORA, Martin, et al.

Poruchy vodní a elektrolytové rovnováhy u dětí: 50 let molekuly DDAVP. [Disorders of the water and electrolyte balance in children: 50 years of the DDAVP molecule].

First edition. Prague Galén, [2019]. 105 pages: illustrations ; 23 cm. ISBN: 978-80-7492-405-7.

FÍNEK, Jindřich – ZIKÁN, Michal.

Karcinom ovaria [Ovarian carcinoma].

First edition. Prague: Farmakon Press, s.r.o., [2019]. 128 pages: illustrations (mostly in colour), tables; 24 cm. ISBN: cnb003156012; 978-80-906589-9-8.

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Koloproktologie: vybrané kapitoly III [Coloproctology: selected chapters III].

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SELECTED PAPERS PUBLISHED IN PRESTIGIOUS FOREIGN MAGAZINES:

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VI. OTHER FACILITIES



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700

books were lent by the
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Lancet Oncol. 2019 Aug;20(8):1171-1182.

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Enhanced interrogation of degraded DNA from human skeletal remains: Increased genetic data recovery using the expanded CODIS loci, multiple sex determination markers, and consensus testing.

Anthropol Anz. 2019 Oct 30;76(4):333-351.



Ceremonial blessing and opening of the hospital chapel in Na Bulovce Hospital. The blessing was undertaken by ThDr. P. Jan Šalík, Ph.D., episcopal vicar for diakonia, in the presence of the coordinator of hospital chaplains Mgr. Jan Kolouch, director of the hospital Mgr. Jan Kvaček and Deputy Mayors for Prague 8 Mgr. Vladimíra Ludková.

Hospital Chaplains

BASIC CHARACTERISTIC:

Spiritual care in the Na Bulovce Hospital is intended for patients and their families and loved ones, but also for the doctors and other personnel working in the Hospital. Eligible to make use of the services of the hospital chaplains who offer talking, listening, kind meetings, human closeness and companionship during the time of illness. They help to reduce stress, overcome loneliness and find a way to cope with the difficult situation in a dignified way. The Hospital chaplains provide care in the spiritual realm to all people irrespective of their faith or conviction.

Those interested may also visit the Hospital chapel. The Chapel of Our Merciful Lord is situated on the ground floor of Building #3. The chapel is open to all those who seek solace to meditate about their loneliness or who, by prior arrangement, want to have a talk with a chaplain. The chapel is open daily from six in the morning until six in the evening. Holy mass and worshipping sessions are held there three times a week.

Podzemní nemocnice

BASIC CHARACTERISTIC:

Part of the Na Bulovce Hospital complex is a three-story underground, still pressure-resistant bunker, built between 1952 and 1962 in reaction to the cold war. Until 1990, the bunker was classified Top Secret, but after 1990 was declassified. The bunker has a total floor area of 1120 m², an average ambient temperature 20 - 25°C and relative humidity around 70%. The maximum number of people who could seek shelter in the bunker is estimated to be 500, of which up to 60 would be bed-ridden patients. At present, the bunker is maintained as a protected medical facility and as storage for Civil Defence. The facility is subject to regular inspections and maintenance to ensure that, should a need arise, it will be ready to be put into operation instantaneously.

VÝZNAMNÉ UDÁLOSTI V ROCE 2019:

The Underground Hospital is now open to the public, and guided tours are available to pupils and students of primary and high schools and universities, and also to NBH employees. First people who were able to see it were the Hospital's physicians and other staff, and after that, in cooperation with the Municipal Office, also inhabitants of Prague 8 and other people who were interested in seeing it. As part of the World Day Against Nuclear Armament, the bunker was opened, in cooperation with the Municipal Council, also to the residents of Prague 8 and other people interested in seeing it. •

Sponsors and donors

OUR LARGEST DONORS:

Boehringer Ingelheim s.r.o., Na Poříčí 1079/3a, Praha 1
ARAMARK, s.r.o., Pekařská 628/14, Praha 5
Kapka naděje Foundation, Revoluční 1200/16, Praha 1
LuckyBe s.r.o., Staňkova 922/44, Praha 4
Lego production s.r.o., Jutská 2779, Kladno
Prague Archipiscopacy, Hradčanské nám. 56/16, Praha
iQuest s.r.o., Plaská 623/5, Praha 5 – Malá Strana
Coloplast A/S, remote branch, Avenir Business Park, Radlická 740/113d, Praha 5
BAYER s.r.o., Siemensova 2717/4, Praha 5
Prague League Against Cancer, Na Truhlářce 100/60, Praha 8
Detektory Mlejnský s.r.o., K Pepři 607, Jílové u Prahy
EVOLUTIO Foundation, Haškova 139/2, Lesná, Brno
ASSIST spol. s r.o., Glowackého 545, Praha 8
Johnson & Johnson, s.r.o., Walterovo nám. 329/1, Praha 5
Non-governmental medical facility, MUDr. Dugl, Budínova 2, Praha 8
Novartis s.r.o., Gemini, building B, Na Pankráci 1724/129, Praha 4

OUR OTHER DONORS:

STEM/MARK, a.s., Smrčkova 2485/4, Praha 8
Fagron a.s., Holická 1098/31m, Olomouc
PROSAM s.r.o., Na Kladiánci 1121/6a, Praha 4
Boehringer Ingelheim s.r.o., Na Poříčí 1079/3a, Praha 1
Smart One s.r.o., Na Poříčí 1041/12, Praha 1
GARDE-INTERIÉRY, s.r.o., Těšnov 1163/5, Praha 1
Křížovatka Foundation, Nové Sady 607/41, Brno
LA VIDA LOCA Foundation, Na Louži 947/1, Praha 10
MENZO a.s., Křížíkova 185/35, Praha 8
Projekty Zemek s.r.o., Radějovice u 4 chalup 417E, Praha
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Dynex Technologies, spol. s r.o., Vodičkova 791/41, Praha 1
Nestlé Česko s.r.o., Mezi Vodami 2035/31, Praha 4
Gennet s.r.o., Kostelní 292/9, Praha 7
Medtronic Czechia s.r.o., Prosecká 852/66, Praha 9



Nutricia a.s., Na Hřebenech II 1718/10, Praha 4
DARTIN spol. s r.o., Suchbátská 388, Horoměřice
Hipp Czech, s.r.o., Pekařská 628/14, Praha 5
BIOMEDICA ČS, s.r.o., Radlická 740/113d, Praha 5
Audio s.r.o., MUDr. Ripová Lidmila (ORL), Tovární 1342/12, Praha 7
BAXTER CZECH spol. s r.o., Karla Engliš 3201/6, Praha 5
Centner Jiří, Skorotická 818/20, Ústí nad Labem
Žaba Milan, COCON-tonery, Ke Stírce, Praha 8
Chmela Petr, Tescoma s.r.o., U Tescomy 241, Zlín
Tichý svět o.p.s., Staňkovská 378, Praha 9
Souterrain s.r.o., Vyskočilová Zuzana, Na Smetance 503/14, Praha 2
Beneš Jiří, Přerov nad Labem 43, Přerov nad Labem
ASEKOL a.s., Československého exilu 2062/8, Praha 4
Nutricia a.s., Na Hřebenech II 1718/10, Praha 4
Ing. Zapadlo Jaroslav, K Beranovu 1190/17, Praha 8
BAXTER CZECH spol. s r.o., Karla Engliš 3201/6, Praha 5





A litter girl patient suffering severe congenital syndactyly and brachydactyly - webbed and short fingers. Partial reconstruction of her hands has already been done and another phase is planned.

MEDEVAC

BASIC CHARACTERISTIC:

MEDEVAC, a medical humanitarian programme managed by the Ministry of Internal Affairs of the Czech Republic, focuses on providing health care to people afflicted by a humanitarian crisis or natural disaster. Treatment and help to civilians is rendered free of charge, directly at the place of their residence or in refugee camps.

The Na Bulovce Hospital joined the MEDEVAC programme as one of the first institutions back in 2014, and by the end of 2018 participated in twenty foreign missions in Jordan, Senegal and Ghana, with Orthopaedy, Ophthalmology, Gynaecology and Plastic Surgery teams taking active part. The Na Bulovce Hospital, together with the Military University Hospital (VFN) also participates in the educational programme for rehabilitation workers of the Kiev District Hospital in Ukraine.

The cooperation in the MEDEVAC programme is scheduled to continue in the coming years, with the scope of activities being expanded in line with the current global needs.

MAJOR EVENTS IN 2019:

- Medical mission of the Orthopaedy team of the Na Bulovce Hospital in Jordan (February 2019).
- Internship of rehabilitation workers of the Kiev District Hospital in NBH (May 2019).
- Medical mission of the NBH Plastic Surgery team in Jordan (September 2019).
- Medical mission of the NBH Gynaecology team in Senegal (November 2019).
- Medical mission of the NBH Gynaecology team in Ghana (December 2019).



Head of the Department of Plastic Surgery, Na Bulovce Hospital, MUDr. Martin Molitor, Ph.D. in a combined team with prof. MUDr. Andrej Sukop, Ph.D. perform complicated hand surgery.

NA BULOVCE HOSPITAL ACCREDITATION 2019

In November 2019, the Joint Accreditation Committee extended the Na Bulovce Hospital's accreditation by additional three years, i.e. until 2022. The conducted accreditation audit included assessing the quality and safety of the health care provided in the Hospital's ward section. With the point rating of 9.76, the Hospital achieved the best result of the three accreditation audits it has undergone. The status of an accredited institution has strengthened the Na Bulovce Hospital's position and credibility among all health care facilities, and is an evidence that the Hospital is safe and provides all care in accordance with the current knowledge of the medical sciences, to the benefits of its patients.



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Evidenční číslo

Spojená akreditační komise, o.p.s., IČ: 284 88 946

21.11.2019

Datum vydání

CERTIFIKÁT

O UDĚLENÍ

AKREDITACE

Nemocnice Na Bulovce

(bez lůžkových provozů)

Budínova 67/2, 180 81 Praha 8

Název akreditovaného zdravotnického zařízení

Výše uvedený poskytovatel zdravotních služeb úspěšně absolvoval akreditační šetření a splnil požadavky akreditačních standardů Spojené akreditační komise, o.p.s. Současně tento poskytovatel splnil požadavky všech minimálních hodnotících standardů Fizeň kvality a bezpečí v souladu s ustanovením § 105 zákona č. 372/2011 Sb. o zdravotních službách a podmínkách jejich poskytování a s vyhláškou č. 102/2012 Sb. o hodnocení kvality a bezpečí lůžkové zdravotní péče.

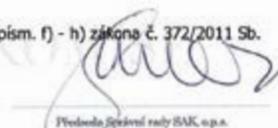
Platnost certifikátu do: **20.11.2022**

Certifikát udělen pro formu lůžkové zdravotní péče v rozsahu druhů zdravotní péče dle § 5 odst. 2, písm. f) - h) zákona č. 372/2011 Sb.


Ředitel SAK, o.p.s.


Spojená akreditační komise
Nad Panenskou 164/4
Praha 6, 169 00
IČO: 284 88 946




Předseda Správní rady SAK, o.p.s.



Nemocnice Na Bulovce

Budínova 67/2

180 81 Praha 8 – Libeň

IČO: 00064211

DIČ: CZ00064211

Číslo účtu:

Česká národní banka

16231081 / 0710

www.bulovka.cz

