

Charles University
First Faculty of Medicine

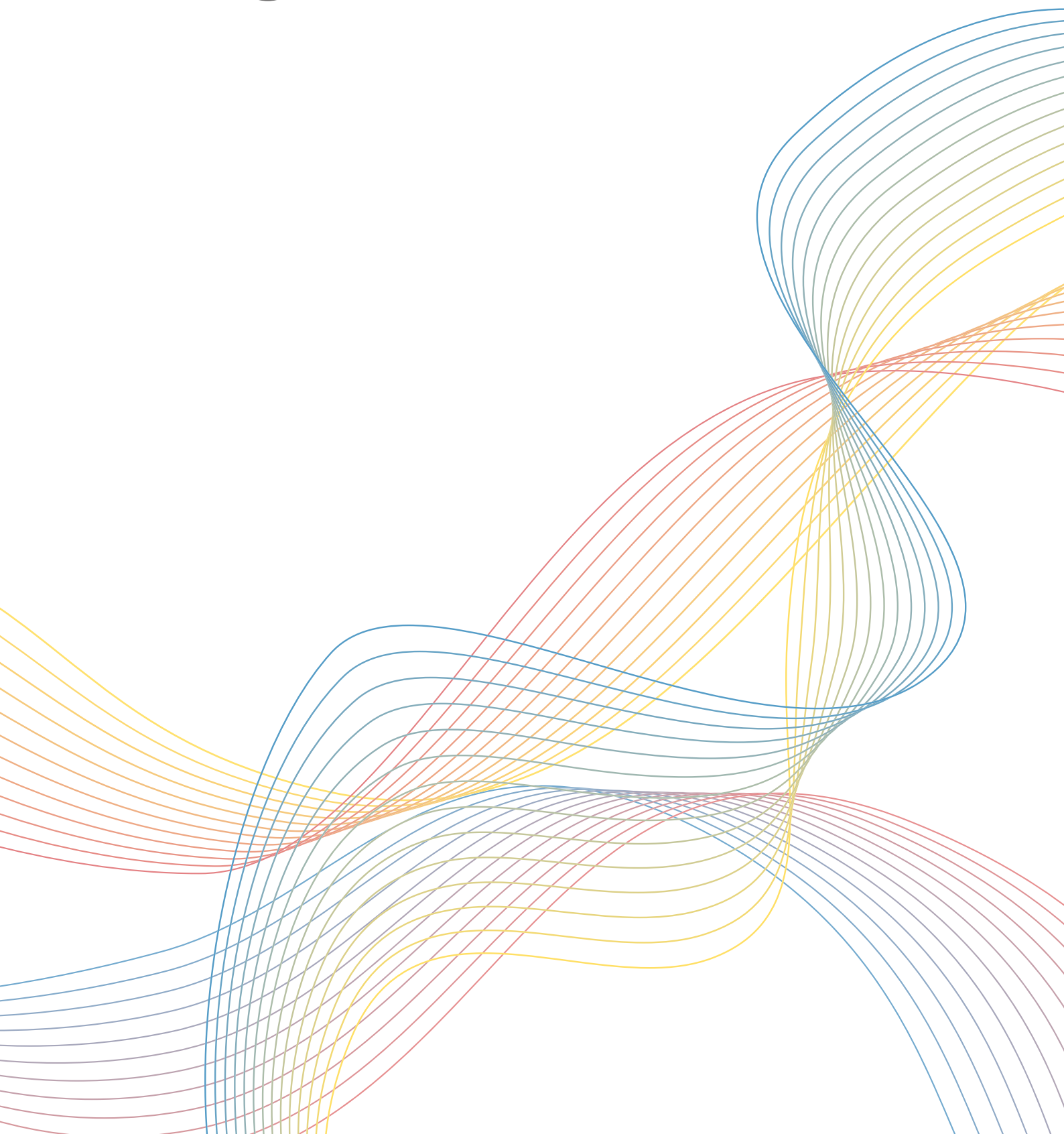
Annual Report

2021



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First Faculty of Medicine

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**FIRST FACULTY
OF MEDICINE**
Charles University

Compiled by team of authors from Charles University – First Faculty of Medicine
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REPORT ON THE ACTIVITIES

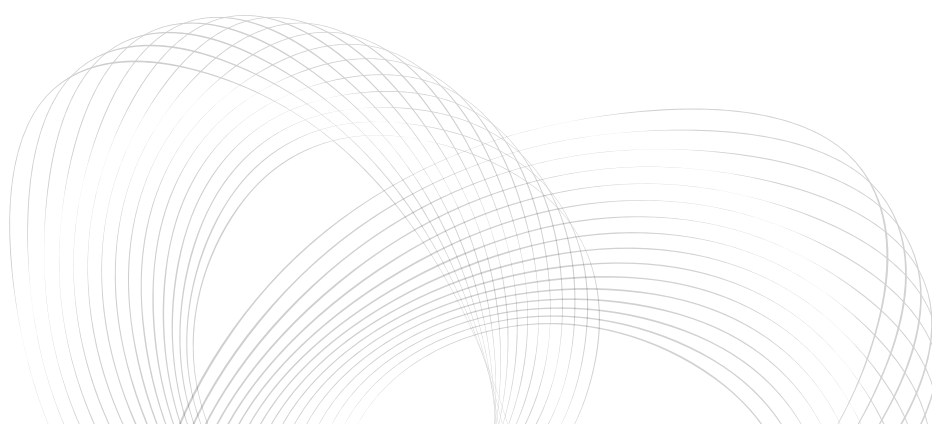
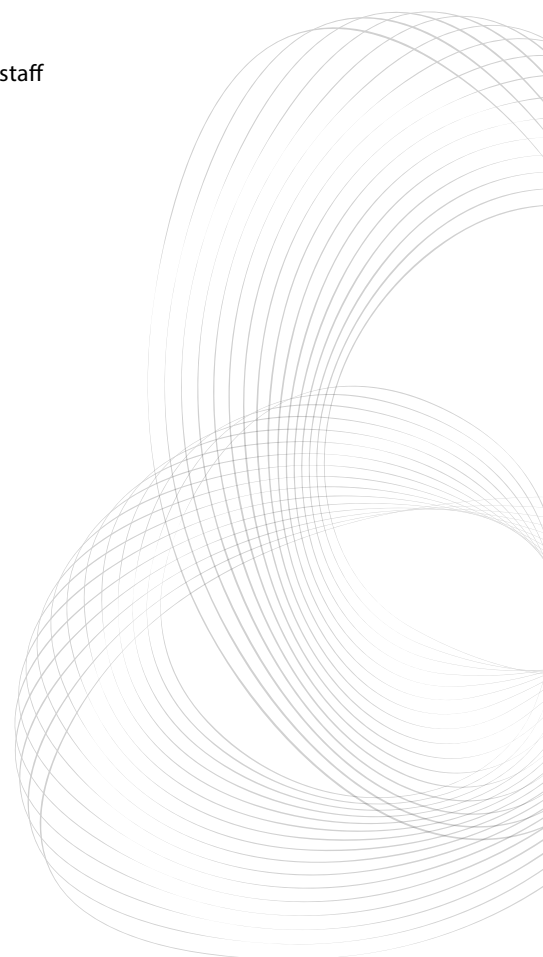
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*Professor MUDr. Martin Vokurka, CSc.,
Dean of the First Faculty of Medicine
of the Charles University*

We have entered the past year, 2021, with caution because the autumn of 2020 was one of the most difficult on the record: it was a time when the Covid-19 pandemic significantly affected our country and therefore also our Faculty. The spring of 2021 unfortunately turned out to justify our fears. Fortunately, however, the Faculty, its new management, individual institutes, teachers, and naturally also students already had sufficient experience both with organising help to our healthcare system and with distance learning. We had also had sufficient experience with organising practical instruction, which fortunately continued at medical faculties throughout the year, although everything was more difficult than usual. In collaboration with the deans of other medical faculties we managed to prevent a reintroduction of compulsory work by our students, who were thus able to engage in volunteer work. For this, I would like to thank them again.

Distance learning of theoretical subjects had further improved, and in many cases led to the creation of materials that will find a long-term use. Due to the requirements of practical instruction in dentistry, we invested into modifications of the teaching halls, which are now split into individual 'offices', thus meeting even stricter epidemiological criteria. Thanks to this, practical instruction could continue. In many ways, we thought of the future, and not only in terms of considering Covid-19.

Since the beginning of 2021, we tried to promote among the general public awareness of the need to get vaccinated against Covid-19 and supported vaccination also among our employees and students. We have initiated changes which increase the professional qualification of students and in 2021, these changes were passed into a law. Related to this were changes in the curriculum regarding nursing. Thanks to these changes, medics now acquire in addition to the status of a medical orderly and attendant (after second year) also the status of a practical nurse after passing an exam in nursing in the fourth year.

At the beginning of 2021, the epidemic situation related to Covid-19 prevented certain traditional Faculty events, such as the Representative Ball of the Medic, from taking place. The Day of Open Doors took place in a virtual form but on all available communication channels and the number of persons who visited our Faculty virtually had, in comparison to previous years, again increased. In a similar way, we organised the Students' Scientific Conference.

The second half of 2021 was characterised by overcoming of the most difficult stages of the epidemic in the Czech Republic, although in the autumn the situation once again did not permit a full normalisation of social life. Still, some in-person events and meetings started to come to life, although to a smaller extent than usual. Every time, though, I felt the great joy of the people who were thus able to meet.

We started to implement some changes that should help the Faculty move forward. In teaching, we increased the proportion of simulation instruction. As of the 1st of January 2021, there was created in collaboration with the General University Hospital a Department of Palliative Medicine, which actively approached among other things also instruction in communication with patients. We are working on lists of basic practical therapeutic actions which future graduates must master to be in practical terms better prepared for medical practice. We have launched the process of internal modernisation of the operation of the Faculty and the Dean's Office and of increasing the efficiency of internal processes, including their economic aspect.

To support scientific work at the university, we started working on preparation for Cooperatio, a new programme that will, starting in 2022, replace the Progres programme, which is currently used to finance university science. The new programme did not meet with warm endorsement, but the Faculty must try to make sure that this change does not affect its basic operation and that it provides also some new opportunities. Towards the end of the year, we started to prepare applications for financial

resources for individual projects within the National Programme of Renewal, which offers opportunities to our Faculty in the basic areas of science. In October 2021, we have – jointly with rector of the Charles University, other deans, representatives of the state and the capital city – unveiled the foundation stone of the Albertov Campus. Commercialisation of some discoveries regarding the diagnostic of Covid-19 had proven a great success, which showed our great potential in this area.

We have also been active in the international arena. The Faculty had concluded memoranda on cooperation with some hospitals in Israel, which will help our students, and further agreements with for instance some German hospitals are currently being negotiated. The Faculty must react to the fast development of both medical science and teaching of medicine and emphasise its international character and cooperation with other countries and regions.

Finally, I would like to thank all employees of the Faculty, teachers, administrative staff, and students. Once again, we managed to meet challenges successfully and head on. Even so, we continue to analyse developments at the Faculty and try to prepare for further challenges we are likely to encounter in the future.

I would also like to thank the management teams of hospitals where our teaching departments are located. Their collaboration was during the peaks of the Covid-19 epidemic of key significance, and I believe that this had contributed to a greater feeling of cooperation and togetherness between us. I also very much appreciate the role of non-Faculty employees of the hospitals, without whom many things would have been much more difficult.

I am convinced that our Faculty is in good shape, thanks to which it will cope well with future challenges. At the same time, its management will work hard to implement changes that would move the Faculty forward as an outstanding and internationally respected teaching and research institution.

A WORD OF INTRODUCTION FROM DIRECTOR OF THE GENERAL UNIVERSITY HOSPITAL



*Professor MUDr. David Feltl, Ph.D., MBA
Director of the General University Hospital in Prague*

The year 2021 was unfortunately the second year of pandemic of the Chinese virus. It was similar to 2020 in terms of the leitmotif of the year but very different in terms of what we dealt with and how we managed to address the situation. While in 2020, we had largely focused on personal protective gear, isolation, and testing, in the past year it was vaccination that dominated the discourse. This had once again tested our resilience, improvisation skills, and versatility – and once again we did well. Just like in the previous year, it turned out that large hospitals are indeed the core of the Czech healthcare system and we in the General University Hospital are proud of having become in many ways the leader of these activities.

The operation of the hospital was markedly smoother than in 2020, disruptions in care smaller, financing from the relevant parties adequate, so in terms of operational stability we cannot really complain. We were able to provide all necessary care to all patients, meaning also (and especially!) care that was not related to Covid-19. We managed to develop all of our key programmes and can therefore conclude that despite the pandemic, our hospital did not stagnate but successfully developed. On top of that, we managed to settle the last remaining obligations that were past due date and can thus confirm that economy of the General University Hospital has finally fully recovered.

Operational and financial stability of the hospital is of key importance for collaboration with the General University Hospital. Under such conditions, we can have even greater ambitions in terms of more intensive collaboration, investment into joint projects, key persons, essential technologies, and development programmes. I believe we are highly active and in the near future, our cooperation should lead to an even greater attractivity of studies and comfort for students and teachers from the Faculty with which we collaborate. We have acquired the status of emergency admissions of the highest level and subsequently successfully applied for investment from EU funds amounting to almost 800 million CZK. We have prepared documentation for a project of a new joint centre in the lower part of the main compound, pre-project work on a general reconstruction of the Department of Gynaecology and Obstetrics U Apolináře is proceeding apace, we are preparing a project of reconstruction of psychiatric inpatient wards and of a hybrid theatre...and this list could go on and on. What is also continuing is preparatory work related to incorporating the Faust's House into the portfolio of General University Hospital's assets. In all places where we build, reconstruct, and reorganise, we think of synergy with the First Faculty of Medicine, because we want to continue with removing barriers between the two institutions. And in my view, we are succeeding.

The system of healthcare, as well as our country as a whole, is likely to be affected by a more difficult period. We are therefore doing our best not to overlook any opportunity for development, because a top-level university hospital which helps ill people and, at the same time, prepares the next generation of people who will care for them is always needed.

A WORD OF INTRODUCTION FROM DIRECTOR OF THE MILITARY UNIVERSITY HOSPITAL PRAGUE



*Professor MUDr. Miroslav Zavoral, Ph.D.,
Director of the Central Military Hospital – Military
University Hospital Prague*

Let me take a brief look back at the joint projects and activities of the Central Military Hospital and the First Faculty of Medicine in 2021. The Central Military Hospital – Military University Hospital has partnerships with all faculties of medicine of the Charles University but collaboration with the First Faculty of Medicine is the most extensive of these, has a tradition spanning over more than 60 years, and rests on firm foundations of collegiality and mutual respect.

The past year, 2021, was for everyone – and for healthcare providers especially – a testing time due to the continuing epidemic of SARS-CoV-2. We entered the year with full 'Covid wards', limited nonurgent care, and distance teaching. Operation of the hospital was affected by absence of personnel who were either ill with Covid-19 or in quarantine.

We were meeting tasks outside the common ones: our hospital was providing outpatient and inpatient care and treatment to patients with Covid-19 under the auspices of especially the Department of Infectious Diseases and the Department of Anaesthesia, Resuscitation, and Intensive Medicine (both of the First Faculty of Medicine of the Charles University and the Central Military Hospital). We were introducing new treatment methods which had proven effective abroad, and we tested dozens of thousands of persons with suspected SARS-CoV-2 infection each month. The priority of the Central Military Hospital, especially in the spring and summer months, was to provide vaccination against Covid-19 to adults on a massive scale. It is fair to say that we managed to meet these tasks successfully, among other things thanks to cooperation with faculties of medicine of the Charles University, including the First Faculty of Medicine of the Charles University. Students were helpful at various departments within the hospital and helped also during the vaccination drive, especially in terms of helping with vaccination against Covid-19 in the National Vaccination Centre in the O2 Universe, which was operated by the Central Military Hospital.

Despite the epidemic, the Central Military Hospital, its development, and its collaboration with the First Faculty of Medicine did not stop. The significance of simulation learning had increased, we have expanded the use of online forms of teaching, and practical training of students continued while observing all valid anti-epidemic measures. Of the overall number of practical training provided to students of the 3rd to 6th year at all medical faculties of the Charles University, one half consisted of students of the First Faculty of Medicine of the Charles University, and the Central Military Hospital continued to develop active partnership also within international programmes Erasmus and IFMSA. We have further deepened our collaboration with specialised institutes of the First Faculty of Medicine of the Charles University, especially the Institute for Biochemistry and Experimental Oncology, the Centre of Tumour Ecology, and the Institute of Anatomy.

There also continued collaboration on Progres programmes aimed at the development of particular areas of science. This research activity is conducted at the Department of Internal Medicine of the First Faculty of Medicine and the Central Military Hospital by Professor MUDr. Petr Urbánek, CSc., in cooperation with Docent MUDr. Štěpán Suchánek, Ph.D.; involved in Progres projects Q26-7 and SVV 260520 of the First Faculty of Medicine was also the Department of Infectious Diseases of the First Faculty of Medicine and the Central Military Hospital, while the Department of Neurosurgery and Neurooncology of the First Faculty of Medicine and the Central Military Hospital addressed within a Progres project two areas of research: research into psychoneuropharmacology and into complications of metabolic diseases.

Our hospital collaborated with the First Faculty of Medicine also in the area of organisation of symposia, as exemplified for instance by the interdisciplinary symposium under the auspices of Dean of the First Faculty of Medicine Professor MUDr. Martin Vokurka, CSc., 'XXIVth Days of Intensive Medicine', where the Department of Anaesthesia, Resuscitation, and Intensive medicine of the First Faculty of Medicine and the Central Military Hospital to a large extent provided organisation, specialised content, and naturally also active participation.

On November 2021 started its operations a new Institute of Radiation Therapy of the Central Military Hospital, equipped

with a unique radiation instrument, a CyberKnife. Thanks to its unique and sophisticated equipment this institute not only a stereotactic radiotherapy and the possibility of conducting various research projects, but also the opportunity to acquire experience and learn how to work with a truly advanced modern instrument.

The past year, 2021, was demanding, but it taught us a lot and reinforced our determination to continue in our work, to continue to educate future generations of physicians, to conduct research, and to do our utmost for the good of our patients. I wish us all the best into the coming year!

A WORD OF INTRODUCTION FROM THE DIRECTOR OF THOMAYER UNIVERSITY HOSPITAL



*Associate Professor MUDr. Zdeněk Beneš, CSC.,
Director of Thomayer University Hospital*

Time known no mercy and another year, one that was in many ways challenging and varied, had passed. Unfortunately, almost all of the past year was still marked by the worldwide coronavirus pandemic, which later mutated into a relatively highly infectious omicron variant. This affected everything around us and, as a consequence, healthcare has been experiencing difficult times. In comparison to the previous waves of the pandemic, though, the current situation is in many ways less complicated, mainly thanks to the existence of effective vaccines and modern medications. I am intentionally starting my introductory remarks with this subject, because Covid-19 affects us all and is likely to stay with us for some time yet. This is a reality with which we must learn to live and work. In this context, I would also like to thank all the medics who have been helping us during the uneasy Covid times.

I am happy to have the opportunity to contribute in this way again to the annual report of the First Faculty of Medicine of the Charles University and inform you about what has been happening in our hospital. You know that our hospital is engaged in a long-term collaboration with the Charles University and its faculties of medicine, both in terms of research and in terms of teaching. Our departments offer facilities for research and study, thanks to which we are succeeding in expanding our mutual collaboration. As a result, the number of students who are staying with us and are interested in practical training at our clinical departments has been growing. We are also linking the operation of our clinical departments with research tasks and education, and in both these areas we are successfully helped by students from the First Faculty of Medicine. In the area of research and development, we offer various opportunities for collaboration, which helps students acquire valuable experience that can later be of use in their medical practice.

This past year was in many ways highly demanding in connection with the coronavirus pandemic, but it was also very varied. We managed to realise a large number of investments and other beneficial activities that were important for our hospital. For instance, we are in the last stage of preparation of improved thermal insulation of several pavilions, which will receive either a new coat or new windows. And all this in part thanks to EU subsidies. This is also connected with the planned general reconstruction of our Department of Pneumology of the First Faculty of Medicine of the Charles University or the planned future construction of central emergency admissions, which is of key importance for us. All of the preliminary planning is in fact done and now we are waiting for the last stages of the individual projects to be completed – and then the projects will be launched. Last year, we managed to acquire two linear accelerators whose quality belongs to the very top. For oncology, these instruments are irreplaceable, both in terms of their potential and in terms of their therapeutic effect. For our Department of Oncology of the First Faculty of Medicine, their acquisition was a great success, a culmination of huge effort that had to be exerted before the instruments were actually purchased – and all of this was possible also thanks to important financial help from the Ministry of Healthcare of the Czech Republic. We have managed to completely reconstruct and modernise our endoscopic theatres, including their instruments and technical facilities. Reception at the endoscopy departments associated with the Department of Internal Medicine of the Third Faculty of Medicine has also been improved and updated. These are just few examples, and one could continue on this note for a while yet. At the end of last year, we have launched a new hospital information system (NIS), which is of crucial importance for a smooth operation of the hospital. The old NIS was at the end of its life and after many years of service, it was time to replace it with a new one.

There were numerous successes one could report, and I am very happy that despite the challenges of the years just past, we achieved many positive results.

In conclusion, I would, from the bottom of my heart, like to wish you much success in your personal and professional lives, wish those who are ending their studies this year a good start in medical practice and a lucky hand in choosing their first job in the field they chose. And good health to all of us!

A WORD OF INTRODUCTION FROM DIRECTOR OF THE BULOVKA UNIVERSITY HOSPITAL



*Mgr. Jan Kvaček,
Director of the Bulovka University Hospital*

Our hospital engages in all the main tasks expected of a teaching hospital. We provide a wide range of healthcare, develop centres of highly specialised healthcare, create conditions for teaching and internship for students of medical faculties, and provide conditions for research and development. Deans of the individual faculties of medicine have spoken about the level of existing cooperation, which to an important extent features also basic and clinical research, including the implementation and testing of new treatment methods, whose integral part is clinical evaluation of new pharmaceutical treatments. Based on these facts, we have as of 1 January 2021 again received the status of a teaching hospital, whereby as of that date, our hospital is officially called Bulovka University Hospital.

We operate shared facilities and centres with the First, Second, and Third Faculty of Medicine of the Charles University, which focus on teaching and research activities. In the case of the First Faculty of Medicine, these centres include our most important ones: the Department of Infectious and Tropical Diseases, Department of Gynaecology and Obstetrics, Department of Orthopaedics, Department of Surgery, and the Department of Plastic Surgery. We look forward to developing our mutual collaboration also in the future.

Still, our hospital is facing challenges linked to lack of staff, a deep deficit in terms of investments, and an unfavourable economic situation – all this was significantly affected by the Covid-19 pandemic and cessation of elective and outpatient care. In the coming year, our main task is thus to return the hospital back to its normal operation and gradually stabilise its finances, so that it be capable of meeting its long-term tasks in the system, and that in all of its roles: as one of the central hospitals serving a large area, in selected specialisations as a leading centre with international impact, and last but not least as a centre of research and teaching that collaborates with medical faculties.

A WORD OF INTRODUCTION FROM DIRECTOR OF THE MOTOL UNIVERSITY HOSPITAL



*JUDr. Ing. Miloslav Ludvík, MBA,
Director of Motol University Hospital*

The past year, 2021, clearly deserves being called a 'Covid year'. In hospitals and in the society at large we have been learning how to deal with a nonstandard situation caused by a worldwide pandemic. In the autumn of 2021, we have – after several months of relaxation of Covid measures – marked a new increase in the incidence of Covid-19 linked to the new Delta and later Omicron mutations. For hospitals, this once again meant restrictions on non-urgent medical care and changes in the organisation of patient care. Unfortunately, many members of the staff also fell ill, so we were happy to use once again the help of medical students, for which I would like to thank them.

Motol University Hospital and the First Faculty of Medicine of the Charles University are engaged in long-term collaboration. In the adult part of our hospital, there are located four shared clinical departments. They are large in terms of staff and important in terms of their reputation.

The Third Department of Surgery, headed by Professor MUDr. Robert Lischke, Ph.D., is a centre of excellence in the area of thoracic surgery in the Czech Republic, a centre of treatment of sarcomas of soft tissues, and the only institution in our republic which carries out lung transplants and in recent years also transplants of heart and lungs. Last year, we carried out already the 500th lung transplantation.

The Department of Otorhinolaryngology and Head and Neck Surgery, headed by Professor MUDr. Jan Plzák, Ph.D., provides the full range of tests and treatment of diseases of ear, nose, and throat, including oncological ones. In the case of a number of specialised operations, this centre serves the entire Czech Republic. The department organises or co-organises many educational and training events and in recent years, within the framework of Medevac, it has also been collaborating with physicians in Senegal.

The First Department of Orthopaedics, headed by Professor MUDr. Ivan Landor, CSc., provides both conservative and surgical treatment to adult patients within the full range of orthopaedic interventions. It is also successful in science: last year, based on research conducted here, we applied for a patent related to the treatment and prevention of calcification affecting the motor system.

The Department of Spine Surgery, headed by Professor MUDr. Štulík, CSc., is an institution serving the entire Czech Republic which focuses on treatment of spine injuries and diseases in both children and adults. The department is well-known for its high quality and efficiency.

It is clear to me even now that in 2022, we will be facing vast challenges, not only in the Motol University Hospital and at the First Faculty of Medicine of the Charles University, but throughout the Czech system of education and healthcare, and in the entire Czech Republic and Europe. Let us wish for the best and strive for optimal cooperation!

*Professor MUDr. Jan Betka, DrSc.,
Chairman of the Academic Senate
of the First Faculty of Medicine
of the Charles University*



In the past period, the Academic Senate of the First Faculty of Medicine met eight times. Participation was in all cases high, on average about 90%. Each session of the senate was preceded by a report from the Dean of the Faculty, Professor MUDr. Martin Vokurka, CSc., on current events and situation at the Faculty and the university. We were kept informed about preparations for Cooperatio, a new programme for institutional financing of science, divisions of areas of science, NPO, etc. The senate had also dealt with its regular agenda proposed according to the rules of procedure by the Faculty management.

The senate had discussed and adopted a proposal of internal regulation of the Faculty, which changes the rules of procedure of the Scientific Board of the First Faculty of Medicine, rules regulating the organisation of studies at the Faculty, statutes of the Faculty, a proposal to give accreditation to a doctoral programme in Cardiovascular Sciences, to cancel certain non-functioning doctoral programmes, a proposal regarding entrance examinations for applicants to general medicine and dentistry, changes in the curricula of master programmes in general medicine and dentistry, the amount paid out as doctoral stipend in 2021/2022, a proposal of a new internal salary regulation for employees engaged in teaching, proposal regarding the Addictology follow-up master's programme, in particular concerning its right to administer state rigorosum examination, proposal regarding a stipend for outstanding study results in academic year 2021/2022, an extension of accreditation of bachelor programme General Nursing and Occupational Therapy, and conditions of entrance examinations for doctoral programmes for academic year 2022/2023.

The Academic Senate has also passed conditions of entrance examinations for academic year 2022/2023 for study programmes in both Czech and English.

Also adopted was an agreement with the CETIN company: relocation of routes, changes of infrastructure with T-Mobile, and a proposal regarding the recalling and appointment of a new member of the Scientific Board.

The Academic Senate discussed proposed partial amendment of the rules of matriculation and graduation, allocation of finances from the Progres programme in 2021, and an amendment to the tendering rules within the Charles University.

The Senate voted on the individual points on its agenda, voted, and adopted all these points which were then passed on for further processing.

The Senate had appointed new members to its committees for legislation and economy and proposed to the Dean of the Faculty members of a new, ten-member committee for evaluation of teaching. The Academic Senate had expressed its consent with a new composition of the disciplinary committee of the First Faculty of Medicine (six members). Representatives of the Academic Senate were, as needed, nominated to committees for selection of new academic staff. The Academic Senate is also represented in the Faculty's group for strategy and economy, an informal body focused on assessing the current state and trends in the Faculty's economy.

The May session of the Academic Senate had negotiated and adopted a proposed a long-term plan of the First Faculty of medicine for 2021–2025. The senate has heard speeches of candidates to the post of rector of the Charles University. Professors PhDr. Michal Stehlík, Ph.D., and MUDr. Milena Králíčková, Ph.D.

The senate paid the greatest attention to the now receding coronavirus crisis and its impact on teaching but also the Faculty's economy. Our aim has been to minimise this impact.

So far, during this term of the Senate, the Senate did not deal with any proposals brought forth by members of the academic community, only the student part of the Senate came up with a proposal for the allocation of remuneration for teaching for

international students for the academic year 2021/2022. In the end, it had been agreed that this matter would be addressed individually.

It had become customary that our representatives in the Academic Senate of the Charles University brief the Academic Senate of the First Faculty of Medicine about matters discussed in the 'big senate'.

During this period, we have also addressed the possibility of changing the rules of procedure of the Senate. A work group has been appointed and it has been meeting regularly. This subject has been discussed at Senate sessions repeatedly and one can anticipate it would be discussed also at future meetings.

COMPOSITION OF THE ACADEMIC SENATE (FOR THE TERM OF 2019–2022)

Chairman: prof. MUDr. Jan Betka, DrSc.

Vice-Chairman: David Kulišiak

Teachers' Representatives:

MUDr. Yvona Angerová, Ph.D., MBA
 Prof. MUDr. Jan Betka, DrSc.
 Prof. MUDr. Radan Brůha, CSc.
 MUDr. Jan Bříza, CSc., MBA
 Assoc. Prof. MUDr. Štěpán Havránek, Ph.D.
 Prof. MUDr. Tomáš Honzík, Ph.D.
 Prof. MUDr. Zdeněk Krška, DrSc.
 Prof. MUDr. Jaroslav Lindner, CSc.

Prof. MUDr. Alois Martan, DrSc.
 MUDr. Mlček Mikuláš, Ph.D.
 Prof. MUDr. Pavel Pafko, DrSc.
 Prof. MUDr. Antonín Pařízek, CSc.
 Prof. MUDr. Jiří Raboch, DrSc.
 Prof. MUDr. Karel Smetana, DrSc.
 Prof. MUDr. Michal Vrablík, Ph.D.
 Prof. MUDr. Aleš Žák, DrSc.

Students' Representatives:

MUDr. Simona Arientová, Ph.D., MBA
 Jakub Danzig
 Christian Joachim Entenmann
 Allen Fishman
 David Kulišiak
 MUDr. et MUDr. Karel Klíma, Ph.D.
 PaedDr. Josef Marcoň

Martin Pehr
 Alexandros Psarris Spyridon
 MUDr. Otakar Raška, Ph.D.
 Natálie Sádovská
 Matěj Višňa
 Vít Wildorf
 Maximilian Woellersdorfer

FACULTY MANAGEMENT

Dean: prof. MUDr. Martin Vokurka, CSc.

Vice-Deans:

MUDr. Eitan Brizman, BDS,
Vice-Dean for International Students Studying in English
 Assoc. Prof. MUDr. Andrea Burgetová, Ph.D.,
Vice-Dean for Studies and General Medicine
 Prof. MUDr. Jana Dušková, DrSc., MBA,
Vice-Dean for Admissions
 Prof. MUDr. René Foltán, Ph.D.,
Vice-Dean for Dentistry
 Prof. MUDr. Otomar Kittnar, CSc., MBA,
Vice-Dean for Development and Public Relations

Prof. MUDr. Pavel Klener, Ph.D.,
Vice-Dean for Research and Academic Degrees
 Prof. MUDr. Petra Lišková, M.D., Ph.D.,
Vice-Dean for Grant Projects
 Prof. PhDr. Michal Miovský, Ph.D.,
Vice-Dean for Non-Medical Programmes
 Prof. MUDr. Aleksi Šedo, DrSc.,
Vice-Dean for International Relations
 Assoc. Prof. MUDr. Lukáš Zlatohlávek, Ph.D.,
Vice-Dean for Doctoral Studies

Members of the Dean's Board:

Prof. MUDr. Jan Betka, DrSc.
 Prof. MUDr. Jan Bělohlávek, Ph.D.
 Prof. MUDr. David Feltl, Ph.D.
 Assoc. Prof. MUDr. Tomáš Grus, Ph.D.
 Assoc. Prof. MUDr. Tomáš Kučera, Ph.D.
 MUDr. Mikuláš Mlček, Ph.D.
 Ing. Ivan Mikula, Ph.D.

Ing. Eva Soubustová, MBA (*until 30 September 2021*)
 Ing. Tereza Lukášová
 Prof. MUDr. Jan Škrha, DrSc.
 Prof. MUDr. Martina Vašáková, Ph.D.
 MUDr. Martin Vejražka, Ph.D.
 David Kulišiak – *representative of students from the Academic Senate of the First Faculty of Medicine of the Charles University*

SCIENTIFIC BOARD

Chairman: Prof. MUDr. Martin Vokurka, CSc.

Members from the Faculty:

Assoc. Prof. MUDr. Martin Anders, Ph.D.,
Department of Psychiatry, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Vladimír Beneš, DrSc.,
Department of Neurosurgery and Neurooncology, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Petr Cetkovský, Ph.D.,
Institute of Clinical and Experimental Haematology, First Faculty of Medicine, Charles University, and the Institute of Haematology and Blood Transfusion

Prof. MUDr. David Cibula, CSc.,
Department of Gynaecology and Obstetrics, First Faculty of Medicine, Charles University, and General University Hospital

Assoc. Prof. MUDr. Karel Černý, Ph.D.,
Institute of the History of Medicine and Foreign Languages, First Faculty of Medicine, Charles University

Prof. MUDr. Jan Daneš, CSc.,
Department of Radiodiagnostics, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Pavel Dundr, Ph.D.,
Department of Pathology, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. René Foltán, Ph.D.,
Department of Dentistry, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Tomáš Hanuš, DrSc.,
Department of Urology, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Jarmila Heissigerová, Ph.D.,
Department of Ophthalmology, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Michal Holub, Ph.D.,
Department of Infectious Diseases, First Faculty of Medicine, Charles University, and the University Military Hospital

Assoc. Prof. MUDr. David Hoskovec, Ph.D.,
1st Department of Surgery, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Otomar Kittnar, CSc.,
Department of Physiology, First Faculty of Medicine, Charles University

Prof. MUDr. Pavel Klener, Ph.D.,
Department of Pathological Physiology, First Faculty of Medicine, Charles University

Prof. RNDr. Libuše Kolářová, CSc.,
Department of Immunology and Microbiology, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Michal Kršek, CSc.,
3rd Department of Internal Medicine, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Ivan Landor, CSc.,
1st Department of Orthopaedics, First Faculty of Medicine, Charles University, and Motol University Hospital

Prof. MUDr. Aleš Linhart, DrSc.,
2nd Department of Internal Medicine, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Robert Lischke, Ph.D.,
3rd Department of Surgery, First Faculty of Medicine, Charles University, and Motol University Hospital

Prof. MUDr. Pavel Martásek, DrSc.,
BIOCEV, Department of Paediatric Medicine and Hereditary Metabolic Disorders, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Pavel Michálek, Ph.D.,
Department of Anaesthesiology, Resuscitation, and Intensive Medicine, First Faculty of Medicine, Charles University, and General University Hospital

Assoc. Prof. MUDr. Ondřej Naňka, Ph.D.,
Institute of Anatomy, First Faculty of Medicine, Charles University

Prof. MUDr. Karel Pavelka, DrSc.,
Department of Rheumatology of the First Faculty of Medicine, Charles University, and the Institute of Rheumatology

Prof. MUDr. Luboš Petruželka, CSc.,
Department of Oncology, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Jan Plzák, Ph.D.,
Department of Otorhinolaryngology and Head and Neck Surgery, First Faculty of Medicine, Charles University, and Motol University Hospital

Prof. MUDr. Evžen Růžička, DrSc.,
Department of Neurology, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Ondřej Slanař, Ph.D.,
Institute of Pharmacology, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Štěpán Svačina, DrSc.,
3rd Department of Internal Medicine, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Ondřej Šeda, Ph.D.,
Institute of Biology and Medical Genetics, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Aleksi Šedo, DrSc.,
Institute of Biochemistry and Experimental Oncology, First Faculty of Medicine, Charles University

Prof. MUDr. Jiří Štork, CSc.,
Department of Dermatology and Venerology, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Vladimír Tesař, DrSc.,
Department of Nephrology, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Marek Trněný, CSc.,
1st Department of Internal Medicine, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Martina Koziar Vašáková, Ph.D.,
Department of Pulmonology, First Faculty of Medicine, Charles University, and Thomayer University Hospital
 Prof. MUDr. Libor Vítek, Ph.D.,
Department of medical Biochemistry and Laboratory Diagnostics, First Faculty of Medicine, Charles University, and General University Hospital

External Members:

Prof. MUDr. Pavel Anzenbacher, DrSc.,
Institute of Pharmacology of the Medical Faculty of Palacký University and University Hospital Olomouc
 RNDr. Martin Bílej, DrSc.,
Institute of Microbiology of Academy of Sciences of the Czech Republic
 Prof. MUDr. Jiří Ehrmann, Ph.D., (until 31 December 2021),
Institute of Clinical and Molecular Pathology of the Faculty of Medicine, Palacký University, and University Hospital Olomouc
 Prof. MUDr. David Feltl, Ph.D.,
General University Hospital
 Assoc. Prof. MUDr. Vojtěch Hainer, CSc.,
Institute of Endocrinology, Prague
 Prof. MUDr. Kateřina Kaňková, Ph.D.,
Institute of Pathological Physiology of the Faculty of Medicine, Masaryk University
 Prof. MUDr. Milan Kolář, Ph.D.,
Faculty of Medicine, Palacký University
 RNDr. Vladimír Kořínek, CSc.,
Institute of Molecular Genetics of the Academy of Sciences of the Czech Republic, P.R.I.
 Prof. MUDr. Rom Kostřica, CSc.,
Department of Otorhinolaryngology and Head and Neck Surgery, Medicine, Masaryk University, and St. Anne University Hospital
 Assoc. Prof. MUDr. Beatrice Mohelníková Duchoňová, Ph.D.,
Department of Oncology of the Faculty of Medicine, Palacký University, and University Hospital Olomouc
 RNDr. Šárka Němečková, DrSc.,
Institute of Haematology and Blood Transfusion

Prof. MUDr. Sergej Zacharov, Ph.D.,
Department of Occupational Medicine, First Faculty of Medicine, Charles University, and General University Hospital
 Prof. MUDr. Jiří Zeman, DrSc.,
Department of Paediatrics and Hereditary Metabolic Disorders, First Faculty of Medicine, Charles University, and General University Hospital

Prof. MUDr. Roman Prymula, CSc., Ph.D., until 21 June 2021,
Faculty of Medicine in Hradec Králové
 Prof. Ing. Rudolf Poledne, CSc.,
Institute of Clinical and Experimental Medicine
 Prof. Ing. Tomáš Ruml, CSc.,
Institute of Biochemistry and Microbiology, University of Chemistry and Technology, Prague
 Ing. Zdeňka Sedláková, CSc.,
Institute of Macromolecular Chemistry of the Academy of Sciences of the Czech Republic, P.R.I.
 Prof. Ing. Vladimír Setnička, Ph.D.,
Faculty of Chemical Engineering of the University of Chemistry and Technology, Institute of Analytic Chemistry
 Prof. Ing. Bohdan Schneider, CSc., DSc., since 22 June 2021,
Institute of Biotechnology of the Academy of Sciences of the Czech Republic, P.R.I.
 Prof. MUDr. Martin Smrčka, Ph.D.,
Department of Neurosurgery of the Faculty of Medicine, Masaryk University, and University Hospital Brno–Bohunice
 Mgr. Jaroslav Truksa, Ph.D.,
Biocev, Institute of Biotechnology of the Academy of Sciences of the Czech Republic, P.R.I.
 Prof. Ing. Michael Valášek, DrSc.,
Faculty of Mechanical Engineering of the Czech Technical University
 Assoc. Prof. MUDr. Dalibor Valík, Ph.D.,
Department of Paediatric Oncology of the Faculty of Medicine, Masaryk University, Institute of Pharmacology
 Assoc. Prof. MUDr. Jan Veverka, CSc.,
Private Centre for Dental Care



*Prof. Otomar Kittnar, CSc., MBA,
Vice-Dean for Development of the Faculty
and External Relations*

In 2020, we had defined the basic targets of strategic development of our Faculty for several years to come. In teaching, this concerns especially the promotion and implementation of modern teaching methods and a development of competencies of both teachers and graduates. In science, development should focus mainly on updating existing research infrastructure, creation of conditions for higher success rate in doctoral studies, support to postdocs, and professionalisation of grant and project applications. Starting last year, we started implementing steps that should lead to improvement in practical skills of our graduates. For instance, in the teaching of clinical subjects we are expanding the use of simulation methods and we are currently preparing a strategy of gradual introduction of this style of teaching also into other areas. Our goal is to make it within certain defined areas an integral part of standard clinical instruction of our students, especially in the course of General Medicine.

In the past 'Covid' years, we found no calls of importance relevant to us within the operational programmes of EU funds. In the near future, we also do not expect any significant calls for submission of new projects, which is why we must – just like in the years just past – focus on successfully completing currently ongoing projects. In the last year, the key challenge came in the form of the National Programme of Renewal (NPO) and our Faculty was busy preparing individual projects that could be financed from this programme. The main task of the Faculty, though, is to prepare, systematically and in high quality, the finalisation of particular projects in teaching and research and manage their financing from the NPO.

In the Albertov Campus project, we have last year witnessed the ceremonial and hence also formal start of construction of the Biocenter project. At this point, everything is ready on our part for the start of archaeological exploration and digging works, but due to the still not finalised issue of financing of the project on the part of state institutions, a concrete date of start of works remains unclear. The Biocev institute, which focuses on basic biomedical research, has been developing dynamically and successfully. It offers optimal conditions for reaching research targets defined in the Biocev project, which was launched in the new premises in January 2016.

Changes in the management of organisational units in 2021

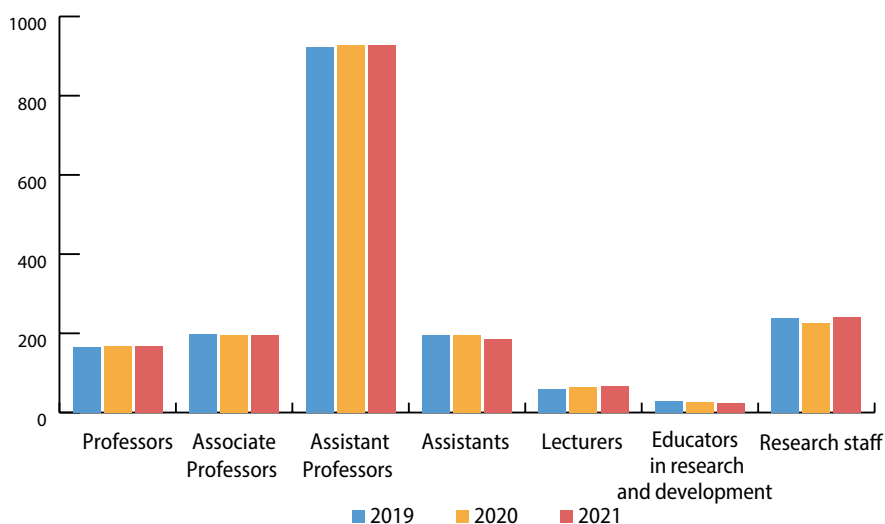
Department	New heads of departments
Institute of Anatomy of the First Faculty of Medicine, Charles University	Assoc. Prof. MUDr. Ondřej Naňka, Ph.D.
Department of Surgery of the First Faculty of Medicine, Charles University, and Bulovka University Hospital	Assoc. Prof. MUDr. Jan Fanta, DrSc.
Department of Palliative Medicine of the First Faculty of Medicine, Charles University, and the General University Hospital	Assoc. Prof. MUDr. MgA. Kateřina Rusinová, Ph.D.
Department of Urology of the First Faculty of Medicine, Charles University, and the General University Hospital	Prof. MUDr. Viktor Soukup, Ph.D.
Department of Phoniatrics of the First Faculty of Medicine, Charles University, and General University Hospital	Assoc. Prof. PaedDr. Karel Neubauer, Ph.D.
Dean's Office	Ing. Tereza Lukášová
Grant Department	Mgr. Kamila Kábeleová

Numbers of research and teaching staff in 2019–2021

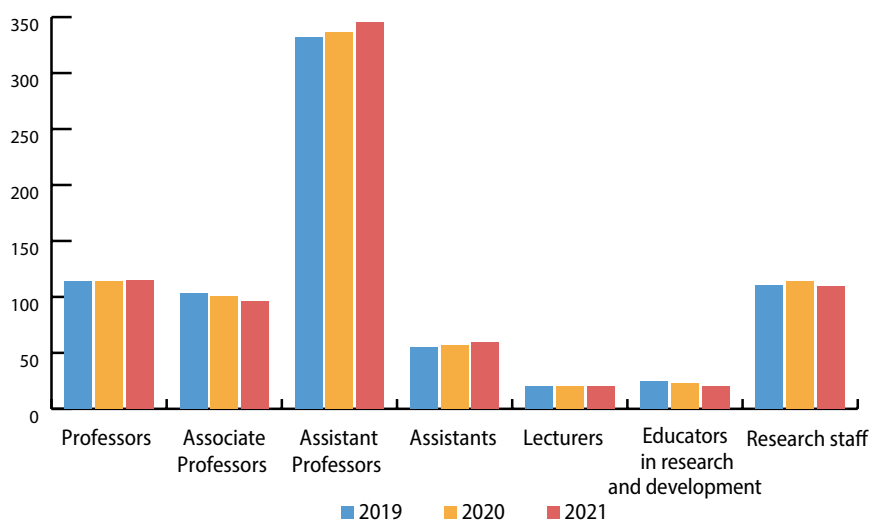
	2019		2020		2021	
	No. of persons employed	Average converted to employee number	No. of persons employed	Average converted to employee number	No. of persons employed	Average converted to employee number
Professors	166	114,263	167	113,714	169	115,038
Associate Professors	199	103,222	196	100,743	195	95,886
Assistant Professors	923	331,683	927	336,121	929	345,064
Assistants	196	54,543	196	56,44	186	59,708
Lecturers	60	20,088	64	20,244	67	20,239
Educators in research and development	28	24,605	26	23,05	23	20,258
Research staff	239	110,096	227	114,344	240	109,85
Total	1.811	758,5	1.803	764,656	1.809	766,043

Physical numbers of employees are always listed as of 31st December of the year in question.

Structure of research and teaching staff - no. of physical persons



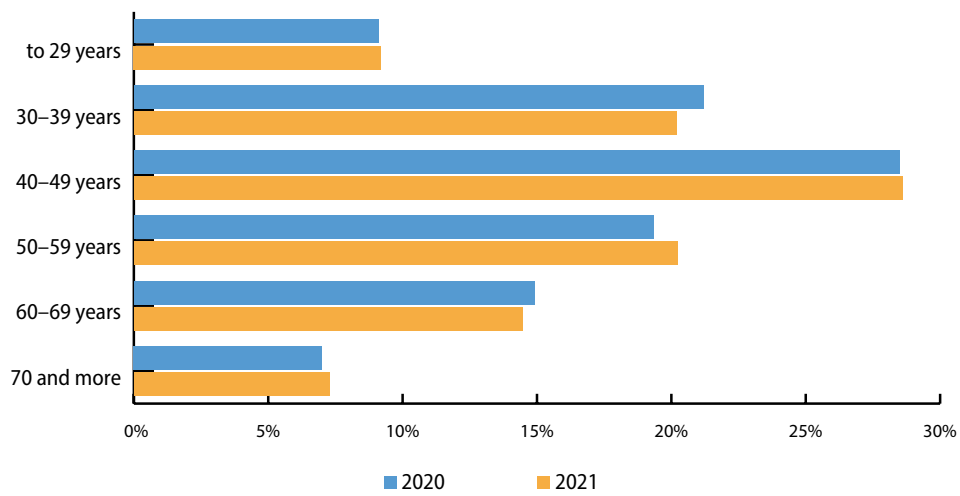
Structure of research and teaching staff - Average converted numbers



Survey of staff composition by age, 2020–2021

Age	Ratio in %	
	2020	2021
Under 29 years	9.09	9.2
30–39 years	21.19	20.2
40–49 years	28.5	28.6
50–59 years	19.33	20.24
60–69 years	14.9	14.47
70 years and more	7	7.29
Total	100	100

Survey of composition of the staff by age



APPOINTMENTS OF NEW PROFESSORS AND ASSOCIATE PROFESSORS IN 2021



In 2021, sessions of the Scientific Board of the First Faculty of Medicine of the Charles University discussed a total of ten proposals for appointments to professorial chairs. All proposals were adopted and submitted to the Rector's Office for further processing. Scientific Board of the Charles University had discussed a total of ten proposals submitted by the First Faculty of Medicine of the Charles University, all were approved and submitted for further processing to the Ministry of Education of the Czech Republic. In 2021, the President had appointed nine new professors (two female and seven male) who had been proposed by the First Faculty of Medicine of the Charles University. Scientific Board of the First Faculty of Medicine had also discussed 19 habilitation procedures. In the course of 2021, Rector of the Charles University had appointed 21 new associate professors (7 female and 14 male) whose habilitation took place at the First Faculty of Medicine of the Charles University.

Professors appointed in 2021

Name and institution	Field	Scientific Board of the 1 st Faculty of Medicine	Scientific Board of the Charles University	Appointed professor effective as of
Assoc. Prof. MUDr. Sergej Zacharov, Ph.D. Department of Occupational Medicine of the First Faculty of Medicine, Charles University, and General University Hospital	Occupational medicine	22 September 2020	26 November 2020	8 May 2021
Assoc. Prof. MUDr. Pavel Jansa, Ph.D. 2 nd Department of Internal Medicine of the First Faculty of Medicine, Charles University, and General University Hospital	Internal medicine	25 November 2020	25 February 2021	8 May 2021
Assoc. Prof. MUDr. Vojtěch Melenovský, CSc. 2 nd Department of Internal Medicine of the First Faculty of Medicine, Charles University, and General University Hospital; IKEM – Cardiology Department	Internal medicine	16 December 2020	29 April 2021	15 December 2021
Assoc. Prof. MUDr. Lukáš Lambert, Ph.D. Department of Radiodiagnostics of the First Faculty of Medicine, Charles University, and General University Hospital	Radiology	27 January 2021	29 April 2021	15 December 2021
Assoc. Prof. MUDr. Tomáš Hucl, Ph.D. IKEM – Department of Hepato-Gastroenterology; 4 th Department of Internal Medicine of the First Faculty of Medicine, Charles University, and General University Hospital	Internal medicine	31 March 2021	27 May 2021	15 December 2021
Assoc. Prof. Mgr. Kateřina Jirsová, Ph.D. Institute of Biology and Medical Genetics of the First Faculty of Medicine, Charles University, and General University Hospital	Medical biology and genetics	31 March 2021	27 May 2021	15 December 2021

Name and institution	Field	Scientific Board of the 1 st Faculty of Medicine	Scientific Board of the Charles University	Appointed professor effective as of
Assoc. Prof. MUDr. Petra Lišková, MD, Ph.D. Department of Ophthalmology of the First Faculty of Medicine, Charles University, and General University Hospital; Department of Paediatrics and Hereditary Metabolic Disorders of the First Faculty of Medicine, Charles University, and General University Hospital	Ophthalmology	28 April 2021	23 September 2021	15 December 2021
Assoc. Prof. MUDr. Petr Zach, CSc. Institute of Anatomy of the Third Faculty of Medicine of the Charles University	Anatomy, histology, and embryology	26 May 2021	23 September 2021	15 December 2021
Assoc. Prof. MUDr. Alan Stolz, Ph.D. Department of Surgery of the Second Faculty of Medicine of the Charles University and Motol University Hospital; 3 rd Department of Surgery of the First Faculty of Medicine, Charles University, and General University Hospital	Surgery	26 May 2021	24 June 2021	15 December 2021

PROFESSORIAL APPOINTMENT PROCEDURES BROUGHT BEFORE THE SCIENTIFIC BOARD OF THE FIRST FACULTY OF MEDICINE OF THE CHARLES UNIVERSITY IN 2021

Assoc. Prof. MUDr. Lukáš Lambert, Ph.D.

Department of Radiodiagnosis of the First Faculty of Medicine, Charles University, and General University Hospital
Appointment procedure in the field of **radiology**
Scientific Board of the First Faculty of Medicine, Charles University: 27 January 2021
Lecture title: Progress in computational tomography towards examination with low radiation load and increased diagnostic value
Scientific Board of the Charles University: 29 April 2021

Assoc. Prof. MUDr. Tomáš Hucl, Ph.D.

IKEM – Department of Hepato-Gastroenterology; 4th Department of Internal Medicine of the First Faculty of Medicine, Charles University, and General University Hospital
Appointment procedure in the field of **internal diseases**
Scientific Board of the First Faculty of Medicine of the Charles University: 31 March 2021
Lecture title: Carcinoma of the pancreas: Molecular biology, diagnosis, treatment
Scientific Board of the Charles University: 27 May 2021

Assoc. Prof. Mgr. Kateřina Jirsová, Ph.D.

Institute of Biology and Medical Genetics of the First Faculty of Medicine of the Charles University a General University Hospital
Appointment procedure in the field of **medical biology and genetics**
Scientific Board of the First Faculty of Medicine of the Charles University: 31 March 2021
Lecture title: The importance of imprint cytology for the examination of eye surface
Scientific Board of the Charles University: 27 May 2021

Assoc. Prof. MUDr. Petra Lišková, MD, Ph.D.

Department of Ophthalmology of the First Faculty of Medicine of the Charles University and General University

Hospital; Department of Paediatrics and Hereditary Metabolic Disorders of the First Faculty of Medicine of the Charles University a General University Hospital
Appointment procedure in the field of **ophthalmology**
Scientific Board of the First Faculty of Medicine of the Charles University: 28 May 2021
Lecture title: Corneal dystrophies: From molecular genetics to new therapeutic possibilities
Scientific Board of the Charles University: 23 September 2021

Assoc. Prof. MUDr. Petr Zach, CSc.

Institute of Anatomy of the Third Faculty of Medicine of the Charles University
Appointment procedure in the field of **anatomy, histology, and embryology**
Scientific Board of the First Faculty of Medicine of the Charles University: 26 May 2021
Lecture title: Asymmetry of CNS structures in neuropsychiatric disorders: From neurohistology to modern imaging techniques
Scientific Board of the Charles University: 23 September 2021

Assoc. Prof. MUDr. Alan Stolz, Ph.D.

Department of Surgery of the Second Faculty of Medicine, Charles University, and Motol University Hospital; 3rd Department of Surgery of the First Faculty of Medicine, Charles University, and Motol University Hospital
Appointment procedure in the field of **surgery**
Scientific Board of the First Faculty of Medicine of the Charles University: 26 May 2021
Lecture title: Lung resection: From Diviš to da Vinci
Scientific Board of the Charles University: 24 June 2021

Assoc. Prof. MUDr. Tomáš Grus, Ph.D.

2nd Department of Surgery of the First Faculty of Medicine, Charles University, and General University Hospital
Appointment procedure in the field of **surgery**

Scientific Board of the First Faculty of Medicine of the Charles University: 20 October 2021
 Lecture title: The development of composite vein replacements and collagen foams from fish collagen with programmable disintegration and release of therapeutics
Scientific Board of the Charles University: 25 November 2021

Assoc. Prof. MUDr. Jan Vevera, Ph.D.

Department of Psychiatry of the Faculty of Medicine of the Charles University in Pilsen and University Hospital Pilsen; Department of Psychiatry of the First Faculty of Medicine of the Charles University a General University Hospital
 Appointment procedure in the field of **psychiatry**
 Scientific Board of the First Faculty of Medicine of the Charles University: 20 October 2021
 Lecture title: Biological and environmental factors affecting violent behaviour
Scientific Board of the Charles University: 25 November 2021

Assoc. Prof. MUDr. Dita Maixnerová, Ph.D.

Department of Nephrology of the First Faculty of Medicine, Charles University, and General University Hospital
 Appointment procedure in the field of **internal diseases**
 Scientific Board of the First Faculty of Medicine of the Charles University: 24 November 2021
 Lecture title: IgA nephropathy
Scientific Board of the Charles University: 27 January 2022

Assoc. Prof. MUDr. Tomáš Büchler, Ph.D.

Department of Oncology of the First Faculty of Medicine, Charles University, Thomayer University Hospital
 Appointment procedure in the field of **oncology**
 Scientific Board of the First Faculty of Medicine of the Charles University: 15 December 2021
 Lecture title: Optimisation of treatment of metastatic renal carcinoma
Scientific Board of the Charles University: 28 April 2022

Assistant professors appointed in 2021

Name and institution	Field	Title of habilitation thesis	Defence at the Scientific Board of the First Faculty of Medicine	Appointed assistant professor effective as of
MUDr. Filip Burget, Ph.D. 1 st Department of Surgery of the First Faculty of Medicine, Charles University, and General University Hospital	Surgery	Readiness of hospitals for critical situations due to mass disasters with focus on terrorist attacks	25 November 2020	1 February 2021
MUDr. Zdeněk Čada, Ph.D. Department of Otorhinolaryngology and Head and Neck Surgery of the First Faculty of Medicine, Charles University and Motol University Hospital	Otorhinolaryngology	Vestibular compensation in unilateral peripheral vestibular lesion	25 November 2020	1 February 2021
MUDr. Jana Ježková, Ph.D. 3rd Department of Internal Medicine of the First Faculty of Medicine, Charles University, and General University Hospital	Internal medicine	The use of stereotactic radiosurgery in the treatment of hypophyseal adenomas from the perspective of an endocrinologist	25 November 2020	1 February 2021
Mgr. et Ing. Blanka Stibůrková, Ph.D. Institute of Rheumatology; Department of Paediatrics and Hereditary Metabolic Disorders of the First Faculty of Medicine, Charles University, and General University Hospital	Medical biology and genetics	Primary dysuricemia: Current knowledge and our contribution to the research of molecular pathogenesis	16 December 2020	1 March 2021
MUDr. Jiří Kubeš, Ph.D. Institute of Radiation Oncology of the First Faculty of Medicine, Charles University, and Bulovka University Hospital; Proton Centre	Oncology	Possibilities of influencing the therapeutic ratio in radiation oncology	16 December 2020	1 April 2021
MUDr. Petr Vaněk, Ph.D. Department of Neurosurgery and Neuro-oncology of the First Faculty of Medicine, Charles University, and Central Military Hospital	Neurosurgery	Specific features of surgical treatment of rheumatic affection of the spine	27 January 2021	1 April 2021
MUDr. Laura Krekulová, Ph.D. 4 th Department of Internal Medicine of the First Faculty of Medicine, Charles University, General University Hospital; Remedis	Internal medicine	Viral hepatitis C in high-risk populations in the Czech Republic. A set of published research with a commentary.	27 January 2021	1 April 2021

Name and institution	Field	Title of habilitation thesis	Defence at the Scientific Board of the First Faculty of Medicine	Appointed assistant professor effective as of
MUDr. Petr Fulín, Ph.D. Department of Orthopaedics of the First Faculty of Medicine of the Charles University a FN Motol	Orthopaedics	The quality of articulation surfaces and its impact on the process of early failure of joint replacements	24 February 2021	1 June 2021
MUDr. Miroslav Špaček, Ph.D. 2 nd Department of Surgery of the First Faculty of Medicine of the Charles University a General University Hospital	Surgery	Diagnosis and treatment of infection of vascular replacements	24 February 2021	1 June 2021
PharmDr. Magdaléna Šustková, CSc. Institute of Pharmacology of the Third Faculty of Medicine, Charles University	Medical pharmacology	Ghrelin/ GHS-R1A antagonism in the mechanisms of opioid and methamphetamine addiction	24 February 2021	1 June 2021
MUDr. Radek Kaiser, Ph.D. Department of Neurosurgery and neuro-oncology of the First Faculty of Medicine, Charles University, and Central Military Hospital	Neurosurgery	Lumbosacral discopathy	31 March 2021	1 June 2021
MUDr. Mária Filková, Ph.D. Department of Rheumatology of the First Faculty of Medicine, Charles University, and Institute of Rheumatology	Internal medicine	Pathophysiological mechanisms and prognostic indicators of the most frequent inflammatory rheumatic disorders	28 April 2021	1 July 2021
MUDr. Janka Franeková, Ph.D. Institute of Immunology and clinical biochemistry of the Third Faculty of Medicine, Charles University; IKEM	Clinical Biochemistry	Clinical biochemistry in transplantation medicine	28 April 2021	1 July 2021
MUDr. Taťána Šrámková, Ph.D. Department of Traumatology of the Faculty of Medicine, Masaryk University; Department of Urology of the First Faculty of Medicine, Charles University and General University Hospital	Sexology	Sexual disorders in somatically ill patients and their treatment	26 May 2021	1 August 2021
MUDr. Petr Libánský, Ph.D. 3 rd Department of Surgery of the First Faculty of Medicine, Charles University, and Motol University Hospital	Surgery	Surgical treatment of primary hyperparathyroidism	16 June 2021	1 October 2021
MUDr. Jiří Slíva, Ph.D. Institute of Pharmacology of the Third Faculty of Medicine, Charles University	Medical pharmacology	New trends in pain treatment	16 June 2021	1 October 2021
MUDr. Jan Ulrych, Ph.D. 1 st Department of Surgery of the First Faculty of Medicine, Charles University, and General University Hospital	Surgery	Surgical infections of the skin and soft tissues	16 June 2021	1 October 2021
MUDr. Jiří Votruba, Ph.D. 1 st Department of Tuberculosis and Respiratory Diseases of the First Faculty of Medicine, Charles University, and General University Hospital	Internal medicine	Methods of early diagnosis of bronchogenic carcinoma	16 June 2021	1 October 2021
MUDr. Michal Koucký, Ph.D. Department of Gynaecology and Obstetrics of the First Faculty of Medicine, Charles University, and General University Hospital	Gynaecology and obstetrics	Current perspective on the background and management of spontaneous premature delivery	22 September 2021	1 December 2021
Mgr. Tomáš Nikolai, Ph.D. Department of Neurooncology of the First Faculty of Medicine, Charles University, and General University Hospital	Medical psychology	Neuropsychological aspects of preclinical and prodromal stage of Alzheimer disease	22 September 2021	1 December 2021
PharmDr. Martin Šíma, Ph.D. Institute of Pharmacology of the First Faculty of Medicine, Charles University, and General University Hospital	Medical pharmacology	Variability of pharmacokinetics and its deployment in optimisation of pharmacotherapy	22 September 2021	1 December 2021

HABILITATION PROCEDURES THAT TOOK PLACE IN FRONT OF THE SCIENTIFIC BOARD OF THE FIRST FACULTY OF MEDICINE OF THE CHARLES UNIVERSITY IN 2021

MUDr. Petr Vaněk, Ph.D.

Department of Neurosurgery and Neurooncology of the First Faculty of Medicine, Charles University, and Central Military Hospital
 Habilitation in the field of: **Neurosurgery**
 Scientific Board of the First Faculty of Medicine of the Charles University: 27 January 2021
 Lecture title: Surgical treatment of rheumatic affection of crano-cervical junction
Appointment effective as of 1 April 2021

MUDr. Laura Krekulová, Ph.D.

4th Department of Internal Medicine of the First Faculty of Medicine, Charles University, and General University Hospital; Remedis
 Habilitation in the field of: **Internal medicine**
 Scientific Board of the First Faculty of Medicine of the Charles University: 27 January 2021
 Lecture title: Viral hepatitis C in high-risk populations in the Czech Republic: From diagnosis to elimination
Appointment effective as of 1 April 2021

MUDr. Petr Fulín, Ph.D.

Department of Orthopaedics of the First Faculty of Medicine, Charles University, and Motol University Hospital
 Habilitation in the field of: **Orthopaedics**
 Scientific Board of the First Faculty of Medicine of the Charles University: 24 February 2021
 Lecture title: The quality of articulation surfaces and its effect on the process of early failure of joint replacements
Appointment effective as of 1 June 2021

MUDr. Miroslav Špaček, Ph.D.

2nd Department of Surgery of the First Faculty of Medicine, Charles University, and General University Hospital
 Habilitation in the field of: **Surgery**
 Scientific Board of the First Faculty of Medicine of the Charles University: 24 February 2021
 Lecture title: A contribution to the diagnosis and treatment of infection of vein replacements
Appointment effective as of 1 June 2021

PharmDr. Magdaléna Šustková, CSc.

Department of Pharmacology of the Third Faculty of Medicine of the Charles University
 Habilitation in the field of: **Medical pharmacology**
 Scientific Board of the First Faculty of Medicine of the Charles University: 24 February 2022
 Lecture title: Ghrelin/GHS-R1A antagonism in the mechanisms of opioid and methamphetamine addiction
Appointment effective as of 1 June 2021

MUDr. Radek Kaiser, Ph.D.

Department of Neurosurgery and Neurooncology of the First Faculty of Medicine, Charles University, and Central Military Hospital
 Habilitation in the field of: **Neurosurgery**
 Scientific Board of the First Faculty of Medicine of the Charles University: 31 March 2021
 Lecture title: Factors affecting the diagnosis and treatment of the cauda equina syndrome
Appointment effective as of 1 June 2021

MUDr. Mária Filková, Ph.D.

Department of Rheumatology of the First Faculty of Medicine, Charles University, and the Institute of Rheumatology
 Habilitation in the field of: **Internal medicine**
 Scientific Board of the First Faculty of Medicine of the Charles University: 28 April 2021
 Lecture title: Pathophysiological mechanisms and prognostic indicators of rheumatoid arthritis
Appointment effective as of 1 July 2021

MUDr. Janka Franeková, Ph.D.

Institute of Immunology and Clinical Biochemistry of the Third Faculty of Medicine of the Charles University; IKEM
 Habilitation in the field of: **Clinical biochemistry**
 Scientific Board of the First Faculty of Medicine of the Charles University: 28 April 2021
 Lecture title: Clinical biochemistry in transplantation medicine, using Galectin-3 as an example
Appointment effective as of 1 July 2021

MUDr. Taťána Šrámková, Ph.D.

Department of Traumatology of the Faculty of Medicine of the Masaryk University, Brno; Department of Urology of the First Faculty of Medicine, Charles University, and General University Hospital
 Habilitation in the field of: **Sexology**
 Scientific Board of the First Faculty of Medicine of the Charles University: 26 May 2021
 Lecture title: Disorders of sexuality in the somatically ill and their treatment
Appointment effective as of 1 August 2021

MUDr. Petr Libánský, Ph.D.

3rd Department of Surgery of the First Faculty of Medicine, Charles University, and Motol University Hospital
 Habilitation in the field of: **Surgery**
 Scientific Board of the First Faculty of Medicine of the Charles University: 16 June 2021
 Lecture title: Surgical treatment of primary hyperparathyroidism
Appointment effective as of 1 October 2021

MUDr. Jiří Slíva, Ph.D.

Institute of Pharmacology of the Third Faculty of Medicine,
Charles University

Habilitation in the field of: **Medical pharmacology**

Scientific Board of the First Faculty of Medicine
of the Charles University: 16 June 2021

Lecture title: New trends in pain treatment

Appointment effective as of 1 October 2021

MUDr. Jan Ulrych, Ph.D.

1st Department of Surgery of the First Faculty of Medicine,
Charles University, and General University Hospital

Habilitation in the field of: **Surgery**

Scientific Board of the First Faculty of Medicine
of the Charles University: 16 June 2021

Lecture title: Surgical infections of the skin and soft tissues
with focus on communal abscesses and phlegmons

Appointment effective as of 1 October 2021

MUDr. Jiří Votruba, Ph.D.

1st Department of Tuberculosis and Respiratory Diseases
of the First Faculty of Medicine, Charles University,
and General University Hospital

Habilitation in the field of: **Internal medicine**

Scientific Board of the First Faculty of Medicine
of the Charles University: 16 June 2021

Lecture title: Methods of early diagnosis of bronchogenic
carcinoma

Appointment effective as of 1 October 2021

MUDr. Michal Koucký, Ph.D.

Department of Gynaecology and Obstetrics of the First
Faculty of Medicine, Charles University, and General
University Hospital

Habilitation in the field of: **Gynaecology and obstetrics**

Scientific Board of the First Faculty of Medicine
of the Charles University: 22 September 2021

Lecture title: Current perspective on the background and
management of spontaneous premature delivery

Appointment effective as of 1 December 2021

Mgr. Tomáš Nikolai, Ph.D.

Department of Neurology of the First Faculty of Medicine,
Charles University, and General University Hospital

Habilitation in the field of: **Medical Psychology**

Scientific Board of the First Faculty of Medicine
of the Charles University: 22 September 2021

Lecture title: Neuropsychological aspects of preclinical
and prodromal stage of Alzheimer disease

Appointment effective as of 1 December 2021

PharmDr. Martin Šíma, Ph.D.

Institute of Pharmacology of the First Faculty of Medicine,
Charles University, and General University Hospital

Habilitation in the field of: **Medical pharmacology**

Scientific Board of the First Faculty of Medicine of the Charles
University: 22 September 2021

Lecture title: Variability of pharmacokinetics of therapeutic
substances and its use in optimisation of pharmacotherapy

Appointment effective as of 1 December 2021

MUDr. Petr Dušek, Ph.D.

Department of Neurology of the First Faculty of Medicine,
Charles University, and General University Hospital

Habilitation in the field of: **Neurology**

Scientific Board of the First Faculty of Medicine
of the Charles University: 20 October 2021

Lecture title: Neuroimaging markers of Wilson disease

Appointment effective as of 1 February 2021

MUDr. Veronika Válková, CSc.

Institute of Haematology and Blood Transfusion; Institute of
Clinical and Experimental Haematology of the First Faculty of
Medicine, Charles University, and General University Hospital

Habilitation in the field of: **Internal medicine**

Scientific Board of the First Faculty of Medicine of the Char-
les University: 24 November 2021

Lecture title: Allogeneous transplantation of hematopoietic
stem cells as an instrument of nonspecific immunotherapy
in the treatment of haematological malignancies: Experiences
and perspectives

Appointment effective as of 1 February 2022

MUDr. Martin Molitor, Ph.D.

Department of Plastic Surgery of the First Faculty
of Medicine, Charles University, and Bulovka University Hospital

Habilitation in the field of: **Surgery**

Scientific Board of the First Faculty of Medicine
of the Charles University: 15 December 2021

Lecture title: Transplantation in reconstruction surgery

Appointment effective as of 1 April 2022

MUDr. MgA. Kateřina Rusinová, Ph.D.

Department of Palliative Medicine of the First Faculty of Medi-
cine, Charles University, and General University Hospital

Habilitation in the field of:

Anaesthesiology and Resuscitation

Scientific Board of the First Faculty of Medicine
of the Charles University: 15 December 2021

Lecture title: Ethics and Communication in Intensive Medicine

Appointment effective as of 1 February 2022

An overview of fields for habilitation procedures and procedures leading to professorial appointments at the First Faculty of Medicine of the Charles University and validity of their accreditation

Field	Accreditation of habilitation procedures until	Accreditation of appointment procedures until
Anatomy, histology, and embryology	13 October 2029	13 October 2029
Anaesthesiology and resuscitation	15 September 2029	15 September 2029
Bioethics	11 February 2025	11 February 2025
History of medicine	23 March 2032	23 March 2027
Dermato-venerology	7 January 2025	7 January 2025
Gynaecology and obstetrics	31 December 2023	31 December 2023
Hygiene and epidemiology	15 September 2029	15 September 2029
Surgery	1 November 2023	1 November 2023
Infectious diseases	31 December 2023	31 December 2023
Heart surgery	22 April 2032	22 April 2032
Clinical biochemistry	1 August 2029	1 August 2029
Medical biophysics	31 December 2023	31 December 2023
Medical pharmacology	11 August 2029	11 August 2029
Medical physiology	31 December 2023	31 December 2023
Medical biology and genetics	1 August 2029	1 August 2029
Medical chemistry and biochemistry	31 December 2023	31 December 2023
Medical immunology and microbiology	1 August 2029	1 August 2029
Medical informatics	14 August 2029	14 August 2029
Medical psychology	15 September 2029	15 September 2029
Neurosurgery	15 September 2029	15 September 2029
Neurology	31 December 2023	31 December 2023
Nuclear medicine	15 September 2024	15 September 2024
Ophthalmology	1 November 2023	1 November 2023
Oncology	15 September 2029	15 September 2029
Orthopaedics	31 December 2023	31 December 2023
Otorhinolaryngology	15 September 2029	15 September 2029
Pathological physiology	13 October 2029	13 October 2029
Pathology	7 January 2030	7 January 2030
Paediatrics	10 December 2029	10 December 2029
Occupational medicine	31 December 2023	31 December 2023
Psychiatry	15 September 2029	15 September 2029
Radiology	31 December 2023	31 December 2023
Sexology	7 January 2025	7 January 2025
Forensic medicine	13 October 2024	13 October 2024
Dentistry	11 February 2030	11 February 2030
Urology	1 November 2023	1 November 2023
Internal medicine	1 November 2023	1 November 2023



ADMISSION PROCEDURE

New students of general medicine and dentistry for academic year 2021/2022 were accepted based on the results of written tests in physics, chemistry, and biology. Entrance examination into bachelor programmes included only an examination of knowledge in biology, while for follow-up master's programmes, students were accepted based on tests based on knowledge they were supposed to acquire in the bachelor part of the programme.

Certain applicants to the General Medicine programme, bachelor programme Physiotherapy, and follow-up master programme Addictology was accepted based on their outstanding results in secondary school, eventually bachelor studies, without undergoing entrance examinations.

Admissions have also in the form of a bonification taken into account study results from secondary school in mathematics and Czech language and literature; bonus points were awarded to students whose grades in those subjects corresponded to A and B. Several applicants applied for bonus points for successful participation in regional rounds of knowledge competitions ('Olympic Games') organised by the Ministry of Education or for successfully passing Mathematics+.

The First Faculty of Medicine of the Charles University had 3,827 applicants for the study of General Medicine and Dentistry, 1,772 applicants for the study of bachelor programmes, and 200 applicants for the study of follow-up master programmes.

A total of 625 applicants for the study of General Medicine (grades average from secondary school ≤ 1.15 , where 1 is equivalent to A), 20 applicants for the study of Physiotherapy (grades average from secondary school ≤ 1.00), and two applicants to study the follow-up Addictology master programme (average from bachelor studies ≤ 1.50) were accepted without undergoing entrance examinations.

Bonification amounting to 30 points was awarded to 381 applicants for the study of General Medicine, bonification of 15 points was given to 267 applicants for the study of Dentistry; 19 applicants to General Medicine and 7 applicants to Dentistry had applied for bonification for successful participation in regional secondary school knowledge competitions.

A total of 1,623 applicants met the conditions for admission and 870 students had matriculated into the first year in all programmes.

Within the time limitation set by legislation, 70 unsuccessful applicants had appealed; a revision procedure undertaken by the section for studies and student affairs of the Charles University did not grant their appeals. In all cases, the Dean's decision not to accept these students was confirmed.

An overview of applicants and their results in medical master's programmes

Academic year	Study programme	No. of applications	No. of students taking entrance exams	Enrolled out of students admitted	Points needed for admission	No. of points possible	Success rate in tests	No. of appeals	% of appeals from those examined	% of appeals from those not admitted
2015/2016	General Medicine	3,555	2,461	416	193	310	62.26%	125	5.08%	6.2%
	Dentistry	1,129	849	43	246	310	79.35%	35	4.12%	4.26%
	Total	4,684	3,310	459				160	4.83%	5.64%
2016/2017	General Medicine	3,290	2,005	440	166	310	53.55%	114	5.69%	7.26%
	Dentistry	972	664	44	223	310	71.94%	15	2.26%	2.65%
	Total	4,262	2,669	484				129	4.83%	5.2%
2017/2018	General Medicine	3,143	2,446	370	180	320	56.25%	70	2.86%	4.51%
	Dentistry	943	759	46	244	310	78.71%	17	2.24%	2.5%
	Total	4,086	3,205	416				87	2.71%	3.9%
2018/2019	General Medicine	2,560	1,748	459	157	320	49.06%	67	3.83%	7.43%
	Dentistry	676	482	50	258	310	83.23%	11	2.28%	2.71%
	Total	3,236	2,230	509				78	3.5%	5.96%
2019/2020	General Medicine	3,037	1,794	539	122	270	45.19%	49	2.73%	6.05%
	Dentistry	862	626	52	160	270	59.26%	15	2.4%	2.66%
	Total	3,899	2,420	591				64	2.64%	4.66%
2020/2021	General Medicine	2,737	1,717	482	100	270	37.04%	23	1.34%	5.2%
	Dentistry	888	691	50	152	270	56.3%	12	1.74%	1.94%
	Total	3,625	2,408	532				35	1.45%	3.3%
2021/2022	General Medicine	2,826	1,510	575	102	270	37.78%	36	2.38%	3.94%
	Dentistry	937	676	47	152	240	63.33%	15	2.21%	2.45%
	Total	3,763	2,186	632				51	2.33%	3.29%

*Prof. MUDr. Jana Dušková, DrSc., MBA,
Vice-Dean for Admissions*



An overview of applicants and their outcomes in non-medical bachelor programmes

Academic year	Study programme (FT – full-time; CF – combined)	No. of applications	No. of students taking entrance exams	Enrolled out of students admitted	Points needed for admission	No. of points possible	Success rate in tests	No. of appeals	% of appeals from those examined	% of appeals from those not admitted
2018/2019	Addictology – FF	139	107	29	80	150	53.33%	1	0.93%	1.43%
	Addictology – CF	128	83	32	77	150	51.33%	4	4.82%	8.33%
	Occupational Therapy	66	52	20	26	100	26%	1	1.92%	5.88%
	Physiotherapy	522	438	25	75	100	75%	5	1.14%	1.30%
	Nutritional Therapy – FF	258	212	22	58	100	58%	5	2.36%	2.98%
	Nutritional Therapy – CF	212	127	30	50	100	50%	4	3.15%	4.35%
	Midwifery	207	178	20	56	100	56%	3	1.69%	2.13%
	Total	1532								
2019/2020	Addictology – FF	226	181	28	93	150	62%	7	3.87%	5%
	Addictology – CF	130	72	34	71	150	47.33%	0	0%	0%
	Occupational Therapy	88	74	15	42	100	42%	3	4.05%	7.69%
	Physiotherapy	577	443	35	69	100	69%	6	1.35%	1.59%
	Nutritional Therapy – FF	302	243	17	61	100	61%	1	0.41%	0.51%
	Nutritional Therapy – CF	174	104	30	47	100	47%	1	0.96%	1.49%
	Midwifery	207	168	14	51	100	51%	2	1.19%	1.61%
	Total	1704								
2020/2021	Addictology – FF	235	185	37	87	150	58%	10	5.41%	7.09%
	Addictology – CF	199	130	41	87	150	58%	0	0%	0%
	Occupational Therapy	138	131	22	46	100	46%	0	0%	0%
	Physiotherapy	555	457	35	71	100	71%	5	1.09%	1.28%
	Nutritional Therapy – FF	224	182	32	53	100	53%	1	0.55%	0.79%
	Nutritional Therapy – CF	162	101	41	41	100	41%	0	0%	0%
	Midwifery	171	135	26	42	100	42%	1	0.74%	1.20%
	Total	1684								

Academic year	Study programme (FT – full-time; CF – combined)	No. of applications	No. of students taking entrance exams	Enrolled out of students admitted	Points needed for admission	No. of points possible	Success rate in tests	No. of appeals	% of appeals from those examined	% of appeals from those not admitted
2021/2022	Addictology – FF	204	143	29	80	150	53.33%	1	0.7%	0.98%
	Addictology – CF	175	90	31	79	150	52.67%	1	1.11%	1.72%
	Occupational Therapy	122	99	22	44	100	44%	3	3.03%	4.84%
	Physiotherapy	583	444	22	65	100	65%	7	1.58%	1.74%
	Nutritional Therapy – FF	246	167	26	47	100	47%	2	1.2%	1.65%
	Nutritional Therapy – CF	170	91	28	46	100	46%	1	1.1%	1.82%
	Midwifery	208	164	25	45	100	45%	1	0.61%	0.75%
	Total	1708	1198	163						

COURSES AND TEACHING

First Faculty of Medicine of the Charles University currently provides undergraduate university education in the following programmes:

- master's programmes in General Medicine and Dentistry,
- bachelor's programmes in Addictology, Physiotherapy, Occupational Therapy, Nutritional Therapy, and Midwifery,
- follow-up master's programmes Addictology, Occupational Therapy for Adults, and Nutrition of Adults and Children.

Programmes Addictology, Nutritional Therapy, Nourishment of Adults and Children, and Occupational Therapy for Adults may be studied in a combined form. Programmes General Medicine and Dentistry and taught both in Czech and in English, in parallel. Instruction in English is intended mainly for paying foreign students.

The Faculty is also active in postgraduate training and supervision of doctoral students in collaboration with other faculties of the Charles University, Academy of Sciences of the Czech Republic, and specialised institutes of the Ministry of Health of the Czech Republic. In short, it plays a significant role in professional specialisation training. The First Faculty of Medicine of the Charles University is one of the founders of the University of the Third Age (U3V), which has been welcoming students since 1987. Our Faculty also helps other faculties in preparing their students, offering courses, including examinations, in some particular subjects.



*Assoc. Prof. MUDr. Andrea Burgetová, Ph.D., MBA,
Vice-Dean for Studies and General Medicine*

ORGANISATION OF STUDIES

Studies at the Faculty are divided in year-long segments. Evaluation is based on a system of credits. When enrolling in a particular section of studies, students register for compulsory subjects for the year in question but also have the opportunity to choose from an offer of 384 optional courses, 76 of which are taught in English.

STUDY OF GENERAL MEDICINE

General Medicine is the largest programme at our Faculty and the course takes six years. The first three years are dedicated to theoretical and preclinical subjects, while the second half of the course deals with clinical subjects. The study follows recommended curricula, which are based on the accreditation of the programme, but the content and structure are continuously evaluated so as to reflect the experience and views of both the teachers and the students. In addition to mandatory courses, the study plan also requires that students each year register for some optional subjects, which they choose within a given year based on their preferences and interests. Credits for optional subjects must form at least 5% of the total number of credits. In each year, students should thus acquire 3 credits for optional subjects. Optional subjects are each year analysed by the Dean's Office and continuously updated (new subjects and subjects to be dropped because they are not used or at their guarantor's suggestion).

UNDERGRADUATE EDUCATION

In 2021, teaching was similarly as in 2020 affected by the Covid-19 pandemic and related epidemic measures. Mechanisms for hybrid forms of instruction, meaning a combination of in-person and distance teaching, were in place since the previous year and were developed further. In clinical subjects, we managed to maintain practical in-person instruction throughout the pandemic – among other things thanks to an exception granted to us by governmental measures for practical and clinical education of medical students.

The theoretical parts of teaching took place in a distance form and were gradually improved both technically and in terms of contents. Experience with distance teaching enabled us to further develop our electronic learning materials to support both teaching and self-study – such materials are an important instrument that helps with improvement of the quality of instruction. This significant expansion of e-learning materials leads to a higher success rate in studies and expands the space available for clinical instruction and training of practical skills. The Faculty had also renewed licences for Amboss, an electronic clinical teaching system that can be used in clinical years of both the Czech and the English course of studies.

In addition to drawing on experiences from the previous 'Covid year', further improvements in the quality of teaching were also based on a regular evaluation of teaching by students and on intensive discussions with student representatives in the Academic Senate and student representatives for particular years of studies. The newly defined roles of student representatives for particular years on the one side and leading teachers for particular years on the other turned out to be extremely beneficial in terms of improving communication between students, teachers, and Faculty management regarding both daily operational problems and systemic issues.

The 'profile of a graduate', which we had prepared and which defines in individual clinical subjects the minimum of both theoretic knowledge and practical skills of a student – including the numbers of conducting particular medical procedures and key situations which each student must be able to address – offers guidelines for further modification of instruction with emphasis on expanding the amount of practical instruction, which is something students have been requesting for some time, while preserving a sufficient amount of theoretical skills. A large shift in this direction took place in surgical subjects. At this point, we are working on subjects from internal medicine, including paediatrics.

Further strengthening of the role of simulation instruction enables us to develop students' clinical and practical knowledge and skills. Simulators became an important additional element in teaching 'at patient's bedside'. We have introduced simulations into the teaching of all subjects which end with state examinations and this approach moreover helped lower the number of students in the group during instruction at patients' bedside. We plan to gradually expand the use of simulation also in the lower years of study, where simulation was so far used mainly to prepare students for work with patients in the optional course Nursing Care. This course was of special importance for our ability to efficiently deploy students in healthcare institutions during the pandemic.

We are further expanding the time which students spend by practical learning by offering a wide range of optional subjects and extracurricular activities, which may be taken in the form of afternoon clubs, shadowing at departments, or by taking on particular shifts. In a pilot operation, we started trying so-called 'flexi' optional subjects focused on the training of clinical and practical skills, which can start in the course of the academic year, thus flexibly reacting to students' demand. We have launched a pilot project of allowing students to access the information system of the General University Hospital, which should help them learn how to work with information systems and simplify clinical work for the students.

The newly established Department of Palliative Medicine had further expanded its offer of courses aimed at boosting students' 'soft skills', which are in medicine just as important as theoretical knowledge and practical skills.

We also emphasise the need to develop the teaching skills of our academic staff. We organise our own courses, promote

university events aimed at this issue, and some of our teachers took course of pedagogy abroad. Very important are courses for teachers of clinical subjects in the area of simulator teaching, which we organise. We involve in these courses also students, current and future tutors, without whose help – as is quickly becoming apparent – simulator learning could not succeed.

In 2021, we organised another round of evaluation of teaching at our Faculty: these regular assessments provide us with feedback regarding the quality of teaching while using objective student surveys, which supplements direct communication with students. It is most satisfying to see that our efforts to improve the quality of teaching are reflected also in student's evaluation. Close cooperation between students and the management of the Faculty, Dean's Board, and the Academic Senate, where students are also represented, modification of organisation of teaching so as to foster its interconnectedness in terms of interdisciplinary collaboration and cooperation between institutes, strengthening of instruction in clinical skills, and support on distance learning – all these are clearly positive elements in the development of instruction at the First Faculty of Medicine and they are bearing fruit. These trends send a good signal not only to our current and future students, but also constitute a task for the entire academic community.

Numbers of students who are Czech nationals

Study Programme	1 st year	2 nd year	3 rd year	4 th year	5 th year	6 th year	7 th year	Total
General Medicine	523	329	294	224	193	242	9	1,814
General Medicine in English (paying students)	3	2	1					6
Dentistry	44	45	33	42	46			210
Dentistry in English (paying students)		1	3		1			5
General Nurse – in combination			1					1
Midwifery	23	20	11					54
Addictology – full-time	33	19	35					87
Addictology – in combination	33	32	30					95
Occupational Therapy	21	17	17					55
Physiotherapy	20	30	34					84
Nutritional Therapy – full-time	27	23	10					60
Nutritional Therapy – in combination	30	30	30					90
NMGr. Occupational Therapy – full-time		1						1
NMGr. Occupational Therapy for Adults – in combination	23	22						45
NMGr. Intensive Care – in combination		15						15
NMGr. Nutritional Specialist – full-time		25						25
NMGr. Nutritional Specialist – in combination		2						2
NMGr. Nutrition in Adults and Children – full-time								
NMGr. Nutrition in Adults and Children – in combination	53							53
NMGr. Addictology – full-time		5						5
NMGr. Addictology – in combination	28	50						78
Total	861	668	499	266	240	242	9	2,785

Student numbers are listed as of 31 October 2021.

Numbers of international students

Study Programme	1 st year	2 nd year	3 rd year	4 th year	5 th year	6 th year	7 th year	Total
General Medicine	101	73	54	53	52	93	3	429
General Medicine in English (paying students)	159	129	119	74	108	108		697
Dentistry	8	6	5	3	11			33
Dentistry in English (paying students)	18	12	17	13	17	1		78
General Nurse – in combination								-
Midwifery	2	2	2					6
Addictology – full-time		3	2					5
Addictology – in combination		2	3					5

Study Programme	1 st year	2 nd year	3 rd year	4 th year	5 th year	6 th year	7 th year	Total
Occupational Therapy	1	1						2
Physiotherapy	1	4	2					7
Nutritional Therapy – full-time	3	1	4					8
Nutritional Therapy – in combination	3	3	2					8
NMgr. Occupational Therapy – full-time								
NMgr. Occupational Therapy for Adults – in combination								
NMgr. Intensive Care – in combination		1						1
NMgr. Nutritional Specialist – full-time		1						1
NMgr. Nutritional Specialist – in combination								
NMgr. Nutrition in Adults and Children – full-time								
NMgr. Nutrition in Adults and Children – in combination	1							1
NMgr. Addictology – full-time								
NMgr. Addictology – in combination	1	1						2
Total	298	239	210	143	188	202	3	1,283

Student numbers are listed as of 31 October 2021.

Out of the above, the number of students enrolled into the 1st year

Study Programme	Czechs	Internationals
General Medicine	485	96
General Medicine in English (paying students)	2	149
Dentistry	41	8
Dentistry in English (paying students)	0	13
General Nurse – in combination	0	0
Midwifery	22	2
Addictology – full-time	29	0
Addictology – in combination	30	0
Occupational Therapy	20	1
Physiotherapy	20	1
Nutritional Therapy – full-time	23	3
Nutritional Therapy – in combination	27	2
NMgr. Occupational Therapy – full-time	0	0
NMgr. Occupational Therapy for Adults – in combination	20	0
NMgr. Intensive Care – in combination	0	0
NMgr. Nutritional Specialist – full-time	0	0
NMgr. Nutritional Specialist – in combination	0	0
NMgr. Nutrition in Adults and Children – in combination	53	1
NMgr. Addictology – full-time	0	0
NMgr. Addictology – in combination	25	1
Total	797	277

Student numbers are listed as of 31 October 2021.

Student numbers (Czech nationals / internationals)

Study Programme	2013		2014		2015		2016		2017		2018		2019		2020		2021	
General Medicine	1,878	648	1,839	682	1,779	614	1,717	613	1,584	534	1,509	504	1,573	438	1,671	437	1,814	429
General Medicine in English (paying students)	667	0	597	0	8	589	8	670	6	687	7	731	8	646	8	680	6	697
Dentistry	345	58	314	54	280	54	234	56	206	49	199	39	199	37	206	34	210	33
Dentistry in English (paying students)	102	0	81	0	3	82	3	75	2	79	2	80	4	79	5	78	5	78
General Nurse – full-time	47	2	25	1	22	7	14	3	9	2	0	0	0	0	2	0	1	-
General Nurse – in combination	115	9	99	7	98	5	78	2	55	2	26	1	10	0	0	0		
Midwifery	0	0	0	0	28	0	35	1	48	3	44	6	37	5	46	6	54	6
Addictology – full-time	68	3	71	2	76	3	72	2	68	3	78	3	78	5	80	6	87	5
Addictology – in combination	98	7	88	6	82	4	80	5	84	6	85	5	88	5	101	8	95	5
Occupational Therapy	55	0	38	0	45	2	39	4	60	5	57	3	57	0	53	1	55	2
Physiotherapy	80	8	86	9	86	13	70	13	79	11	75	9	83	10	89	11	84	7
Nutritional Therapy – full-time	65	2	71	5	62	8	51	6	56	9	62	5	46	7	59	5	60	8
Nutritional Therapy – in combination	72	1	103	4	93	5	93	12	86	8	81	7	82	3	93	7	90	8
NMgr. Occupational Therapy – full-time	0	0	19	0	36	0	34	0	46	0	38	1	19	1	2	1	1	-
NMgr. Occupational Therapy for Adults – in combination	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	45	-
NMgr. Intensive Care – in combination	0	0	28	2	56	2	72	3	92	5	101	8	66	5	36	2	15	1
NMgr. Nutritional Specialist – full-time	0	0	0	0	13	0	28	1	35	1	34	4	27	3	12	1	25	1
NMgr. Nutritional Specialist – in combination	0	0	0	0	30	1	54	1	65	4	66	4	81	4	60	3	2	-
NMgr. Nutrition in Adults and Children – full-time	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
NMgr. Nutrition in Adults and Children – in combination	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	1
NMgr. Addictology – full-time	57	4	56	6	52	3	52	2	40	0	37	0	27	1	17	0	5	-
NMgr. Addictology – in combination	31	1	44	1	67	3	75	3	81	0	75	1	85	0	88	1	78	2
Total	4,423		4,338		4,311		4,281		4,110		3,987		3,819		3,936		4,068	



*Prof. MUDr. René Foltán, Ph.D.,
Vice-Dean for Dentistry*

STUDIES IN DENTISTRY

Like the year before it, 2021 was due to the effects of pandemic of the SARS-CoV-2 virus highly challenging for both teachers and students. We moved the theory and lectures fully into the virtual space of MS Teams. In practical training, the situation was much more complicated. A total failure of the Czech government led to confusing and frequently changing anti-epidemic measures, which is why in the first half of the summer term of 2020/2021, we had to stop practical training altogether. Still, we made up for lost time after relaxation of the initial strict restrictions fully, i.e., both in terms of hours and in terms of content. Practical training took place in markedly smaller groups of five to ten students, which in turn led to an increased teaching load for teachers. Still, we did not stop teaching students from the Erasmus+ exchange programme.

During the second half of the summer term 2020/2021 and in the winter term 2021/2022, we were once again able to deliver practical training fully with actual patients. We used to this purpose a newly refurbished teaching hall whose transformation from open space to individual 'doctors' offices' took place during the summer 2021 vacations. Based on positive reactions from students, teachers, but also patients, we decided to remodel also the upper teaching hall, where project work started in November 2021.

What we also see as very important is the fact that one of our employees, MDDr. Antonín Tichý, PhD., was awarded Josef Hlávka's Prize 2020 (although due to Covid, it was actually handed over only on 1 November 2021) and as an extraordinary Award of Director of the General University Hospital for Young Scientists under 35 for 2020/2021.

STUDIES IN NONMEDICAL AREAS OF HEALTHCARE

The challenging previous year, 2020, did not have, from the perspective of impact of the Covid-19 pandemic, a critical negative impact on the teaching of nonmedical courses at the First Faculty of Medicine, but it did affect the entire course of 2021. Still, thanks to quick reactions of guarantors of the nonmedical study programmes and great support of the 'home' departments where management of the individual programmes are based, we acquitted ourselves in 2021 very well. Even our students, inspired by their colleagues from General Medicine, were helping and provided support for the continued functioning of the General University Hospital as well as other hospitals, where their help was warmly appreciated. I was proud of the fact that our students managed to do well not only in their studies – where there were new challenges in the form of the novel mode of teaching and various changes in the curriculum – but were on top of that able to meaningfully and selflessly help where needed.

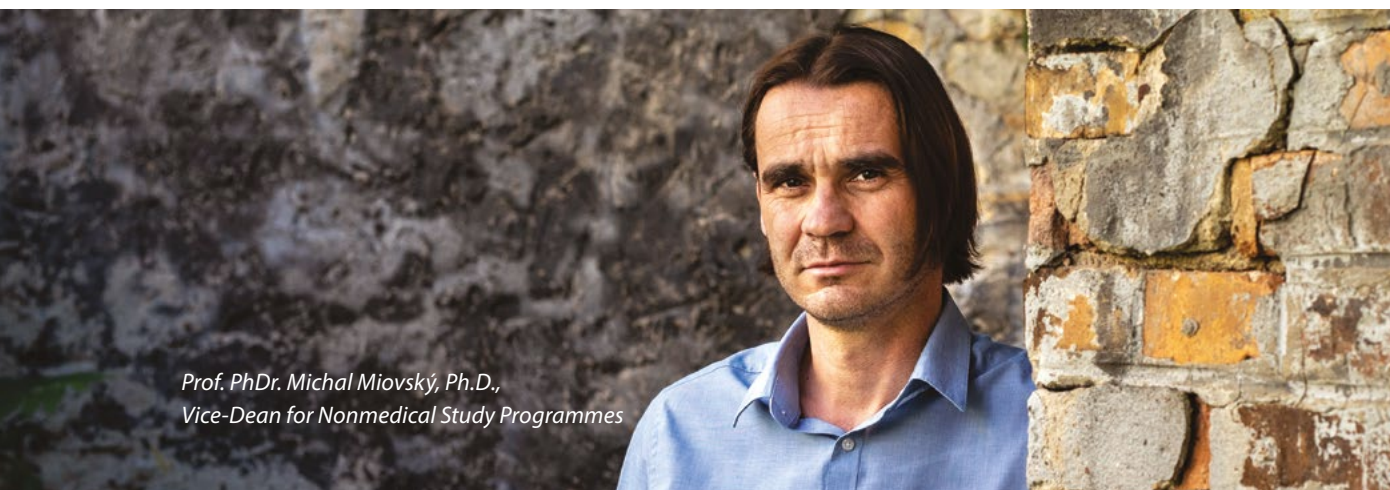
In 2021, we saw one substantial change in the collection of our study programmes. The core of our courses still consists of programmes in Nutritional Therapy, Addictology, Occupational Therapy, Physiotherapy, and Midwifery. But, as I hinted in the previous report, our Faculty started at the request of the General University Hospital and part of the top management of our Faculty to prepare a renewal of the Nursing Care programme. Thanks to an enormous effort of a team led by Assoc. Prof. Lukáš Zlatohlávek, Deputy Director of the General University Hospital Dr Dita Svobodová, and head of the Institute of Nursing Theory and Practice Dr Jana Heczková, it was possible to re-accredit the programme in record time and to announce hiring for positions. It is an extraordinary moment not only because it involves a restoration of this traditional course but also because it builds on our outstanding collaboration with the General University Hospital with the intention to make it even closer and more intensive. Thanks to the support of Dean Prof. Martin Vokurka and Director of the General University Hospital Prof. David Feltl, it was thus possible to create unprecedented conditions for teaching and instruction for already a second study programme (alongside Midwifery).

In 2021, the Faculty had further strengthened the competencies and powers of guarantors of study programmes and continued in the trend of decentralisation of oversight of teaching in particular programmes. Alongside emphasis on boos-

ting the role of students, their associations, and their support from the Faculty, we also launched changes in the realisation of students' research projects. In this area, we are trying to achieve a process of evaluation of their ethical aspects that would be simpler and of a better quality. Our aim is to improve the ethical quality of student research. In all our study programmes, we also witnessed a continuation of a long-term trend of increased interest in these fields. The Faculty was thus once again able to be more selective in choosing students for these programmes. For 2022, we plan a discussion about the possibility of launching a long-planned follow-up master's programme in addictology in the English language, which would be intended for international students.

The team of Assoc. Prof. Yvona Angerová, the head of the Department of Rehabilitation Medicine, managed to successfully stabilise both of their programmes (Occupational Therapy and Physiotherapy), which are traditionally the most sought-after courses at our Faculty. The Midwifery programme, led by Prof. Antonín Pařízek from the Department of Gynaecology and Obstetrics of the First Faculty of Medicine, Charles University, and General University Hospital, is successfully developing its original vision and the course had become an integral part of life of both the hospital department and our Faculty. Its first graduates are already spreading the reputation of both their field and our Faculty, thus continuing, in the best possible way, in the tradition of the pre-WWII course. It is this process that enables the current acceleration of research activities in nonmedical programmes.

We have been further developing cooperation between various units of the First Faculty of Medicine, the Faculty of Arts, and the Faculty of Education of the Charles University within the framework of the Progres Q06 programme and managed to get ready for transformation into the Cooperatio programme. In this context, it should be noted that in 2021, we have successfully defended – based on our results – the original structure and extent of the entire research programme, and thanks to Addictology even achieved its expansion. The Faculty thus had through its academic teams influenced the transformation of the field of clinical psychology as well as public health and addictology. Another successfully continuing initiative is the programme of Specific Scientific Research (SVV) between nonmedical fields at the Department of Rehabilitation Medicine and the Department of Addictology of the First Faculty of Medicine, Charles University, and the General University Hospital.



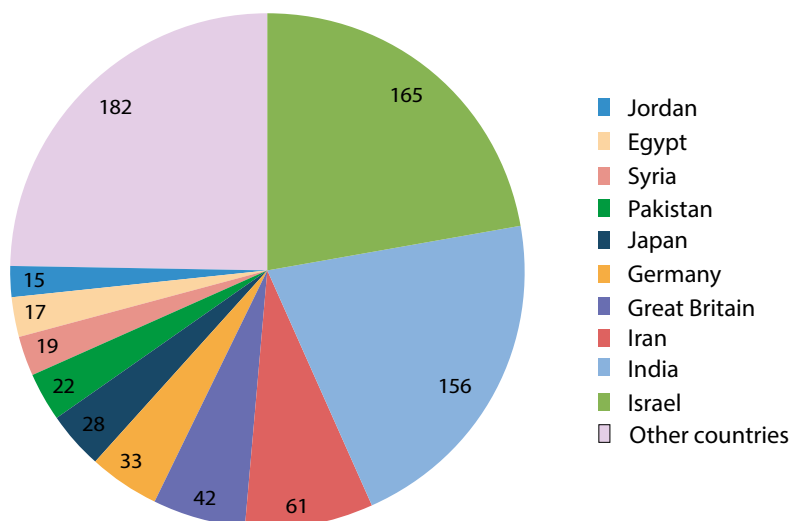
*Prof. PhDr. Michal Miovský, Ph.D.,
Vice-Dean for Nonmedical Study Programmes*



STUDYING IN ENGLISH-LANGUAGE PROGRAMMES

Studying in English is something that has a long tradition at our Faculty. In 2021, we saw a slightly lower number of applications in comparison with the previous year. The number was once again affected by uncertainty linked to the Covid-19 pandemic. In total, we received 1,100 applications (964 for General medicine and 154 for Dentistry). The possibility of taking the entrance examinations online as well as high quality and motivation of applicants in the end led to the enrolment of a sufficient number of students for academic year 2021/2022: all in all, 154 students for General Medicine and 13 students for Dentistry. Unfortunately, international students who need a visa again struggled with problems and delays in acquiring a study visa. Especially problematic was visa acquisition in India. For this reason, we have created in the autumn of 2021 one distance-learning group and some students had to study in this form until the end of the winter term. As in previous years, most accepted students came through our long-term partners abroad with whom we have been developing collaboration in terms of promotion of our programmes and organisation of the admissions process. A significant part of applicants still takes preparatory courses in which they expand their knowledge in subjects tested in entrance examinations, thus improving their chances of successful admission.

Countries with the highest representation of students in English study programmes.



Despite the slight decrease in the number of applications, interest in studying in English is constant and we are maintaining a high standard of the quality of applicants, students, and later graduates. Students' positive experiences are enormously important, because it serves as the best advertisement in trying to reach further potential applicants. Our good name then also spreads within the institutions, hospitals, and other healthcare facilities where our graduates decide to work.

The past year was also important for the development of international relations which enable the students of English programmes spend part of their studies during the clinical years abroad. Most students of these fields head after gradua-



*MUDr. Martin Vejražka, Ph.D.,
Member of the Dean's Board*

tion again abroad and from the point of view of their practical skills, it is of key importance that they learn to navigate the healthcare system of the country where they later wish to work. For this reason, the Faculty had continued to develop its relations especially with Israel, Germany, and Great Britain. Thanks to bilateral agreements with foreign universities and hospitals, we were able to satisfy many of our students. Further development of collaboration with other regions and universities is planned. Our students also have the option of using exchange programmes, among which the best-known are IFMSA and Erasmus+. The option of taking courses in English enables incoming students to take only part of their studies at our Faculty, which likewise helps boost awareness of our Faculty abroad. It also enables many of our Czech and English-speaking students to study for some time abroad at one of the participating international medical faculties within these international exchange programmes.

Last but not least, 2021 was again challenging in terms of distance learning and examinations – for both our current and newly incoming students. Nevertheless, we are glad we were able to release into the world another year of successful graduates.

Due to the anti-epidemic measures, our presentation events for students and potential applicants had to be curtailed. But even so, we hope to soon welcome everyone at various events organised by the faculty and students and hope to be able to fully focus on further development of courses offered in the English language.

ELECTRONIC SUPPORT OF LEARNING

The First Faculty of Medicine has been among the leading institutions which systematically develop various instruments of e-learning and electronic support of learning and contribute to their introduction in the Czech Republic. In 2021, we saw a fast development of electronic instruments of learning support driven by measures necessitated by the coronavirus pandemic. Of the widely used instruments, let me mention the video servers developed at the First Faculty of Medicine, Charles University, such as MedicalMedia, <https://www.medicalmedia.eu>, which enables safe storage of and access to videos, including clinically sensitive materials. For distance examination and proctored examination, including parts of the admission procedure, we have been using the Rogo system (<https://www.rogo.cz>), originally developed at the Nottingham University, whose localisation and implementation was conducted at our Faculty. The Rogo system is currently used also at other faculties in the Czech Republic and in Slovakia.

The basic instruments of electronic learning support include MS Teams and Moodle, which are both linked to our study information system and thus help organise distance teaching. Available is also a simple videoconferencing system (<https://meet.lf1.cuni.cz>) based on the Jitsi, which enables instant initiation of a videoconference without the need to install anything or log in in some complicated way. At the First Faculty of Medicine, we have also created various auxiliary instruments for distance examination, for instance for safe and protocolled drawing of questions during distance examinations (<https://los.lf1.cuni.cz>).

The WikiSkripta (<https://www.wikiskripta.eu>) is a web for learning support which has been extraordinarily popular for the past decade. It is commonly visited by over 50,000 users a day, making it the most visited web aimed at support of undergraduate medical studies in the Czech Republic. WikiSkripta is moreover a web that attracts gifted students and helps them become more actively involved in the teaching process.

EVALUATION OF TEACHING BY STUDENTS

Student evaluation of teaching has been conducted at the First Faculty of Medicine, Charles University, systematically and

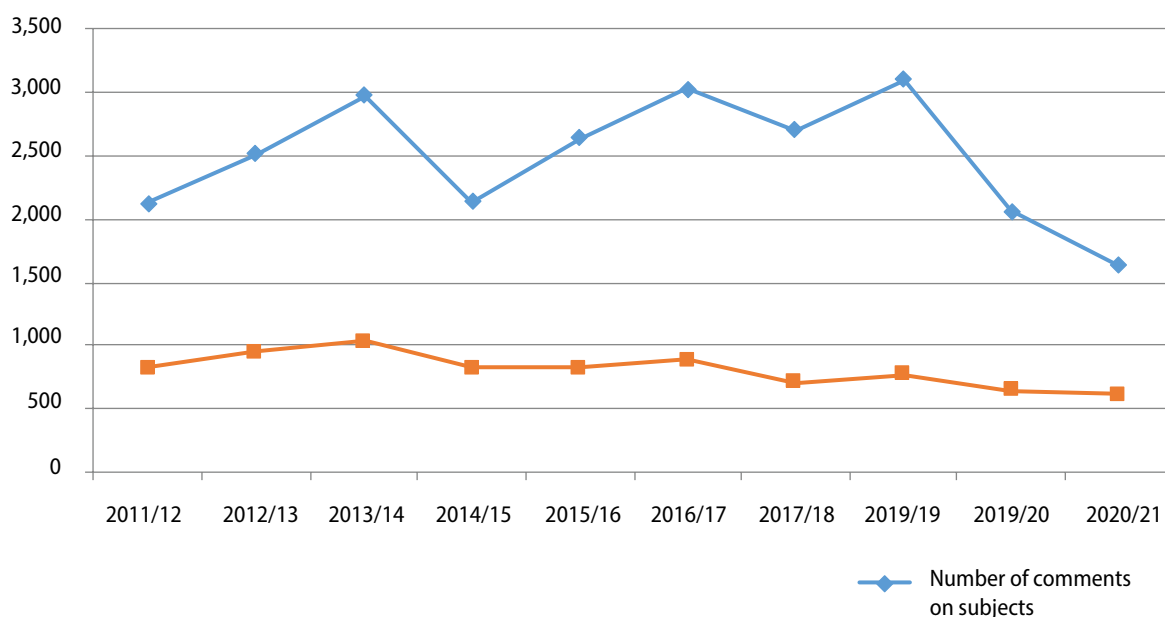
annually for over 15 years. Data are gathered electronically using the study information system. Data collection always takes place throughout the academic year, beginning and ending in late September/early October. Results of the evaluation are processed by the Committee for the Evaluation of Teaching, which then submits them to the Dean's Board and the Academic Senate. Additionally, all units receive evaluation of their teaching activities. Broader academic public can acquaint themselves with the results in the SIS and an abbreviated overview is published at Faculty web and social networks.

Over and above this central survey, some units also use their own questionnaires. Unlike the Faculty-wide survey, which aims at a year-on-year comparison of results, these smaller surveys are flexible and enable a faster reaction to eventual current problems. Students themselves also organise various surveys aimed at evaluation of teaching. The Faculty and its evaluation committee are trying to bring together the results of all these activities so as to get a maximally accurate picture and thus also the best possible material for further improvement of teaching.

EVALUATION OF THE OVERALL RESULTS OF THE SURVEY FOR ACADEMIC YEAR 2020/2021

In total, 617 students took part in the survey, which is about 5% less than in the previous year. We also saw a decline in the number of additional written comments: this year, we had a total of 1,629. Overall assessment of teaching is positive: on a four-point scale, over one-half of the evaluations are in the A range. The number of D-grade equivalents was in all questions far below 10%. The sole exception was found in responses to the question whether the number of patients during training was sufficient. Here, it is clear that the situation was affected by restrictions and limitation of in-person forms of instruction during the Covid-19 pandemic.

The quality of teaching in preclinical years is for the most part viewed as good. More varied are perceptions in the clinical years, where students repeatedly complain about clinical instruction at some departments being excessively theoretic. What remains a weak point in students' evaluation of teaching are the low numbers of students (especially those from the clinical years) participating in the surveys.



Like every year, results of the survey were sent to all units and their heads had the opportunity to comment. Reactions show that units of the Faculty do deal with student's comments and are trying to modify their instruction and improve their standards. Year-on-year comparisons clearly show that both written and verbal assessments by students are becoming more positive.

The Committee for the Evaluation of Teaching is trying to find ways of making the survey more attractive and thus improve its return rate. What seems to be the weak point is the manner in which the responses are collected by the SIS: this method is traditional but not as user-friendly as it should be. In order to make the survey easier on the students, the committee had thus decided to lower the number of questions from over twenty to just four. Within two years, collection of the surveys should moreover move from the SIS to a mobile phone application.

SPECIALITY TRAINING OF PHYSICIANS AND DENTISTS

Prof. MUDr. Jan Škrha, DrSc., MBA, is the person responsible for speciality training at the Faculty. He also represents the First Faculty of Medicine of the Charles University in a coordination council of all eight medical faculties in the Czech Republic, and

together with the expert guarantors of 46 areas of specialisation and staff of the Department of Specialty Education (OSCV) makes sure that specialty training proceeds as planned. Specialty training was also in this year significantly affected by the Covid-19 pandemic, which complicated the situation for organisers who had to flexibly change the form of organisation of courses (online instruction) and ensure sufficient protection for both the examined and the examiners after completing the core education or during the attestation examinations.

Activities of the Department of Specialty Education linked to specialty training pertain mainly to inclusion of physicians and dentists in particular fields of specialisation, recognition of specialised internships in other fields, issuing of certificates after completing the core part of the training, and organisation and coordination of new examinations after completing the core of the programme, attestation examinations, and obligatory pre-attestation or specialisation courses, including accreditation from the Ministry of Health of the Czech Republic to give those examinations, which we managed to acquire for all mandatory courses in all specialties as well as core parts of education. In this context, we are also frequently contacted by representatives of healthcare institutions who ask us to conclude an agreement with them so as to make it possible for them to apply for accreditation.

Registration of physicians and dentists included in specialty education takes place via a web application of the Ministry of Health (EZP). As of 15 December 2021, a total of 2,431 physicians and dentists were registered at our medical school.

Mandatory courses always take place based on interfaculty rotation at all faculties of medicine. This past year, organisation of courses was significantly disrupted by anti-Covid measures, which necessitated a relocation of courses from in-person to a distance form. The distance form of learning enabled the participation of twice as many participants than in 2019, but it cannot be used in all courses, especially not in the interactive ones. Despite the coordination of courses between the medical faculties, what remains problematic from the economic point of view is the organisation of mandatory courses in 'small' specialties.

Examinations after completing the core part of the programme took place at the First Faculty of Medicine for the first time and low interest was probably due to high workload of young physicians in hospitals. The exams were administered in all 16 basic programmes; they were attended by 155 physicians with failure rate ranging at 0–20%. Greatest was interest in the core programmes in internal medicine, anaesthesiology, radiology, and neurology.

Attestation examinations took place this year in 17 specialisations, with most candidates taking exams in paediatric medicine, radiology and imaging methods, and dermatology. Failure rate stood at 0–19.5%.

An overview of mandatory specialisation courses and examinations at the First Faculty of Medicine, Charles University, in 2021

	Specialisation courses	Attestation examinations	Core examinations
No. of events	56	16	31
No. of participants	1,521	97	155

LIFE-LONG EDUCATION OF PHYSICIANS, DENTISTS, AND NONMEDICAL STAFF

In 2021, a total of 42 educational events of life-long education with 1,753 participants in courses and seminars (including clinical workshops for physicians) took place at the departments and institutions of the First Faculty of Medicine of the Charles University. Two events were cancelled due to anti-epidemic measures.

Of the total number, 37 events were organised as optional, based on interest. They were attended by 1,569 participants (18 events with 358 participants took place as part of the 'main programme' and 19 events, with 1,186 participants, had the format of supplementary programme).

Educational events of life-long education for practice of profession included 5 courses, 2 of which were accredited by the Ministry of Health of The Czech Republic. A certified course in Clinical neuropsychology of adults (2018–2020) was completed with 18 graduates, and an accredited qualification course Speech therapist in healthcare (2020–2021) had started with 20 participants.

A courses of specialised training for work aimed at acquiring qualification and expert competence in the area of experimentation involving animals, with accreditation by the Ministry of Agriculture of the Czech Republic, had 94 graduates in its Czech mutation and 40 graduates in its English mutation. Another two courses aimed at extending validity of this certificate also took place: a course for university employees had 39 participants and a course for secondary school employees had 16 participants.

In the mode of supplementary activity, i.e., in collaboration with commercial subjects, the Faculty had also organised 24 educational events for physicians of various specialisations. These events were attended by a total of 1,586 participants.

An overview of courses and workshops organised as part of life-long education by the Department of Specialty Education of the First Faculty of Medicine, Charles University in 2021

	Education events for medical professionals	Education events in collaboration with commercial subjects	Total
No. of events total	23	24	52
For practice/by interest	5/18		
No. of participants total		19	42
For practice/by interest		1,186	1,753

The Department of Specialty Education provides up-to-date information about specialised and life-long education for physicians and dentists on the website of the First Faculty of Medicine (<http://www.lf1.cuni.cz/dalsi-vzdelavani>) and by email, phone, or personal consultations.

DOCTORAL STUDIES

The First Faculty of Medicine of the Charles University offers 22 doctoral programmes in Czech and English language, whereby 15 of these programmes are realised as doctoral programmes in biomedicine. These programmes were formed in 1992 based on an agreement between three medical faculties in Prague (the First, Second, and Third Faculty of Medicine of the Charles University), Faculty of Science of the Charles University, and the Academy of Sciences of the Czech Republic.

Doctoral programmes in biomedicine are implemented in accordance with the Higher Education Act, regulated by internal directives of the Charles University and its faculties, and they all observe the letter of the framework agreement on collaboration in realisation of study programmes of 23 April 1997 and the agreement on joint activities between the Charles University and Academy of Sciences of the Czech Republic of 26 June 1997. A new agreement on collaboration within doctoral study programmes was signed on 28 May 2018 between the Charles University and the Academy of Sciences of the Czech Republic. Based on this agreement, further agreements on mutual collaboration on newly accredited doctoral study programmes are being concluded.

DOCTORAL PROGRAMMES REALISED AT THE FIRST FACULTY OF MEDICINE OF THE CHARLES UNIVERSITY AND HEADS OF THE RELEVANT AREA BOARDS IN 2021

Addictology: Specialisation in healthcare¹

Prof. PhDr. Michal Miovský, Ph.D.,
First Faculty of Medicine, Charles University
Assoc. Prof. MUDr. PhDr. Jan Payne, Ph.D.,
First Faculty of Medicine, Charles University
Prof. MUDr. Libor Vítek, Ph.D., MBA,
First Faculty of Medicine, Charles University
Assoc. Prof. MUDr. Tomáš Kučera, Ph.D.,
First Faculty of Medicine, Charles University
Prof. MUDr. Štěpán Svačina, DrSc.,
First Faculty of Medicine, Charles University
Assoc. Prof. PaedDr. Karel Jelen, CSc.,
Faculty of Physical Education and Sport, Charles University
Assoc. Prof. Mgr. Karel Černý, Ph.D.,
First Faculty of Medicine, Charles University
Prof. MUDr. Zdeněk Krška, DrSc.,
First Faculty of Medicine, Charles University
Prof. MUDr. Ondřej Slanař, Ph.D.,
First Faculty of Medicine, Charles University
Prof. MUDr. Otomar Kittnar, CSc., MBA,
First Faculty of Medicine, Charles University
Prof. MUDr. Eva Topinková, CSc.,
First Faculty of Medicine, Charles University
Assoc. Prof. RNDr. Magdaléna Krulová, Ph.D.,
Faculty of Science, Charles University
Prof. MUDr. RNDr. Jiří Beneš, CSc.,
First Faculty of Medicine, Charles University
Prof. MUDr. Jiří Raboch, DrSc.,
First Faculty of Medicine, Charles University

Bioethics

Biochemistry and Pathochemistry

Cell Biology and Pathology

Biomedical Informatics

Biomechanics

History of Medicine

Experimental Surgery

Pharmacology and Toxicology

Human Physiology and Pathophysiology

Gerontology

Immunology

Medical Biophysics

Medical Psychology and Pathopsychology²

Microbiology	Assoc. Prof. RNDr. Ivo Konopásek, CSc., Faculty of Science, Charles University
Molecular and Cellular Biology, Genetics, and Virology Neurosciences	Assoc. Prof. RNDr. Dana Holá, Ph.D., Faculty of Science, Charles University Prof. MUDr. Jan Laczů, Ph.D., Second Faculty of Medicine, Charles University
Nutrition and Metabolic Sciences	Assoc. Prof. MUDr. Lukáš Zlatohlávek, Ph.D., First Faculty of Medicine, Charles University
Parasitology	Assoc. Prof. RNDr. Jan Votýpka, Ph.D., Faculty of Science, Charles University
Preventive Medicine and Epidemiology³	Assoc. Prof. MUDr. Jan Polák, Ph.D., Third Faculty of Medicine of the Charles University
Developmental and Cellular Biology	Prof. RNDr. Jan Černý, Ph.D., Faculty of Science, Charles University
Imagine Methods in Medicine	Assoc. Prof. MUDr. Andrea Burgetová, Ph.D., MBA, First Faculty of Medicine, Charles University

¹ Name of the previous accreditation: Study Programme Specialisation in Healthcare, Field of Study Addictology

² Name of the previous accreditation: Study Programme Psychology, Field of Study Medical Psychology and Psychopathology

³ Name of the previous accreditation: Study Programme Preventive Medicine

The content and organisation of studies in particular courses are managed by joint area boards, which guarantee the quality of particular doctoral programmes. Guarantors of study programmes and members of the area boards are appointed by the rector based on proposals of deans of the relevant faculties and participating non-university training institutions. The guarantor functions as head of the area board of the relevant programme. Doctoral programmes in biomedicine are managed by the Coordination Board. Members of the Coordination Board of Doctoral Programmes in Biomedicine are appointed and recalled jointly by Rector of the Charles University and President of the Academy of Sciences of the Czech Republic based on proposals of deans of the individual faculties of the Charles University and heads of participating academic units. The Coordination Board also includes heads of area boards. The head and deputy head of Coordination Board of Doctoral Programmes in Biomedicine are elected from their midst by the board's members.

The head convokes and directs meetings of the area board and represents the board in negotiations with organs of the relevant Faculty and at sessions of the Coordination Board of Doctoral Programmes in Biomedicine. Competencies of area boards are regulated by the current letter of Act on Higher Education.

The following table offers an overview of accredited doctoral programmes in Czech and English, including the duration of their accreditation. For 2021, it lists an overview of doctoral examinations passed and dissertation theses defended. This is followed by cumulative data on the number of admitted students and defended dissertation theses in doctoral programmes at the First Faculty of Medicine over the past five years (2017–2021) and by specification of conditions for admission into doctoral programmes.

Accredited doctoral programmes in Czech and validity of their accreditation

Doctoral programme	Accredited Until	
Addictology: Specialisation in Healthcare,	1 September 2030	
Bioethics ⁵	23 September 2025	
Biochemistry and Pathochemistry	28 November 2028	
Cell Biology and Pathology ⁶	27 November 2029	
Biomedical Informatics ⁶	22 April 2025	
History of medicine ⁵	31 December 2024	(only for current students to graduate)
Experimental Surgery ⁶	1 September 2030	
Pharmacology and Toxicology ⁶	27 November 2029	
Human Physiology and Pathophysiology ⁶	11 December 2029	
Gerontology	27 November 2029	
Imunology ⁶	31 December 2024	(only for current students to graduate)
Medical Biophysics ⁶	27 November 2029	
Medical Psychology and Psychopathology	27 November 2029	

Doctoral programme	Accredited Until	
Microbiology ⁶	23 October 2024	
Molecular and Cellular Biology, Genetics, and Virology ⁶	23 October 2029	
Neurosciences ⁶	23 September 2030	
Nutritional and Metabolic Sciences	25 November 2030	
Parasitology ⁶	27 November 2029	
Preventive Medicine and Epidemiology ^{8,6}	27 November 2029	
Developmental and Cellular Biology ⁶	27 November 2029	
Imaging Methods in Medicine ⁵	1 September 2030	

⁴ Name of the previous accreditation: Study Programme Specialisation in Healthcare, Field of Study Addictology

⁵ Older accreditation valid until 31 December 2024

⁶ Older accreditation valid until 31 December 2024 (only for current students to complete the programme)

⁷ Name of the previous accreditation: Study Programme Psychology, Field of Study Medical Psychology and Psychopathology

⁸ Name of the previous accreditation: Study Programme Preventive Medicine

Accredited doctoral programmes in English and validity of their accreditation

Doctoral Programme	Accredited Until	
Addiction: Specialisation in Health Care ^{9,10}	1 September 2030	
Bioethics ¹⁰	23 September 2025	
Biochemistry and Pathobiochemistry	28 November 2028	
Biomedical Informatics ¹¹	22 April 2025	
Biomechanics	31 December 2024	(only for current students to graduate)
Cell Biology and Pathology ¹¹	27 November 2029	
Developmental and Cell Biology ¹¹	27 November 2029	
Experimental Surgery ¹¹	27 November 2029	
Gerontology	31 December 2024	(only for current students to graduate)
History of Medicine ¹⁰	1 September 2030	
Human Physiology and Pathophysiology ¹¹	27 November 2029	
Imaging Methods in Medicine ¹⁰	1 September 2030	
Immunology ¹¹	27 November 2029	
Medical Biophysics ¹¹	27 November 2029	
Medical Psychology and Psychopathology ^{12,11}	23 October 2024	
Microbiology ¹¹	23 October 2029	
Molecular and Cellular Biology, Genetics and Virology ¹¹	23 October 2029	
Neurosciences ¹¹	23 September 2030	
Nutritional and Metabolic Sciences	25 November 2030	
Parasitology ¹¹	27 November 2029	
Pharmacology and Toxicology ¹¹	11 December 2029	
Preventive Medicine and Epidemiology ^{13,11}	27 November 2029	

⁹ Name of the previous accreditation: Study Programme Specialisation in Health Service, Field of Study Addictology

¹⁰ Older accreditation valid until 31 December 2024

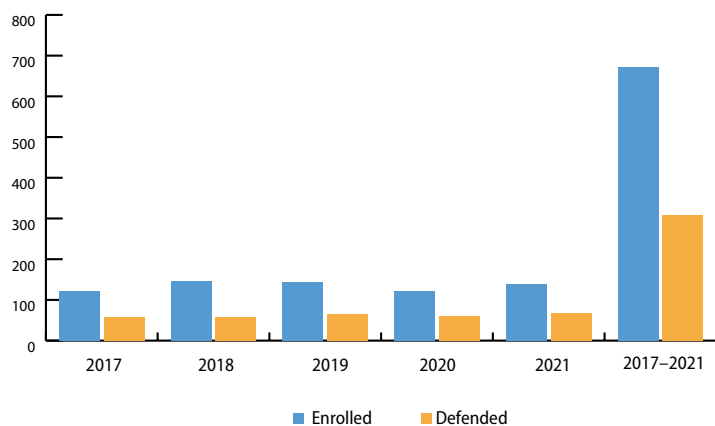
¹¹ Older accreditation valid until 31 December 2024 (only for current students to complete studies)

¹² Name of the previous accreditation: Study Programme Psychology, Field of Study Medical Psychology and Psychopathology

¹³ Name of the previous accreditation: Study Programme Preventive Medicine

Numbers of admitted students and defended dissertation theses in doctoral programmes at the First Faculty of Medicine in the past five years (2017–2021)

Year	2017	2018	2019	2020	2021	2017–2021
Enrolled	122	145	143	122	140	672
Defended dissertation theses	57	58	65	61	67	308



MD/Ph.D. PROGRAMME REALISED IN COLLABORATION BETWEEN THE FIRST FACULTY OF MEDICINE, CHARLES UNIVERSITY, AND THE GENERAL UNIVERSITY HOSPITAL

General University Hospital in Prague offers students of doctoral programmes at the First Faculty of Medicine, Charles University, who study full-time and are included in pre-attestation programme the possibility of studying in a so-called MD/Ph.D. programme. The aim of this programme is to facilitate high-quality research at clinical departments of hospitals in areas of healthcare which are considered a priority. The MD/Ph.D. programme accepts students according to criteria which are published at the website of the General University Hospital and the First Faculty of Medicine, Charles University. Within the programme, students are evaluated based on meeting the targets of their individual study plan.

In 2021, the General University Hospital announced two competitions:

1. For students who had already been included in the MD/Ph.D. programme and applied for extension of their employment contract: extension of employment contract at units of the First Faculty of Medicine, Charles University, and General University Hospital was enabled to five students (at the Department of Paediatrics and Hereditary Metabolic Disorders, the 3rd Department of Internal Medicine, and the Department of Dermatovenereology; all of the First Faculty of Medicine, Charles University, and the General University Hospital).
2. For students who applied for the option of joining the MD/Ph.D. programme: two students met the criteria and received employment contracts at a joint department of the General University Hospital and the First Faculty of Medicine, Charles University (Department of Neurology).

ADMISSION CRITERIA FOR STUDY IN DOCTORAL PROGRAMMES - CONDITIONS IN 2021

Not only graduates of the First Faculty of Medicine of the Charles University but also graduates of other faculties who meet conditions announced by the relevant area boards can apply for study in doctoral programmes. Their admission is based on a successful admission interview, which takes the form of an oral conversation aimed at testing mainly professional qualities, command of language, and applicant's readiness to conduct independent scientific work in the area for which they apply. The interview includes a discussion of applicant's proposal of doctoral thesis (presentation of the proposed project together with the envisaged supervisor). Application to this programme also includes documents specified in the conditions of the admission procedure (see website of both our Faculty and the Charles University).

The fee for admission procedure in academic year 2021/2022 was for applicants for study in doctoral programmes set at CZK 720.

The fee for study in English is determined in accordance with §58 article 5 Act no. 111/1998 Coll. On Higher Education and Article 4, par. 1 of Supplement 2 of Statutes of the Charles University and set at CZK 0.

SCHOLARSHIPS

Award of scholarships follows the Scholarship and Bursary Rules of the Charles University adopted on 21 May 2018, effective as of 1 June 2018. An amendment of the Scholarship and Bursary Rules of the Charles University is valid since 27 October 2020, effective as of 1 November 2020.

Students in full-time study have the right to receive 48 payments of scholarship plus 6 for the time when their studies were disrupted. The amount was, for the period of 1 October 2020 to 30 September 2021, determined by Dean's measure no. 6/2020 as follows:

Year 1	CZK 10,500
Year 2	CZK 11,000
Year 3	CZK 11,500
Year 4	CZK 12,000

Dean's measure no. 9/2021, effective as of 1 October 2021, sets the amount of money to be paid out as scholarship for academic year 2021/2022 as follows:

Year 1	CZK 10,500
Year 2	CZK 11,000
Year 3	CZK 11,500
Year 4	CZK 12,000



*Assoc. Prof. MUDr. Lukáš Zlatohlávek, Ph.D.,
Vice-Dean for Doctoral Studies*



Prof. MUDr. Pavel Klener, Ph.D.,
Vice-Dean for Scientific Work

Sessions of the Scientific Boards of the First Faculty of Medicine oversaw 10 procedures leading to professorial appointments and 19 habilitation procedures. The Faculty has accreditation for performing habilitations and professorial appointments in 37 areas.

The Faculty has 22 accredited doctoral programmes. In 2021, 67 students had successfully completed their doctoral studies.

On 5 October 2021, Prof. Dr. med. Hans-Georg Kräusslich was, following a proposal of the First Faculty of Medicine, awarded in the Great Hall of the historical building of Carolinum an honorary scientific degree doctor honoris causa in medical sciences for his contribution to our knowledge of the lifecycle of HIV, which aided the discovery of effective anti-viral drugs. Prof. Thomas F. Babor, Ph.D., M.P.H., received an honorary doctorate in medical sciences for his extraordinary contribution to the area of public health with focus on the use of addictive substances, especially alcohol, and his international contribution to addressing the issue of addictions, as well as his long-term collaboration with Czech scientists, students, and scientific institutions.

In 2021, the Dean's Board had adopted the proposal of the First Faculty of Medicine, Charles University, and appointed MUDr. habil. Ivan Matia, Ph.D., of the Abteilung für Herz-und Gefäßchirurgie, Krankenhaus Nord – Klinik Floridsdorf, a visiting professor for the 2nd Department of Surgery, Cardiovascular Surgery of the First Faculty of Medicine, Charles University, and General University Hospital.

AWARDING EXCELLENT ORIGINAL RESEARCH AT THE FIRST OF MEDICINE, CHARLES UNIVERSITY

The Faculty had once again shown appreciation to its researchers using the Dean's Board Award for outstanding publications credited to the First Faculty of Medicine, Charles University. In 2021, the award was given to publications accepted for publication in 2020 (<https://www.lf1.cuni.cz/cena-kd-za-excelentni-publikaci-2020>). This award fully follows the recommendation of experts in their evaluation report, which highlighted the desirability of awarding the best original publications. Five best scientific publications dedicated to the First Faculty of Medicine, Charles University, from the position of the first or corresponding author, which appeared in a journal with impact factor belonging to the first quartile (optimally in the first decile), are selected by the Dean's Board from a list of publications nominated by heads of Faculty units based on a secret ballot. In short, these are publications which the Faculty presents as key results of creative activities within the national, university-wide, and internal assessment of scientific activities (module M1).

An overview of international grants

Project title	Type of instrument
Conservative iron chelation as a disease-modifying strategy in Parkinson's disease: a multicentric, parallel-group, placebo-controlled, randomized clinical trial of deferiprone (FAIR-PARK-II)	HORIZON 2020
Translational studies of HEAD and neck cancer in South America and Europe (HEADSpAcE)	HORIZON 2020
conect4children Collaborative Network for European Clinical Trials For Children (C4C)	IMI Joint Undertaking II
Genetically determined diseases – education and diagnosis" (EDUGEN)	Transnational Cooperation
Development of a model for nurses' role in interprofessional pharmaceutical care	Erasmus+
Biomarkers to prevent disability in multiple sclerosis (Crystal Ball Project 2.0)	The National Health and

Project title	Type of instrument
Medical Research Council	Erasmus+
Search for new therapeutic targets to modulate the immune system	EMBO Installation grant
Implementing Methamphetamine Prevention Strategies into Action (IMPRESA)	Justice for Europe
Further ENhancing the Implementation of Quality	BTHA
Standards in drug demand reduction across Europe — FENIQS-EU	Justice for Europe

Numbers of grant projects conducted at the First Faculty of Medicine, Charles University, in 2017–2021

Name of the grant agency	2017		2018		2019		2020		2021	
	First Faculty of Medicine, Charles University	General University Hospital	First Faculty of Medicine, Charles University	General University Hospital	First Faculty of Medicine, Charles University	General University Hospital	First Faculty of Medicine, Charles University	General University Hospital	First Faculty of Medicine, Charles University	General University Hospital
Czech Science Foundation (GA ČR)	28	5	32	7	32	3	31	3	25	1
Grant Agency of the Charles University (GA UK), Specific University Research (SVV)	80	0	70	0	71	0	58	0	55	0
Czech Health Research Council (AZV ČR)	59	62	67	72	62	66	47	60	45	66
UNCE, Progres, Primus	19	0	12	0	21	0	24	0	24	0
Technology Agency of the Czech Republic (TAČR)	5	2	3	4	5	5	11	7	8	7
Ministry of Education, of Environment, of Internal Affairs, of Agriculture of Industry and Trade of the Czech Republic	20	1	15	1	13	2	25	8	28	15
International grants	13	6	11	10	10	11	10	7	11	8
Subtotal	224	76	210	94	214	87	206	85	196	97
Total of the First Faculty of Medicine, Charles University, and General University Hospital	300		304		301		291		293	

An overview of the number of grant projects by agencies, success rates for 2017–2021

Year of project launch	Czech Science Foundation (GA ČR)			Grant Agency of the Charles University (GA UK)			Czech Health Research Council (AZV ČR)		
	Applications	Grants	%	Applications	Grants	%	Applications	Grants	%
2017	22	8	36 %	81	28	35 %	28	6	21 %
2018	33	5	15 %	53	16	30 %	32	6	19 %
2019	26	7	27 %	52	18	35 %	31	10	32 %
2020	28	8	29 %	51	17	33 %	32	8	25 %
2021	41	2	5 %	46	15	33 %	23	8	35 %

Subsidies for science and research, 2017–2021

Year	First Faculty of Medicine, Charles University	General University Hospital	Total
2017	CZK 354,817,338	CZK 209,638,651	CZK 564,455,989
2018	CZK 360,581,379	CZK 216,289,028	CZK 576,870,407
2019	CZK 379,404,901	CZK 198,375,265	CZK 577,780,166
2020	CZK 418,411,469	CZK 189,819,468	CZK 608,230,937
2021	CZK 420,982,513	CZK 199,525,535	CZK 620,508,048

Basic parameters of scientific work at the First Faculty of Medicine, Charles University, 2017–2021

	Financial and personnel support						Publications (selection)					Citations	
	Allocated grant resources (in thous. CZK)	No. of projects incl. projects submitted in the General University Hospital and Research Concepts	Total nos. of employees of the First Faculty of Medicine, Charles University (and converted to FTE)	No. of students in doctoral programmes	Total no. of publications	Total no. of authors	Books and text-books in Czech or English	Original academic publications and reviews in journals without IF	Original academic publications and reviews in journals with IF	No. of authors publishing in journals with IF	Total sum of IF of journals where they published	No. of citations according to SCI	No. of authors cited in the SCI
2017	354,817	300 0	1,187.08 (277.241) ¹	1,093	1,924	1,622	60	576	657	798	3,089.6	43,068	1,279
2018	360,581	304 0	1,202.13 (302.709) ¹	1,082	1,948	1,694	58	639	704	832	3,256.3	50,212	1,355
2019	379,405	366 0	1,216.16 (369.85) ¹	893	1,997	1,742	50	631	767	884	4,118.9	59,982	1,405
2020	418,411	291 0	1,218.16 (274.526) ¹	840	1,986	1,648	51	569	863	952	5,416.5	74,019	1,482
2021		---	---										

¹From grants

BIBLIOGRAFIE 2020

The Annual Report of the First Faculty of Medicine of the Charles University traditionally includes an overview of publication activities of the Faculty and a statistical analysis according to the particular types of documents.

Based on a decision of Dean's Board of 28 June 2021, the Faculty had adopted a new algorithm for calculating the scientific output of the Faculty. This method reflects the importance of original scientific publications in excellent journals (taking into account the Faculty's evaluation according to Metodika M17+). Texts published in impacted journals are assigned the number of points calculated for that IF journal according to its classification into the relevant quartile Q1–Q4 (if a journal is included in more than one quartile, the best one is selected). It is also taken into account whether a journal ranks in the first decile (D1), i.e., among the most prestigious journals. In contrast to previous years, this system cancelled BIB points formed at a time before objective bibliometric parameters had been defined, i.e., points created by a method that assigned a fixed number of points to particular types of publications (e.g., all publications in IF journals received the same number of points regardless of the quality of the journal). The new algorithm works with a system of quarters, where $\frac{1}{4}$ of points is awarded to the first author, $\frac{1}{4}$ to the corresponding author, $\frac{1}{4}$ to the senior/last author, and $\frac{1}{4}$ is divided proportionally among other co-authors. The formula for calculating scientific output thus changed from $3 \times \text{IF} + 2 \times \text{SCI} + \text{BIB}$ to $4 \times \text{IF} + 2 \times \text{SCI}$.

An overview of point values of individual categories with a statistical overview for 2020 is located on page XX.

In 2020, authors from the First Faculty of Medicine of the Charles University published a total of 1,986 texts in relevant categories. The number of publishing authors from the Faculty stood at 1,648. In 2020, there were published in impacted journals 721 original and 142 overview contributions in which there participated 952 authors from the First Faculty of Medicine. The number of citations of authors from the First Faculty of Medicine is, according to the Web of Science database, 74,019. This amounts to a year-on-year increase by 14,037 citations.

The Annual Report of the First Faculty of Medicine of the Charles University since 2007 also includes the value of the Hirsch index (h-index), both for individual authors and for the First Faculty of Medicine as a whole. As of 31 December 2021, institutional h-index of the First Faculty of Medicine of the Charles University was $h = 167$. The Faculty thus shows a long-term increasing trend also regarding this indicator.

The Annual Report includes an in extenso overview of work dedicated to the First Faculty of Medicine (i.e., first, senior, or corresponding author from the First Faculty of Medicine) and work published in journals with IF in the first decile (D1).

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¹Authors from the First Faculty of Medicine of the Charles University are, within co-authorship, in the first or senior position or function as corresponding authors (this is in bold, corresponding author is also underscored). Contributions are listed alphabetically based on the first author. JIF quartile Q1 (D1) is from the year of publication of the text evaluated; if a journal is included in several areas of science, the one where its ranking is the best is selected.

Publications in journals with the highest IF in which authors from the First Faculty of Medicine of the Charles University published in 2020.

IF 2020	Total no. of publications in which authors from the First Faculty of Medicine of the Charles University participated	The no. of publications where author from the First Faculty of Medicine of the Charles University was the first, corresponding, or senior author
20.000–91.245	37	3
15.000–19.999	22	6
10.000–14.999	47	14
8.000–9.999	36	14
7.000–7.999	30	7
6.000–6.999	64	30
5.000–5.999	80	40
Total	316	114

Total publication output of the First Faculty of Medicine, Charles University – overview for 2015–2020

Type of document	2015	2016	2017	2018	2019	2020
Original article in an academic journal with IF	529	570	581	619	665	721
Original article in an academic journal without IF – indexed	104	126	128	148	112	121
Original article in an academic journal without IF – not indexed	106	76	85	103	100	70
Synoptic article in an academic journal with IF	71	72	76	85	102	142
Synoptic article in an academic journal without IF – indexed	171	156	157	133	118	158
Synoptic article in an academic journal without IF – not indexed	241	257	206	255	301	220
Translation of an article in an academic journal – from other language into Czech	28	5	0	4	15	1
Translation of an article in an academic journal – from Czech into another language	0	0	0	0	0	0
Review	30	19	17	13	9	8
Case study in an academic journal with IF	6	11	14	18	19	19
Case study in an academic journal without IF – indexed	31	43	38	42	23	55
Case study in an academic journal without IF – not indexed	32	41	53	41	59	38
Popularising articlea)	36	28	29	6	8	9
Other articleb)	151	162	170	160	151	136
Abstract of a conference presentation in an academic journal with IF	NC	NC	NC	NC	NC	NC
Another abstract, paper, poster	NC	NC	NC	NC	NC	NC
Letter to the editors in an academic journal with IF	17	25	21	15	35	36
Letter to the editors in an academic journal without IF	3	2	4	1	1	2
Editorial in an academic journal with IF	11	11	4	5	4	18
Editorial in an academic journal without IF	37	27	30	24	19	19
Contribution to conference proceedings – Czech/Slovak	79	89	37	86	45	62

Type of document	2015	2016	2017	2018	2019	2020	
Contribution to conference proceedings – not Czech/Slovak	27	10	10	11	24	11	
Monograph – Czech/Slovak ^{1,2}	40	40	48	47	33	32	
Monograph – not Czech/Slovak ^{1,2}	5	1	2	4	2	2	
Textbook, anthology – Czech/Slovak ¹	21	7	8	7	14	17	
Textbook, anthology – not Czech/Slovak ¹	2	2	2	0	1	0	
Chapter in a book, textbook, anthology (not conference proceedings) – Czech/Slovak ^{1,2}	90	88	47	34	65	37	
Chapter in a book, textbook, anthology (not conference proceedings) – not Czech/Slovak ^{1,2}	27	26	20	13	20	12	
Encyclopaedia, dictionary, reference book, yearbook, review manual, popular science book) / chapters in such books – Czech/Slovak ¹	33	22	11	14	11	17	
Encyclopaedia, dictionary, reference book, yearbook, review manual, popular science book) / chapters in such books – not Czech/Slovak ¹	0	1	0	1	1	3	
Translation of a book/book chapter – from another language into Czech ¹	2	1	1	0	0	0	
Translation of a book/book chapter – from Czech into another language ¹	0	0	0	0	0	0	
Patents and inventions	1	3	6	4	7	4	
Technologies, treatment procedures	0	0	3	0	0	0	
Habilitation, dissertation, rigorosum theses	8	4	2	3	4	2	
Audio-visual design, creating, software, internet resources, e-learning, conference, workshop, exhibition	42	60	34	41	27	9	
Varia, other outputs	6	2	80	11	2	5	
Publication outputs total	1,987	1,987	1,924	1,948	1,997	1,986	I
No. of authors from the First Faculty of Medicine	1,720	1,540	1,622	1,694	1,742	1,648	II
Sum of IF publications category original/synoptic article with IF	2,287.45	2,583.916	3,089.94	3,256.286	4,118.865	5,416.535	III
No. of authors from the First Faculty of Medicine who published in journals with IF	777	817	798	832	884	952	IV
No. of citations in SCI	33,856	37,351	43,068	50,212	59,982	74,019	V
No. of authors from the First Faculty of Medicine cited in the SCI	1,221	1,185	1,279	1,355	1,405	1,482	VI

Indexed/not indexed = article in a non-impacted journal that is/is not listed in the SCOPUS, Medline, or ERIH databases.

NC – data not collected

Articles of the multicentric type – co-authorship is assessed only in case the author from the First Faculty of Medicine is one of the main authors (and not, e.g., in case the author from the First Faculty is thanked in the acknowledgements for assistance with supplying part of the statistical data or the like).

After discussions at the 1st meeting of the Dean's Board (5 September 2016) and adoption of the proposal by the Scientific Board (20 September 2016), IF points for impacted publication are calculated from a constant corresponding to the median calculated for the IF journal according to its classification into the relevant quartile (Q) and first decile (D1) (session of the Dean's Board 28 June 2021). For calculation based on data from 2020, the constants are as follows: D1 = 10.545; Q1(outside D1) = 5.113; Q2 = 3.824; Q3 = 2.630; Q4 = 1.577.

¹ Point value of books and chapters is calculated for each initiated 5 printed pages of the evaluated publication.

² Organisation or main authorship of a monograph amounts to 20% of points of the entire publication; other authors receive 80% of points awarded to the publication.

a) Previously referred to as: Original article in a newspaper, popularisation/popular science journal.

b) This merges previously separate subcategories: other kinds of articles in an academic journal; biographic article (round anniversary, obituary) in an academic journal; reports from congresses and scientific societies in an academic journal.

c) Previously referred to as a popularising book/book of public instruction.

I – Number of entries in a bibliographic database.

II – Number of authors whose sum of points is IF + SCI + BIB > 0,0000 (since 2020 IF + SCI > 0,0000).

III – Number of IF publications belonging to categories original article in an academic journal with IF and synoptic article in an academic article with IF (that is, not case studies in a journal with IF, letter to the editors in an academic journal with IF).

IV – The number of authors who have a sum of points IF > 0,0000.

V – Sum of SCI points of authors from the First Faculty of Medicine, Charles University (i.e., not the number of citations of texts where at least one co-author is from the First Faculty of Medicine, Charles University).

VI – The number of authors with SCI > 0.

COMMERCIALISATION AND PROTECTION OF INTELLECTUAL PROPERTY

In the past year, our leading science researchers made and published many new scientific findings. Their findings have been brought under the protection of intellectual property law and some were also successfully commercialised. In addition to economic benefits, the main purpose of commercialisation is to introduce new knowledge into routine clinical practice and other areas of healthcare, and one of the ways to achieve this is cooperation with the private sector, which enables a transfer of knowledge from the academic sphere into practice. Another positive result of the successful transfer of technology into practice is the raising of society's awareness of research activities beneficial to society, which have been realised by research teams of the First Faculty of Medicine, Charles University. In the past year, this cooperation was successfully established in several different ways, such as through licensing agreements and by entering the University into spin-off companies, for example in the form of collaborative or contractual research. In each of these cases, cooperation between our Faculty and the private sector has been ongoing and led to long-term cooperation on further development of joint discoveries and their transfer into practice.

The technology transfer system, as well as the transfer of knowledge from academia into practice, has been ongoing for many years but over the past few years, the university's activities have generally become more closely focused on this area, new rules have been created, and the commercialisation system started to become an integral part of the activities at the university, as well as at the Faculty.

The success of technology transfer has been largely due to the activities of the Charles University Innovations Prague (CUIP), a spin-off company of the Charles University created mainly to enable technology transfer, with which the Faculty has been cooperating since its inception. This company provides advice on intellectual property management and ensures commercialisation of research results in practice, including preparation of contracts and active search for commercial cooperation with the private sector.

Specific cases of successful technology transfer are listed below. They include technology transfers made in the past year, as well as transfers from the previous year, further developed in the past year, which continue to be a source of financial revenue for the university, our Faculty, scientific laboratories of the Faculty, and for the scientists themselves.

Bazedoxifene

Within the framework of joint research of the First Faculty of Medicine, Charles University, and Faculty of Science, Charles University, the use of Bazedoxifene was studied as one of the most promising candidates for the inhibition of interleukin 6 (IL-6), which triggers the necessary immune response for treatment of infection. Often, though, this reaction is disproportionately large, which is also why it is involved in the launch of a 'cytokine storm' in patients with Covid-19. Bazedoxifene and raloxifene, which belong to the same class, have been developed as oestrogen analogues for the treatment of postmenopausal osteoporosis. But these drugs also interact with the GP130, parts of the IL-6 receptor, and prevent the IL-6 from binding to its receptor. Oxygen Biotech LCC has bought the rights to the invention – selling intellectual property – in the field of preparation of a soluble form of the bazedoxifene and its subsequent use in patients suffering from Covid-19, and received a US patent for the invention. The authors for the First Faculty of Medicine, Charles University, are Prof. M.D. Karel Smetana Jr., D.Sc., Ing. Milan Jakubek, Ph.D., Prof. M.D. Martina Vašáková, Ph.D., Prof. M.D. Pavel Martásek, DrSc., with Prof. Jan Brábek, PhD, representing the Faculty of Science.

GeneSpector, Ltd.

In connection with the Covid-19 pandemic, researchers of the Department of Paediatrics and Inherited Metabolic Disorders of the First Faculty of Medicine, Charles University, and General University Hospital, had within the infrastructure of the National Centre for Medical Genomics (NCMG), under the leadership of Professor Stanislav Kmoč, developed a sampling and transport reagent for RNA isolation with trade name viRNAzol, later renamed viRNAtrap. This is a new generation sampling solution which, among other things, sterilises stored samples and is therefore safer for health professionals and laboratory personnel. Subsequently, there was founded a GeneSpector, Ltd., a university spin-off company which – unlike other companies operating in this area – focuses on the entire diagnostic workflow. This company's solutions can thus be implemented in all types of laboratories, from the smallest to the largest, both for Covid-19 as well as for other viral diseases. Charles University owns a 25% share of this company through CUIP.

The Founding of GeneSpector Innovations, Ltd.

Based on the previous cooperation, a new company, GeneSpector Innovations, Ltd., was founded on 1 June 2021, focusing on further research results of the Department of Paediatrics and Inherited Metabolic Disorders of the First Faculty of Medicine, Charles University, and General University Hospital, the Diagnostic and Research Laboratories for Inherited Metabolic Disorders, and other departments of the First Faculty of Medicine. A framework license agreement for contract research and transfer of knowledge was signed with this company. Charles University owns 40% of this company through CUIP.

Biomarkers

The first technology transfer to GeneSpector Innovations, Ltd., was the transfer of know-how developed under the leadership of Professor Stanislav Kmoch from the Department of Paediatrics and Inherited Metabolic Disorders of the First Faculty of Medicine, Charles University, and General University Hospital, based at the Diagnostic and Research Laboratories for Inherited Metabolic Disorders. This is a corporate invention patented under the name 'A method of predicting the severity of an infectious disease and a biomarker for use in this method and monitoring infectious disease therapy'. A Czech patent was granted for this invention and patent application under the International Patent Cooperation Treaty (PCT) has been filed, which obtained a favourable international patentability report. The method enables the prediction of severity of the course of infectious disease as well as monitoring of effectiveness of the therapy by detection of an mRNA biomarker in the swab from the nasopharynx using RT-qPCR. The authors of the invention are Prof. Ing. Stanislav Kmoch, CSc., Ing. Lenka Piherová, Ph.D., and M.Sc. Hana Hartmannová, Ph.D.

ELISA – Mucin 1

Another transfer from Professor Kmoch's team to GeneSpector Innovations Ltd. is a system for determining the frameshift protein of mutated mucin 1 (MUC1fs) in biological samples. The invention belongs to the field of immunological testing and analysis of biological material aimed at determination of its protein content. The technology is the result of collaboration between the First Faculty of Medicine, Charles University, and Wake Forest University, with the First Faculty of Medicine owning 70% and Wake Forest University 30%. The authors of the invention for the First Faculty of Medicine are Prof. Ing. Stanislav Kmoch, CSc., MS Martina Živná, Ph.D., Assoc. Prof. M.D. Jan Živný, Ph.D., and B.Sc. Helena Trešlová, and for the Wake Forest School of Medicine Kendrah Kidd and Prof. Anthony J. Bleyer. The protection of intellectual property associated with this invention was implemented by filing Czech and the international patent applications.

FlexiCare

At the end of 2020, Charles University entered the FlexiCare Ltd. through its spin-off CUIP, which owns a 15% stake in the company. Based on this cooperation, several inventions created within the Centre for Practical Applications Support and Spin-off Companies under the leadership of associate professor Karel Hána were transferred via a framework license agreement. Individual technologies are then further developed, commercialised by FlexiCare, and subsequently used by patients. Perhaps the most significant transfer in this cooperation is the telerehabilitation system for the support and monitoring of rehabilitating patients in their home environment, which has now entered common usage thanks to cooperation with rehabilitation centres.

Azacitidine

A three-party agreement regarding intellectual property rights and subsequent commercialisation of research results has been concluded between Brio Ventures LLC, CannaFamily, a. s., and the Charles University. This collaboration, under the leadership of Professor Tomáš Stopka for the First Faculty of Medicine, Charles University, resulted in the creation of a joint invention of a combination of substances with the effect of restoring sensitivity to treatment with the hypomethylating agent Azacitidine in haematological malignancies, specifically in the myelodysplastic syndromes. It is a method of treating progressive haematological malignancies which arise as a result of certain genomic aberrations. The invention takes the form of a legally defined food supplement composed of natural substances with a potentially therapeutic effect for patients with gradual failure of response to Azacitidine treatment.

*Ing. Vojtěch Malina,
Head of Department for Strategic Development*



PhDr. David Horváth, Ph.D., MBA, LL.M.,
Head of the Institute of Scientific Information of the First Faculty
of Medicine, Charles University and General University Hospital

INSTITUTE OF SCIENTIFIC INFORMATION OF THE FIRST FACULTY OF MEDICINE, CHARLES UNIVERSITY, AND GENERAL UNIVERSITY HOSPITAL

In accordance with the third fully amended Dean's Measure No. 5/2018 (Organisational rules of the First Faculty of Medicine, Charles University) which came into effect on 1 January 2021, the Institute of Scientific Information of the First Faculty of Medicine, Charles University, and General University Hospital in Prague (hereinafter referred to as ISI) is a joint department of the two institutions which provides professional information services to both employees and students in all accredited study programs at the First Faculty of Medicine, as well as to employees of the General University Hospital, and employees and students of other faculties of the Charles University and professionals in the field.

Subsequently, Dean's Measure No. 8/2021, a new organisational regulation of the ISI effective from 1 July 2021, enabled the creation of two separate departments: the Library Department and the Department for Science Support.

THE LIBRARY DEPARTMENT

The role of the department is to meet the needs of library users. The department primarily provides the following:

- library and interlibrary loan services,
- acquisition and processing of library funds,
- re-cataloguing
- usage, protection, and review of library funds,
- methodological assistance to other library and information centres of the First Faculty of Medicine, Charles University and General University Hospital,
- operation of a cloakroom service.

The beginning of the academic year 2021/2022 marked the peak of efforts of all the staff of academic libraries of the Charles University. This effort was connected with the launch of UKAŽ ('Charles University from A to Z') central search system, which replaced the existing university-wide library system Aleph. This new system which allows simultaneous search through all printed, electronic, and digitised information resources available at the Charles University. This large-scale action required a migration of data from Aleph to the new Alma platform and necessitated careful preparation and coordination by system librarians of the Central Library of the Charles University and the staff of the ISI. Users can now gain universal access to the Charles University library fund, provided they are part of the Charles University and have given their consent to the terms of use of the services of all academic libraries of the Charles University. Alma has been set up as a cloud service, which necessitated a change of work style for librarians, but the platform is intuitive and relatively easy to modify. Due to the variability of information funds across the Charles University, the new platform enables different points of access to these funds. Managers and library staff have been appropriately trained in the new agendas during the summer holidays, and further training is already underway in keeping with current requirements and the gradual launch of new library modules.

In light of the fact that the academic year had been extended over the traditional holiday months, the library addressed the needs of students by lengthening the opening hours of its lending system. Other welcoming steps towards students and

other users included the installation of a biblio box behind the main entrance to the building for returning borrowed items. This led to a significant reduction in social contacts of users in the library corridor and during the borrowing protocol, which was highly welcome under the difficult epidemiological circumstances. Under more normal circumstances, the purpose of the biblio box is to offer a quick alternative to those users who only need to return borrowed items and do not require any other library services. For almost the entire year, there was no longer any forced regulation of absentee loan services, users did not have to book their visiting times through the Moodle system, and that again increased the flexibility and comfort of use of the library services.

In the coming period, other important activities of the department will include the provision of methodological instructions to sub-libraries (e.g. for decommissioning library documents or filling out statistical reports), training of librarians, and continuing with the promotion of library events and news through the website of the ISI, social networks Facebook and Twitter, journal Jednička [Number One], newsletter General University Hospital News, and bulletin boards and plasma screens in the ISI and at the Dean's Office of the First Faculty of Medicine, Charles University.

DEPARTMENT FOR SCIENCE SUPPORT

The purpose of the department is to meet the scientific and professional needs of the employees of the First Faculty of Medicine, Charles University, and General University Hospital. The department is responsible for the following activities:

- records of publication activities and evaluation of scientific work
- reference services and management of e-resources
- open access publishing and open access science
- processing of historical funds, restoration, and digitisation of collections
- professional seminars and other educational events
- editorial and editing activities
- photo and video work.

The keeping of records of publishing and non-publishing activities is governed by Rector's Measure No. 40/2021 (Record of creative activities, projects, and employee mobility at Charles University). The collected records are processed for the needs of the Faculty and submitted to the Research, Development, and Innovation Information System (RIV); in 2020, a total of 1228 results from the First Faculty of Medicine, Charles University, were submitted. Another integral part of the activity is the agenda of citation responses and h-index values for the purposes of internal evaluation at the First Faculty of Medicine for each calendar year. According to the Web of Science database for 2020, the number of citations of publications by authors from the First Faculty of Medicine was a total of 74,019. In 2021, a selection of most outstanding results from 2016-2020 was organised to aid the evaluation of research organisations and help select nominations for the Dean's Council Award for excellence in publications for 2020. Materials for other annual awards (Folia Biologica Award, Josef Hlávka Award, Bedřich Hrozný Award, Jaroslav Jirsa Award, etc.) have also been developed and the so-called 'publication window' on the Faculty's website is being prepared (featuring science work by authors from the First Faculty of Medicine in the position of the first or corresponding author, published in peer-reviewed journals included in the first decile in their category according to the impact factor).

Together with the Grants Department and the Economy Department (both of the First Faculty of Medicine, Charles University), the Science Support Department has been involved in ongoing record-keeping of APC fees (Article Processing Charges) for publications in Open Access (OA) mode. The department participates in the verification of requests for payment of costs associated with publishing in this form from the OA fund of the First Faculty of Medicine, Charles University, which was established in 2021. In 2021, the Science Support Department also began to focus on the topic of scientific data processing in Open Science environment. A training was held on the topic of scientific communication in the Open Science environment. Promotional articles have been written on the subject and consultations provided on the possibility of storing scientific data.

The department provides information retrieval services and complete management of electronic information resources (databases of EIR, e-journals, e-books). EIR are provided for the First Faculty of Medicine, Charles University, and General University Hospital in cooperation with the Central Library of the Charles University and the CzechELib consortium. During the acquisition of EIR, emphasis is being placed on maintaining existing resources which are essential for the different medical fields (e.g. UpToDate, Micromedex) and which were carefully selected in cooperation with other medical faculties of the Charles University. EIR management includes ensuring technical availability – direct and remote access, communication with the Central Library of the Charles University and CzechELib, organisation of training, promotion (in addition to the abovementioned events and news, promotional banners offering prepaid EIRs were installed). Information retrieval is processed from all available EIR. The portal of e-magazines and e-books was newly integrated into the UKAŽ central search system. In cooperation with the Department for Science and International Relations of the First Faculty of Medicine, Charles University, the department participated in the formal evaluation of habilitation theses (required for associate professorship appointment qualification). The originality of the works is assessed based on the results of the university's Turnitin system. These results must always be subjected to a thorough manual check according to the Dean's measure No. 7/2021 (Methodological instruction on the

evaluation of plagiarism/self-plagiarism in dissertation and habilitation theses at the First Faculty of Medicine, Charles University).

In 2021, the ISI had actively participated in the National Digital Library DNNT (works not available on the market) project, which secures access to journals and monographs published in the Czech Republic until 2007 in the case of monographs, and until 2010 for periodicals. These are documents that are protected by copyright and are no longer available on the market. As part of the DNNT, access to the *Sborník lékařský* journal (Prague Medical Report) has been secured since August 2021. All the annual volumes processed so far (from 1887 to 1967) are now available in the Kramerius system, with universal access based on ID and password. In cooperation with the Department of History of Medicine and Foreign Languages, the Department of Anatomy, and the Department of Medical Biochemistry and Laboratory Diagnostics of the First Faculty of Medicine, Charles University, and General University Hospital, our department undertook restoration, processing, and digitisation of rare prints and archive materials, such as digitisation of Prof. Jan Horbaczewski's archive, restoration of the oldest periodical in the *Forum für Medicinalangelegenheiten fund* (1848–1849), restoration and digitisation of Pharmacology based on Prof. Horbaczewski's lectures, or restoration of woodblock prints from 1535, and returning the wooden blocks to their original state. The restoration does not only concern books – a life-sized printed image of a human skeleton has also been restored.

The editorial staff of the specialist Faculty journals manage the work connected with the publication of the *Folia Biologica* and *Prague Medical Report* journals. Both journals follow the OA regime and are indexed in various foreign databases (e.g., DOAJ, EBSCO, ProQuest, Medline, PubMed, Scopus). *Folia Biologica* prides itself on an impact factor of 0.906 for the year 2020. The department also provides administrative work related to the publishing activity of the First Faculty of Medicine, Charles University, realised through the Karolinum publishing house.

In 2021, the Video and Photo Section also addressed various issues relevant to teaching organisation. It made videos for the promotion of the Faculty, especially in the field of science. It produced dozens of educational video programmes for both undergraduate and postgraduate teaching, for example in the fields of anatomy, sonography, various live tissue sampling, and other areas including information literacy. It is at the moment preparing a series of educational videos on biochemistry, specifically on the procedures and processes in an automated biochemical laboratory, which should comprise a total of app. 12 films.

In addition to its regular activities, in 2022 the Department is planning to participate in support for the insertion of full OA texts into the university repository of the Charles University, to expand the DNNT portfolio (sending new suggestions for book volumes and periodicals and their subsequent processing and digitisation), to cooperate with the National Medical Library in the continuing replication of the *Sborník lékařský* (Prague Medical Report) journal, and revision of permanently purchased e-books. The Northern Light Life Sciences Conference Abstracts database, which is a comprehensive collection of paper abstracts and posters from scientific conferences focused on life sciences and pharmaceutical research, has been newly purchased in 2022. The database is backdated to 2010; it is searchable by name, date, and sponsor of the conference, author, name of drug, disease, medical device/material/device, gene or gene family, names of cells or enzymes, type of publication (abstract or poster), etc. Alerts can be set for automatically sending news to e-mail or via an RSS feed. The department is going to promote innovations in the field of Open Science, Open Access, and is preparing training on information literacy and evaluation of scientific activity (including individual consultations and individual training).

In addition to activities of its individual departments, the ISI participates in undergraduate teaching of students of the First Faculty of Medicine, Charles University. In the past academic year, in addition to traditional lectures and seminars, the department organised an elective seminar for students of general and dental medicine: Strategies for Working with Professional Medical Information. In addition to an introduction to the topic of EIR, citation, and plagiarism, it offered a speed-reading course in the form of blended learning. In the coming academic year, the Department, in cooperation with the Department for Science, Research and Teaching of the General University Hospital, is planning to contribute to the teaching of postgraduate students in an upcoming series of seminars.

MONOGRAPHS 2021

SELECTED BOOKS AND TEXTBOOKS PUBLISHED IN IMPORTANT PUBLISHING HOUSES IN 2021 BY AUTHORS OR CO-AUTHORS FROM THE FIRST FACULTY OF MEDICINE OF THE CHARLES UNIVERSITY

Axonite

- Rokyta, Richard, et al. *Stárnutí jako výzva a všechny odstíny šedi* [Ageing as a Challenge and All the Shades of Grey]. Mlečice: Axonite, 2021. 144 pp. ISBN 978-80-88046-28-8.

Česká kardiologická společnost [Czech Society of Cardiology]

- Cífková, Renata, et al. *Kardiologie. I–X* [Cardiology, I–X]. Prague: Česká kardiologická společnost, 2021. 2037 pp. ISBN 978-80-271-1439-9, ISBN 978-80-271-1997-4.

Česká společnost otorinolaryngologie a chirurgie hlavy a krku ČLS JEP

[Czech Society for Otorhinolaryngology and Head and Neck Surgery of the Czech Medical Association of J. E. Purkyně]

- Šatanková, Jana, et al. *Endoskopická diagnostika slizničních lézí pomocí úzkopásmového zobrazení* (Narrow Band Imaging): *příručka pro praxi* [Endoscopic diagnostics of pancreatic lesions using narrow band imaging: A practical manual]. Prague: Česká společnost otorinolaryngologie a chirurgie hlavy a krku ČLS JEP, 2021. 7 pp. ISBN 978-80-87837-28-3.

Česká společnost pro dětskou stomatologii [Czech Society for Paediatric Dentistry]

- Broukal, Zdeněk, et al. *Postupy v prevenci zubního kazu u dětí a mládeže: Doporučení České společnosti pro dětskou stomatologii* [Methods of carries prevention in children and youths: Recommendations of the Czech society for Paediatric Dentistry], 2nd ed. Prague: Česká společnost pro dětskou stomatologii, 2021. 39 pp. ISBN 0-000-00000-0.

EEZY Publishing

- Špaček, Ladislav, et al. *Etiketa pro lékaře, zdravotníky a pomáhající profese* [Etiquette for physicians, healthcare workers, and helping professions]. Prague: EEZY Publishing, 2021. 267 pp. ISBN 978-80-908101-4-3.

Euromedia Group

- Alušík, Tomáš. *Řecké mýty: Od Titánů k Ikarovi a Odysseovi* [Greek myths: From the Titans to Icarus and Odysseus]. Prague: Euromedia Group, 2021. 224 pp. ISBN 978-80-242-7651-9.

Galén

- Adamovičová, Miriam, et al. *Dětská neurologie* [Paediatric neurology]. Prague: Galén, 2021. 444 pp. ISBN 978-80-7492-557-3.
- Daneš, Jan, et al. *Screening a diagnostika karcinomu prsu: pro každodenní praxi* [Screening and diagnosis of breast tumours: for daily practice]. Prague: Grada, 2021. 205 pp. ISBN 978-80-271-1239-5.
- Důra, Miroslav. *Darierova choroba* [darier disease]. Prague: Galén, 2021. 109 pp. ISBN 978-80-7492-549-8.
- Klozar, Jan, et al. *Speciální otorinolaryngologie* [Specialised ororhinolaryngology], 2nd edition. Prague: Galén, 2021. 136 pp. ISBN 978-80-7492-560-3.
- Kohout, Pavel, et al. *Klinická výživa* [Clinical nutrition]. Prague: Galén, 2021. 944 pp. ISBN 978-80-7492-555-9.
- Nekolová, Jana, et al. *Moderní trendy v léčbě schizofrenie depotními antipsychotiky* [Modern trends in treating schizophrenia with long-term depot antipsychotics]. Prague: Galén, 2021. 32 pp. ISBN 978-80-7492-511-5.
- Nevšimalová, Soňa, et al. *Dětská neurologie* [Paediatric neurology]. Prague: Galén, 2021. 444 pp. ISBN 978-80-7492-557-3.

Grada

- Bednářová, Jana, et al. *Palpační techniky. Povrchová anatomie pro fyzioterapeuty* [Palpation techniques: Surface anatomy for physiotherapists]. Prague: Grada, 2021. 408 pp. ISBN 978-80-271-0670-7.
- Brzák, Michal, et al. *Transplantace orgánů v klinické praxi* [Organ transplantation in clinical practice]. Prague: Grada, 2021. 416 pp. ISBN 978-80-271-0721-6.

- Daneš, Jan. *Screening a diagnostika karcinomu prsu* [Screening and diagnosis of breast tumours]. Prague: Grada, 2021. 205 pp. ISBN 978-80-271-1239-5.
- Gerlichová, Markéta. *Muzikoterapie v praxi* [Music therapy in practice], 2nd ed. Prague: Grada, 2021. 168 pp. ISBN 978-80-271-1791-8.
- Hirmerová, Jana, et al. *Trombóza a malignita* [Thrombosis and malignity]. Prague: Grada, 2021. 192 pp. ISBN 978-80-271-3051-1.
- Kittnar, Otomar, et al. *Přehled lékařské fyziologie* [A synopsis of medical physiology]. Prague: Grada, 2021. 332 pp. ISBN 978-80-271-1025-4.
- Kittnar, Otomar and Mikuláš Mlček. *Regulace v lékařské fyziologii: atlas schémat* [Regulation in medical physiology: An atlas of charts]. Prague: Grada, 2021. 327 pp. ISBN 978-80-271-1240-1.
- Lenz, Jiří, Radek Chvátal, and Luděk Fiala. *Endometrióza* [Endometriosis]. Prague: Grada, 2021. 231 pp. ISBN 978-80-271-3050-4.
- Lukáš, Milan, et al. *Idiopatické střevní záněty II* [Idiopathic gut inflammations, II]. Prague: Grada, 2021. 312 pp. ISBN 978-80-271-3203-4.
- Měšťák, Jan a Ondřej Měšťák. *Rub a líc plastické chirurgie* [The advantages and drawbacks of plastic surgery]. Prague: Grada, 2021. 128 pp. ISBN 978-80-271-3025-2.
- Mixa, Vladimír, et al. *Dětská přednemocniční a urgentní péče* [Paediatric preclinical and urgent care], 2nd ed. Prague: Grada, 2021. 596 pp. ISBN 978-80-271-3088-7.
- Poprach, Alexandr, et al. *Zhoubné nádory močového měchýře* [Malignant tumours of the bladder]. Prague: Grada, 2021. 168 pp. ISBN 978-80-271-2503-6.
- Ptáčková, Hana, et al. *Psychosociální adaptace ve stáří a nemoci* [Psychosocial adaptation in old age and illness]. Prague: Grada, 2021. 184 pp. ISBN 978-80-271-0876-3.
- Seeman, Tomáš, et al. *Dětská nefrologie* [Paediatric nephrology]. 2nd ed. Prague: Grada, 2021. 584 pp. ISBN 978-80-271-3283-6.
- Stěpanov, Alexandr, et al. *Oční projevy systémových onemocnění* [Ocular symptoms of systemic diseases]. Prague: Grada, 2021. 311 pp. ISBN 978-80-271-1683-6.
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[Department of Rehabilitation Medicine of the First Faculty of Medicine, Charles University, and General University Hospital in Prague]

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- Bartoníček, Jan, Michal Tuček, and Ondřej Naňka. *Zlomeniny lopatky* [Fracture of the scapula]. Prague: Maxdorf, 2021. 640 pp. ISBN 978-80-7345-690-0.
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- Heissigerová, Jarmila, et al. *Oftalmologie: pro pregraduální i postgraduální přípravu* [Ophthalmology for pre-graduate and postgraduate study]. 2nd ed. Prague: Maxdorf, 2021. 395 pp. ISBN 978-80-7345-704-4.
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- Linhart, Aleš, et al. *Vyšetřovací postupy u kardiovaskulárních onemocnění* [Examination procedures in cardiovascular diseases]. Prague: Maxdorf, 2021. 690 pp. ISBN 978-80-7345-640-5.
- Martínek, Jan, et al. *Gastroenterologie a hepatologie v algoritmech* [Gastroenterology and hepatopathology in algorithms]. Prague: Maxdorf, 2021. 727 pp. ISBN 978-80-7345-684-9.
- Němec, Pavel, Bohdan Kousal, and Veronika Löfflerová. *Optická koherenční tomografie* [Optical coherence tomography]. 3rd ed. Prague: Maxdorf–Jesenius, 2021. 503 pp. ISBN 978-80-7345-713-6.
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Ústav teorie a praxe ošetrovatelství 1. LF UK

[Department of the Theory and Practice of Nursing of the First Faculty of Medicine, Charles University, and General University Hospital]

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Prof. MUDr. Aleksi Šedo, DrSc.,
Vice-Dean for international relations

Although the Covid pandemic is by now for the second year trying to throw the proverbial spanner in the works regarding the entire range of our international activities, internationalisation of our work seems rather to be expanding. And regardless of logistical and legislative limitations, the explosive spread of communication technologies which enable effective and flexible meetings at distance or in a mixed mode, it is well possible that the year just past had in fact resulted in a strengthening of our international contacts. The Faculty maintains its focus on improving the content quality of international relations and strengthening already concluded agreements with the aim to achieve concrete, actual results. These can take place on both interinstitutional and formally codified level and on the level of informal international contacts of individual institutes, departments, and their representatives, which then lead to new international grant projects and publications.

On the level of teaching and research, collaboration takes the form of bilateral educational postgraduate and pre-graduate activities, seminars, and congresses. Numerous international speakers have attended symposia and conferences organised by individual institutes or specialised medical societies in collaboration with the First Faculty of Medicine, Charles University. We have conducted an audit of the contribution of collaboration with our visiting professors, and together with the Rectorate of Charles University found an effective way of extending functioning cooperations without excessive paperwork. We are preparing further expansion of cooperation with our visiting professors, even over and above their primary relation to the individual units of the Faculty, for instance in terms of more general academic expertise, including their participation as external members in our Scientific Board. For our junior international collaborators, who directly participate in the work of our institutes and departments, we have defined and codified a status of 'visiting scientist'.

INTERNATIONAL STUDENT EXCHANGE AND STAYS ABROAD

ERASMUS+

In a comparison with other faculties of medicine of the Charles University, the First Faculty of Medicine offers the widest range of international stays and internships, whereby the Erasmus+ programme remains the cornerstone of student mobility.

The Erasmus+ programme started in 2021 another seven-years-long programme period (2021–2028). At our Faculty, we have re-evaluated the existing bilateral agreements and a vast majority of them was, after consultations with partner institutions, extended into the new period. In addition to extending the existing agreements, we have newly concluded institutional agreements in the area of physiotherapy, occupational therapy, and dentistry (see table International institutions with which new agreements on collaboration have been concluded). The Erasmus+ is divided in three key sections: Educational mobility (KA 1), Strategic partnerships (KA 2), and Support to reforms of educational policy (KA 3). Minimal duration of study stays and practical internships was newly set at two months in all areas, whereby students can repeat their stays up to a total length of 24 months in the case of long master's programmes. Postgraduate students can now, with the start of the new programming period, also travel for shorter stays (5–30 days).

In the academic year 2020/2021, a total of 42 of our students had travelled within the framework of the Educational mobility (KA 1) programme (many of our partner institutions did not accept exchange students due to the Covid pandemic). Our Faculty is still highly popular with international students. In the past academic year, their number dropped to 47, because

due to epidemiological measures the Faculty was accepting students only during the winter term. The KA 1 programme facilitates not only the mobility of students but also of employees. In 2021, the Faculty had hosted one academic and sent five abroad.

The fund of the Centre of Strategic Partnerships (Erasmus activity KA 2) had in 2021 supported six projects submitted by the Faculty: three with our strategic partners the Macquarie University in Sydney and the University of Zurich, and another three with our key partners, universities in Oxford and Cambridge. In addition to standard physical mobility, the allotted finances could also be used as remuneration to academics for preparing online activities and joint scientific projects which deepen the substance of our partnerships.

Since 2015, Erasmus+ has been supporting a bidirectional exchange of students and faculty also with countries outside Europe (International credit mobility, KA 3), preferentially mobility into the programme member countries, meaning mobility into Europe. Since the very beginning, our Faculty has been participating in this programme via its Department of Rehabilitation Medicine, with which we apply each year for support of collaboration with the Tel Aviv University, Sheba Medical Center. In 2021, the pandemic situation unfortunately did not enable any student or faculty mobility but both institutions remain in contact and as soon as the situation permits, we want to continue in this collaboration and realise both the postponed and new exchange stays.

In 2021, the Charles University had president the international university alliance 4EU+. This alliance includes, in addition to the Charles University and the Parisian Sorbonne, also universities in Warsaw, Milano, Heidelberg, and Copenhagen. Our Faculty had in 2021 hosted three students from Milano, three from Warsaw, and two from Sorbonne. In the opposite direction, two of our students went to the Sorbonne for a practical internship.

Teams from the First Faculty of Medicine also collaborate within the 4EU+ alliance via so-called mini-grants in the area of research-based education (preparation of a project proposal, organisation of a conference/workshop, travel costs related to meetings of a team, support of exchange of doctoral students and postdocs, short-term stays, administrative help, etc.). In 2021, our Faculty received a mini-grant for collaboration with partner universities in Warsaw and Sorbonne. On the platform of the thus established collaboration, we are preparing for 2022 also an oncology summer school in Warsaw that would be attended by lecturers and students from the participating universities.

To further broaden mobility, the First Faculty of Medicine also offers virtual mobility, currently especially for students from partner universities of the 4EU+ alliance. This type of mobility enables students to participate in one or more courses without the need for their physical presence.

THE MOBILITY FUND AND POINT

Support from the Mobility Fund was in 2021 granted to eight students and one academic. One student had travelled abroad within the framework of the programme of support of internationalisation.

IFMSA

Another activity which significantly contributes to further development of international contacts and stays of our students are stays and internships organised by the international nongovernmental organisation IFMSA. A unit of the First Faculty of Medicine had within this framework hosted for one month a total of 8 students and 26 students had travelled abroad.

OTHER TRAVEL ABROAD

As part of other activities aimed at supporting internationalisation of our Faculty, three postgraduate students had travelled to France.

Students of the English parallel of the First Faculty of Medicine have the option of travelling for a stay abroad at pre-agreed institutions in Israel. In 2021, a total of 32 students used this opportunity. Contract-based collaboration was expanded by the addition of three Israeli hospitals (see International institutions with which new agreements on collaboration have been concluded). Within the framework of the CEEPUS programme, we have accepted for an internship 4 students from Bosnia and Hercegovina.

The Charles University has also been developing support for so-called 'double' Ph.D. programmes. One of our doctoral students is currently using this option. Information about newly established bilateral relations, opportunities for internships, stays, and exchange programmes, is regularly published on our Faculty website.

Numbers of students who participated in international stays and internships in 2021

Programme	No. of outgoing students	No. of incoming students
Erasmus	42	47
IFMSA	26	8
Fond Mobility	8	0
POINT	1	0
CEEPUS	0	4
Interuniversity agreements	0	0
Faculty agreements	34	0

The Erasmus programme at the First Faculty of Medicine, Charles University

Academic year	No. of agreements	Outgoing	Incoming
1999/2000	3	5	
2000/2001	4	20	
2001/2002	9	34	2
2002/2003	20	59	4
2003/2004	28	76	36
2004/2005	46	99	46
2005/2006	57	104	67
2006/2007	58	121	65
2007/2008	76	121	69
2008/2009	81	116	93
2009/2010	85	129	89
2010/2011	85	125	90
2011/2012	85	114	89
2012/2013	91	100	95
2013/2014	85	122	112
2014/2015	86	127	109
2015/2016	89	122	104
2016/2017	90	120	103
2017/2018	92	88	108
2018/2019	125	99	115
2019/2020	129	43	93
2020/2021	122	42	47

International institutions with which new agreements on collaboration have been concluded in 2021

Name of the institution	Country	Collaborating unit at the First Faculty of Medicine, Charles University
University of Eastern Finland, Kuopio	Finland	Erasmus – Department of stomatology
University of Ljubljana	Slovenia	Erasmus – Department of rehabilitation Medicine
University of Zagreb	Croatia	Erasmus – General Medicine
Kaplan Hospital, Rehovot	Israel	Freemover travel of the English parallel
Tel Aviv Medical Centre	Israel	Freemover travel of the English parallel
Bnai Zion Medical Centre	Israel	Freemover travel of the English parallel
Chaim Sheba Medical Centre	Israel	Freemover travel of the English parallel

Visiting professors at the First Faculty of Medicine of the Charles University in 2021

Name of hosting institution	Visiting professor	Home institution
Institute of Biochemistry and Experimental Oncology of the First Faculty of Medicine, Charles University	Prof. Jonathan S. Duke-Cohan	Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, MA
Institute of Biochemistry and Experimental Oncology of the First Faculty of Medicine, Charles University	Prof. Hans-Georg Kräusslich	Department for Infectious Diseases and Virology, Heidelberg University
Department of Paediatrics and Hereditary Metabolic Disorders of the First Faculty of Medicine, Charles University and General University Hospital	Prof. Anthony J. Bleyer, M.D.	Nephrology Section, Wake Forest School of Medicine
Institute of Anatomy of the First Faculty of Medicine, Charles University	Prof. Abigail Saffron Tucker	King's College London
Institute of Anatomy of the First Faculty of Medicine, Charles University	Ján Bednár, doc., RNDr., Ph.D.	Institute for Advanced Biosciences Research center UGA
1 st Department of Surgery of the First Faculty of Medicine, Charles University and General University Hospital	prof. Dr. Med. Markus Wolfgang Büchler	Department of Surgery, Heidelberg University
1 st Department of Surgery of the First Faculty of Medicine, Charles University, and General University Hospital	Prof. Dr. Med. Hauke Lang, MA, FACS	Klinik für Allgemein-, Viszeral- und Transplantationschirurgie Universitätsmedizin der Johannes Gutenberg-Universität Mainz
2 nd Department of Surgery of the First Faculty of Medicine, Charles University, and General University Hospital	MUDr. habil. Ivan Matia, Ph.D.	Abteilung für Herz-und Gefäßchirurgie, Krankenhaus Nord – Klinik Floridsdorf, Wien Österreich
2 nd Department of Internal Medicine of the First Faculty of Medicine, Charles University, and General University Hospital	Prof. Perry Mark Elliott	Professor of Cardiology University College London
3 rd Department of Internal Medicine of the First Faculty of Medicine, Charles University, and General University Hospital	Prof. George Grunberger, MD, FACP, FACE	Clinical Professor, Internal Medicine and Molecular Medicine & Genetics, Wayne State University School of Medicine
Department of Infectious Diseases of the First Faculty of Medicine, Charles University, and Central Military Hospital	prof. Heiko Herwald, Ph.D.	Division of Infection Medicine, Biomedical Center, Lund University, Sweden
Department of Orthopaedics of the First Faculty of Medicine, Charles University, and Central Military Hospital, Institute of Anatomy of the First Faculty of Medicine, Charles University	Prof. Dr.med. Stefan Rammelt, PhD	Foot & Ankle Section, University Centre of Orthopaedics and Traumatology, University Hospital Carl Gustav Carus, Dresden
Department of Paediatrics and Heritable Metabolic Disorders of the First Faculty of Medicine, Charles University, and General University Hospital	Prof. Marcela Votruba	School of Optometry & Vision Sciences, University of Cardiff
Department of Paediatrics and Heritable Metabolic Disorders of the First Faculty of Medicine, Charles University, and General University Hospital, BIOCEV	C. S. Raman, Ph.D.	Associate Professor with tenure, School of Pharmacy, University of Maryland, Baltimore
Department of Ophthalmology of the First Faculty of Medicine, Charles University, and Central Military Hospital	Prof. Vladimír Krátký, BSc., MD, FRCS, DABO	Department of Ophthalmology, Queen's University, Kingston, Ontario
Department of Orthopaedics of the First Faculty of Medicine, Charles University, and Bulovka University Hospital	Prof. Dr. Med. Jiří Dvořák	Neurology, Spine Unit, Schulthess Klinik, Zurich
Institute of Medical Biochemistry and Laboratory Diagnostics of the First Faculty of Medicine, Charles University, and General University Hospital	Prof. Claudio Tiribelli, MD, PhD	Professor of Gastroenterology, University of Trieste Director of the Liver Research Center of Trieste
Department of Medical Biochemistry and Laboratory Diagnostics of the First Faculty of Medicine, Charles University a General University Hospital	Prof. Sergio Bernardini, MD, PhD	Head Physician of the Clinical Biochemistry and Laboratory Emergency Units, University of Tor Vergata, Rome



The main objective of the Department of Communication is to promote educational and research activities of the Faculty, and to communicate with its students and staff. In 2021, the Department of Communication continued to widen the scope of its activities aimed at the public and potential prospective students through nationwide, regional, and specialist media.

MEDIA AND PR

In 2021, the Covid-19 pandemic affected the operation of the Department of Communication, especially in terms of organising events involving a larger number of people. Communication inside and outside the Faculty therefore took place primarily in a hybrid online and offline format, while a significant number of events had to be completely cancelled in the end despite intensive preparations. The Department of Communication organised many of its activities online in the form of videos, streamed specialist events and lectures, which presented the activities of the Faculty to professionals and the public.

Programmes treating specialist themes, information from the world of academia and higher education, and pedagogical topics, were produced and passed on to the media in an online, popular science format. The Department of Communication continued its wide cooperation with the media, successfully making journalists aware of the affiliation of particular departments and their staff to the Faculty, deepened its cooperation with the PR departments of Faculty hospitals and regional hospitals, continued to cooperate with the science department of Czech TV, editors and programmers of the continuous Czech TV 24 broadcast, editors of the main news of Czech TV (Události / News Flash), and other TV stations such as CNN Prima News. It strengthened its cooperation with the Czech Press Agency as well as with other media with an interest in medicine, science, and education (e.g., Czech Radio's science team, Novinky.cz, Téma, Zdravé zprávy, Zdravotnictví a medicína, Seznam Zprávy, Vitalia, etc.).

The Department of Communication managed to organise three press conferences before the outbreak of the coronavirus epidemic, and issued a number of press releases, both independently and in cooperation with partner departments, in which the Faculty presents the research and scientific activities of Faculty teachers and students, awards for our experts, or significant anniversaries of the different departments and fields of medicine.

PRESS CONFERENCES:

- Prevention of children's addictive behaviour in general practitioners' offices (30 June 2021)
- 100 years of forensic medicine at the Hlava Institute in Albertov (15 September 2021)
- Research has revealed the real requirements of Czech patients for telemedicine (30 November 2021)

SELECTED PRESS RELEASES:

- First Faculty of Medicine, Charles University, supports healthcare for homeless people (12 January 2021)
- Czech researchers are looking for ways to defeat aggressive non-Hodgkin lymphomas (18 January 2021)
- Spine surgery gentler and safer (29 January 2021)
- Doctors in Motol used a 3D microscope for the first time to operate on a benign ear tumour (12 February 2021)
- Wikiscripta of the First Faculty of Medicine of the Charles University celebrates a double success (24 February 2021)
- When exactly does the moment of death occur? An international study provides the answer (15 March 2021)

- International conference will reveal how quarantine affects eating disorders (31 March 2021)
- Telemedicine can reduce the number of visits to the doctor by half (7 April 2021)
- On World Voice Day, doctors invite patients to their clinics (15 April 2021)
- Addictologists from the First Faculty of Medicine, Charles University, are preparing new tools for prevention of mental illnesses in children (17 May 2021)
- Europeans reduced their alcohol consumption during the first wave of the pandemic. This does not apply to everyone (10 June 2021)
- Up to a third of infected Czechs caught Covid-19 at work. Most frequently health professionals and teachers (2 August 2021)
- Scientists discovered a clearance cairn at Čertova brázda near Lipno (30 August 2021)
- A university spin-off comes up with a new diagnostic method. It was developed by scientists from the First Faculty of Medicine, Charles University (9 September 2021)
- Forensic medicine has been based in the Hlava Institute for a full century. It helps clarify criminal cases (15 September 2021)
- Israelis agree with the First Faculty of Medicine, Charles University, on the joint education of medics (17 September 2021)
- A special pillow with the potential to change established procedures in the treatment of head injuries (3 November 2021)
- After the tumour was frozen, the patient was completely cured of cancer (16 November 2021)
- Research by the First Faculty of Medicine, Charles University, reveals real demand of Czech patients for telemedicine (3 December 2021)
- Czech scientists have found a gene mutation that causes a serious hereditary disease (20 December 2021)

COOPERATION WITH THE MEDIA

In addition to press conferences and press releases, the Department of Communication facilitated dozens of interviews and statements by our experts for television, radio, internet, and printed media. Selected media outputs are listed on the Faculty website in the 'What others wrote about us' section, and a selection of interviews and articles from the media are also printed in the journal *Jednička* (Number One) in section *Jednička v médiích* (Number One in Media).

MEDIALOGUES PROJECT

The MEDialogues – Dentistry in the Czech Republic and at the First Faculty of Medicine – programme took place during the autumn semester, on 15 December 2021. What is the current state of dentistry in the Czech Republic? Are there enough dentists in the Czech Republic? What myths in dentistry are easy to debunk? What has the Covid-19 epidemic changed in dentistry? What has changed in the education of future dentists? What is new in dental science at First Faculty of Medicine, Charles University? Why do Czech dentists return to the Czech Republic from abroad? All the above and other questions were answered by: Prof. M.D. René Foltán, Ph.D., head of the Dental Clinic of the First Faculty of Medicine, Charles University, and General University Hospital and Vice Dean of the First Faculty of Medicine, Charles University, for dentistry, M.D. Eitan Brizman, BDS, doctor at the Dental Clinic and Vice Dean For International Relations, MDDr. Antonín Tichý, Ph.D., graduate of the First Faculty of Medicine, Charles University, and doctor at the Dental Clinic of the First Faculty of Medicine, Charles University, and General University Hospital M.D. Pavel Chrz, dentist, President Emeritus of the Czech Stomatology Chamber. MEDialogues was moderated by Ing. Daniel Stach.

MEDIA MONITORING

In 2021, The Department of Communication continued to use the media outputs monitoring tools provided by the Toxin agency to track items about the First Faculty of Medicine, Charles University. In addition to lower financial demands, the agency also offered new options for monitoring social networks and managing information resources (MAXIMUS), analysis of media monitoring and transcriptions of audio-visual recordings. On a daily basis, the Department of Communication publishes a list of published items about the First Faculty of Medicine, Charles University, from all media for the previous day. The list is in the Media Employees tab of the Faculty's website. It also offers employees the option of including their e-mail address in the distribution of a weekly overview, which is sent out via newsletter at the end of the week.

THE JEDNIČKA JOURNAL

In 2021, the Faculty published a total of five issues of its journal, the *Jednička* [Number One], always in printed as well as an electronic version. In addition to communication between students and teachers, the journal also serves as feedback for Faculty management and functions as a PR tool for high-school applicants who wish to study at the First Faculty of Medicine. In the journal, the Faculty presents, among other things, the professional, scientific, and research activities of its teachers and students, introduces readers to the history of its institutes and departments, and invites public to events organised

by the Faculty. Regularly published information on foreign internships of our students, international cooperation of our academics, information about Visiting Professors, and humanitarian missions of our doctors supports internationalisation. Jednička also facilitates access to the Faculty graduates and members of the Alumni Club. The journal is published in a circulation of 2,000 copies and is distributed to all units of the First Faculty of Medicine, Charles University, as well as the General University Hospital, Central Military Hospital Prague, Thomayer University Hospital, Bulovka University Hospital, Motol University Hospital, Faust House, the University of Warsaw Rectorate, and to select Czech grammar schools.



APPLICATION AND POTENTIAL PROSPECTIVE STUDENTS

PUBLICITY MATERIALS

The Department of Communication has updated the Freshmen's Guide and the Erasmus Arrival Guide brochures. New leaflets for individual study programmes have been created.

EVENTS

The Open Day

(9 January 2021) offered potential prospective students the opportunity to see the premises of the Faculty and find out what would await them here during their studies in medicine, dentistry, or non-medical fields. Due to the epidemiological situation in the Czech Republic, the Open Day took place only online. A total of 17,626 people viewed the Faculty website in a single day. 2,947 people opened the Open Day tab on the web that day. The total number of views of the videos on study programmes and teaching on the Faculty YouTube channel was 3,900 that day. Over 1,100 potential students joined the online Q&A stream.

Jednička [Number One] Try-Out

Due to the epidemiological situation, the Jednička Try-Out took place remotely in the form of a newsletter.

Vysokéškoly.cz Fair

The First Faculty of Medicine opened a purely virtual stand on 9–10 November 2021 at the online university fair organised by the Vysokéškoly.cz portal. In addition to providing information about the Faculty, the online chat with participants worked very well. By participating in the Fair, the Faculty boosted its September victory as the most visited Faculty on the portal's pages in the category of medicine and pharmacy. The Faculty profile had a remarkable total of 80,000 visits in one year. The First Faculty of Medicine was not only first among the most visited medical faculties, but also shared the third–fourth place among the most visited faculties in the Czech Republic.

Na Karlovku Tour

The First Faculty of Medicine, Charles University, participated in the Na Karlovku Tour event on 13 November 2021. Vice Dean for Admissions Prof. Jana Dušková presented a lecture introducing the study at the First Faculty of Medicine. The Head of The Student Affairs Department, Ing. Markéta Sochorová, also answered the applicants' questions. Students of general medicine, dentistry, addictionology, and occupational therapy prepared an accompanying programme with practical demonstrations and competitions for potential students.

Gaudeamus

On 22–26 November 2021, the Department of Communication together with students organised Faculty participation in the tertiary and life-long education fair Gaudeamus in Brno.

Junior University

On 13 October 2021, the First Faculty of Medicine presented its programmes on the grounds of the Charles University as part of the Junior University for secondary school graduates.

Science Fest

On 8 September 2021, the Department of Communication organised participation of the First Faculty of Medicine, Charles University, at the Science Fest for pupils and students of Prague schools and the general public on Victory Square in the Dejvice district of Prague. The Faculty was represented by a team from the Centre for Medical Simulations (SIM Centre), led by B.Sc. Alan Mejstřík.

Jednička – A Rough Draft for potential students

For the participants of preparatory courses, which had to take place online in 2021 due to Covid-19, the Jednička – A Rough Draft event was organised offline in the form of a newsletter.

Interactive workshops for secondary schools

These events did not take place in 2021 due to the Covid-19 pandemic.

INTERNAL COMMUNICATION

ALUMNI FIRST FACULTY OF MEDICINE, CHARLES UNIVERSITY

In 2021, the Alumni Club of the First Faculty of Medicine, Charles University, welcomed 55 new members, with a total of 1,210 members registered in the Alumni Club as of the end of the year in total.

On 2 October 2021, the First Faculty of Medicine, Charles University, held the 50th Anniversary Golden Anniversary Graduation Ceremony for 1970 graduates together with 1971 graduates due to Covid-19 restrictions. The traditional gathering of graduates of the First Faculty of Medicine could not take place due to Covid-19 restrictions. Even in 2021, however, members of the Alumni Club of the First Faculty of Medicine continued to regularly receive a newsletter that informed them about interesting and important events at the Faculty.

BONUSES

The Department of Communication also administers two programmes with bonuses for students, staff, and alumni of the Faculty.

Medikarta – This card offers students, staff, and teachers discounts in businesses both in the vicinity of the Faculty and beyond. The most popular bonuses traditionally include a discount on coffee and refreshments (La Terra Coffee, KALDI coffee, Bao Bao, and Momento restaurants), as well as discounts on Lavenda or Cadenza medical clothing, on specialist publications in the Academic Bookshop, or on complete dioptric glasses at Grand Optical stores.

Alumni card – This card works on a similar principle and is intended for alumni of the First Faculty of Medicine, Charles University, who receive it after registering in the Alumni Club. Discounts apply, for example, to Britannika language courses, a stay in the Mariánské Lázně spa, at the wellness hotel Borovica, and many others.

PRINTED MATERIALS

In 2021, the Department of Communication commissioned the publication of printed materials for employees and students (e.g., the Annual Report on the activities and management of the First Faculty of Medicine, Charles University, for 2020 in Czech and English) and published the Jednička journal in bimonthly intervals. Information leaflets about individual study programmes (medical and non-medical) and the Freshmen's Guide brochures were again updated in Czech and English. A brochure about the Faculty is also available at the Department of Communication for promotional purposes, in both Czech and English.

PROMOTIONAL MERCHANDISE

In 2021, the Department of Communication offered several items of promotional merchandise, such as popular lab coats with a logo, Faculty sweatshirts, t-shirts with a logo, or small practical items such as hand sanitiser gels, ear plugs, buttons, plasters, and chewing gums, all featuring the logo of the First Faculty of Medicine. Novelty 2021 promotional items with the Faculty logo included a much-loved ceramic mug and thermal mug, umbrellas, and a first aid kit.

BOOK LAUNCHES

On 21 September 2021, the publication *Scapular Fractures* by Prof. Jan Bartoniček was launched in the Institute of Anatomy of the First Faculty of Medicine.

EVENTS

Faculty calendar – A photo calendar was created for the calendar year 2022, which focused on the architectural details of the Faculty buildings. On 1 October 2021 at the 'Jednička na startu' [Number One Start] event, the calendar was launched by the Dean of the First Faculty of Medicine, Prof. Martin Vokurka, together with the photographer Markéta Sýkorová and other guests. The Department of Communication also prepared a set of journals for the calendar year 2022, featuring the photos from the wall calendar.

133RD MEDICS' PROM BALL

The ball did not take place in 2021 due to the Covid-19 pandemic.

JEDNIČKA NA STARTU (NUMBER ONE START)

This event, which brings together first-year students and their senior colleagues and teachers, took place on 1 October 2021 in the inner courtyard of the Gynaecology and Obstetrics Clinic of the First Faculty of Medicine, Charles University and General University Hospital. In addition to the launch of the Faculty calendar, it included presentations of student associations for the freshmen, sale of Faculty sweatshirts and lab coats, and music.

CONCERT FROM THE SERIES FACULTY IN THE HEART OF KARLOV

In autumn 2021, the Department of Communication organised a concert in the Church of the Assumption of the Virgin Mary and St Charles the Great. On the eve of the national holiday on 17 November 2021, iconic compositions were performed by the mixed chamber choir and chamber string orchestra Piccolo coro & Piccola orchestra, under the baton of conductor Marek Valášek. The 31st Faculty in the Heart of Karlov concert was held under the auspices of the Dean of the First Faculty of Medicine, Prof. Martin Vokurka.

JEDNIČKA (NUMBER ONE) FOR THE STAFF

The Department of Communication also recently organised a series of courses for the staff of the Dean's Office. In 2021, staff could gradually sign up for a tour of the Museum of Normal and Comparative Anatomy at the Institute of Anatomy, the Museum of Dentistry at the Dental Clinic, and one of the five first aid courses organised by the Department of Communication in collaboration with B.Sc. Alan Mejstřík, which took place in the Centre for Medical Simulations (SIM Centre) at the Institute of Physiology.

JEDNIČKA (NUMBER ONE) FOR STUDENTS

The Department of Communication in cooperation with M.D. Martin Vejražka organised Venous Blood Collection workshops, where students practiced blood sampling on venepuncture phantoms. The course received positive feedback from students.

STUDENT SCIENCE CONFERENCE

The Department of Communication participated in the promotion of the Student Science Conference (which took place remotely), published the SSC proceedings and prepared a gala event (small-scale) for the winners of the competition. Even in 2021, the conference retained the form of a competition in lecture, poster, and printed form, in both undergraduate and postgraduate sections.

ACADEMIC CLUB

In 2021, the premises of the Academic Club of the First Faculty of Medicine were used only in the spring months, after which, due to a worsening epidemic situation, the club was closed along with other spaces at the Faust House, such as the Student Union clubhouses. In the spring, the club hosted a meeting of student associations with the then Dean Prof. Aleksí Šedo, where the first part of the funds, which amounted to CZK 20,000, was also presented to the registered charity *Medici na ulici* [Medics in the Street]. The money had been collected at a spring sports challenge organised by the Institute of Physical Education.

In addition to the regular exhibitions, the club's programme included the Chair for Faust, whose guest was Assoc. Prof. Jan Bláha, Head of Department of Anaesthesiology, Resuscitation, and Intensive Medicine (KARIM) of the First Faculty of Medicine, Charles University, and General University Hospital. Until the spring of 2021, Dixieland Friends of the First Faculty of Medicine, Charles University, and the Jonáš Theatre Club also organised their performances at the club. After that, the academic club was closed for social events due to Covid-19 restrictions.

OTHER

The Department of Communication initiated the establishment of several new parking stands in the yard of the ISI. For the 'virtual' events, namely Science and Technology Week 2021 and the Science Cafe, videos and seminars were created with the lecturers, which were made available on the YouTube profile of the First Faculty of Medicine, Charles University.

On 14 October 2021, the Department of Communication organised a screening of the documentary Intensive Life Unit in the auditorium of the Institute of Anatomy for students and staff. Its central actors were Assoc. Prof. Kateřina Rusinová, the Head of a newly established Department of Palliative Medicine of the First Faculty of Medicine, Charles University, and General University Hospital, and senior physician of the Department, M.D. Ondřej Kopecký.

On 21 October 2021, the Department of Communication organised a commemorative afternoon for the Jesenský brothers, heroes and nephews of Prof. Jan Jesenský, founder of the Department of Dentistry of the First Faculty of Medicine, Charles University, and General University Hospital.

COOPERATION WITH STUDENTS

Our cooperation with student organisations and students working at the Faculty had continued (Union of Czech Medical Students, Association of Dental Students of the Czech Republic, MEDSOC, International Federation of Medical Students Associations IFMSA CZ, ČASA, SPOT Prague, Association of Physiotherapy Students, SANT, Allsono, Loono). The new Facebook group for these associations, called *Spolky 1. LF UK*, was also valuable in 2021 due to fast and efficient communication.

WEB PAGES AND SOCIAL NETWORK

In 2021, according to updated data from Google Analytics, the website of the Faculty (www.lf1.cuni.cz) received a total of 2,991,525 (of which 2,324,039 unique) views worldwide. The most visited sections of the website were information on the admission procedure and the section for potential students. Most visitors to the website came from the Google search engine. However, the portal www.vysokeskoly.cz and our own social networks also brought in a non-negligible part of the visitors.

In the long term, we want to further develop Faculty social networks aimed at potential and current students, alumni, as well as Faculty staff and the public. We regularly inform about events at the Faculty on Facebook and Instagram. We support student associations and their events (mainly online conferences and lectures in 2021). We regularly spread awareness about current events connected with the Faculty, scientific topics, but we also support students and their initiatives. On both platforms, a large paid campaign takes place every year, focusing on potential prospective students at the Faculty; this campaign presents the individual departments and advantages of the Faculty and invites potential students to our Open Day. According to the updated data, this targeted campaign reached 374,355 persons and had 1,006,387 views in 2021. This campaign resulted in an 83% boost in reach for our posts and a 283% boost in post views. The costs of this campaign amounted to CZK 23,950.

In 2021, we also expanded the portfolio on the Faculty YouTube channel, where we reported on the current Covid-19 situation, and related changes in teaching; at the same time, we used the online space for communication with potential students (with overviews of teaching at our Faculty, etc.). This period helped us to exponentially increase the number of videos and views of the content on YouTube. The database of Faculty photos on Flickr was regularly updated. The importance of online communication platforms was fully demonstrated during the Covid-19 pandemic, when our social networks became an irreplaceable communication channel.

[Google Analytics Charts]

Dosah

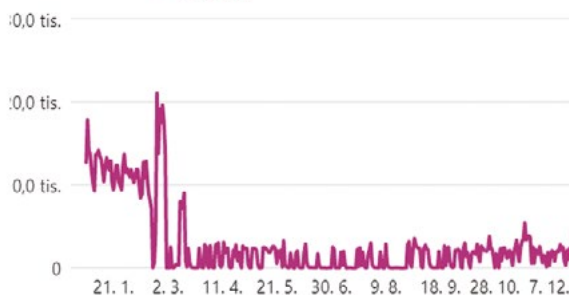
Dosah Facebook stránky ⓘ

472 016 ↑ 891.3.%



Dosah na Instagramu ⓘ

267 941 ↑ 2.8.tis. %



PROFESSIONAL AND SCIENTIFIC JOURNALS

In 2021, the First Faculty of Medicine, Charles University published two scientific journals: *Folia Biologica* (<https://fb.cuni.cz/>) and *Prague Medical Report* (<https://pmr.lf1.cuni.cz>). The impacted *Folia Biologica* (IF in 2020: 0.906) is an international journal focused on cellular and molecular biology. Authors are charged a fee of 500 EUR per accepted manuscript to partially cover publication costs. In 2021, the editors received a total of 86 manuscripts for assessment, of which 26 articles were published in six issues of the journal. The journal has been struggling with lack of good quality texts for a long time. The non-impacted *Prague Medical Report* is more oriented towards clinical practice. In 2021, the editors received 67 documents for review and 29 of them were published. The prize of the *Prague Medical Report* magazine for young authors under 35 years of age for the year 2021 was won by the article Chmel M.: *Salmonella Paratyphi Infection: Use of Nanopore Sequencing as a Vivid Alternative for the Identification of Invading Bacteria* published in the issue PMR 2/2021.

REPORT ON THE ECONOMIC ACTIVITY

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REPORT ON THE ECONOMIC ACTIVITY OF THE FIRST FACULTY OF MEDICINE, CHARLES UNIVERSITY



Ing. Tereza Lukášová,
Bursar of the Faculty

Total economic result of the First Faculty of Medicine for 2021 is a profit of CZK 479,000. Overall expenses reached a volume of CZK 1,627 million (index 106.5%). The resulting positive balance was aided by supplementary activities whose net profit was CZK 17,875,000 CZK.

MAIN ACTIVITY TOTAL (EDUCATION AND RESEARCH)

Total volume of proceeds from main activity reached CZK 1,591 million, which represents an annual increase + CZK 75.6 million. An overview of selected costs and earnings as well as investments in 2021 in the Faculty's main activities is presented below:

Structure of financial resources

Types of costs	In millions CZK
Investments – subsidies	66
Investments – contributions from own resources (FRIM)	14.1
Subsidies + contributions (budgetary and non-budgetary)	1,086.1
Fees (international students, non-standard length of study, admissions procedure)	326.5
Settling of funds (earmarked funds, scholarships, and social)	81.9
Other	19.4
– Acts of the Study Department, expert opinions, letters of credit, damage reimbursements, etc.	17.5
– Exchange rate profits	1
– Interests from current accounts	0.9

Structure of costs

Types of costs	In millions CZK
Salaries incl. social costs	1,070.79
material (chemicals, small tangible possessions, general materials, office supplies, books, animals and animal feed, cleaning supplies)	133.59
Scholarships	67.7
Services incl. energies	85.44
– Services (mail costs, cleaning, training, phone costs, small intangible property)	55.24
– Energies	30.2
Transfers to co-researchers	68.47
Repairs	18.89

Types of costs	In millions CZK
Amortisation (only long-term tangible property)	18.51
Travel costs	3.08
Other	46.86
– Payments to a social fund	15.14
– Internal costs (accommodation, travel, meals)	9.45
– Exchange rate losses	8.1
– Payments to the scholarship fund	7.85
– Bank fees, insurance, rent, debts, other taxes, representation	6.31

PROJECTS SUPPORTING THE DEVELOPMENT OF EDUCATIONAL ACTIVITIES AT THE FIRST FACULTY OF MEDICINE, CHARLES UNIVERSITY, IN 2021 AND DEVELOPMENT PROGRAMMES

Projects implemented through the institutional plan of the Ministry of Education, Youth, and Sports of the Czech Republic supported the development of a comprehensive system of further education for the staff of the First Faculty of Medicine, Charles University, for instance within the framework of using an innovative educational technology, Futurebooks, which facilitates the production of educational materials. In addition, two installations of the Moodle system were put into operation. Considerable support has been given to the development of medical simulation teaching environment and methodology, a process which required the training of lecturers and preparation of a methodology amended based on feedback from which had already been taught. The network of consultants from various disciplines (paediatrics, surgery, gynaecology, obstetrics, and intensive care medicine) has also been expanded. On top of that, new multimedia audio-visual teaching rooms were created and equipped for practical – but in 2021 mainly distance – learning in the form of live streaming, webinars, remote student testing, teleconferences, and recording of teaching materials. Distance learning has been significantly supported by institutional plan projects by equipping the units of our Faculty with sets for electronic communication.

WikiScripta [WikiLectures] continues to be the most widely used website for support of medical education in the Czech Republic. New interactive tools (e.g., a set of quiz questions from pathophysiology) have been developed, while previously published materials were modified and updated.

Student mobility was severely limited due to the pandemic. Trips within the framework of staff and university teachers' mobility mainly took place at the end of the year

Itemised cost breakdown of the investment plan is as follows:

IP expenses	In mill. CZK
Material + DHM	1,855
Services	0,409
Travel expenses	0,164
Salaries	3,390
Investments – property	3,770

The First Faculty of Medicine, Charles University, continued to work on large research infrastructure projects for the period 2020–2022. The Faculty is the principal investigator of the National Centre of Medical Genomics (NCMG) project; we are partners in the projects Czech-Biomed – National Infrastructure for Biological and Medical Imaging and EATRIS-CZ – Czech National Node to the European Infrastructure for Translational Medicine.

The past year, 2021, was the fifth year of operational projects Research, Development, and Education (OP VVV) where our Faculty administers projects from calls 13, 15, 16, 18, 27, 44, 43, 53, and 54.

RESEARCH PROJECTS AND GRANT PROJECTS

In 2021, the total subsidy for research projects amounted to CZK 490.2 million, which is an annual increase of CZK 11 million. Of this, the Faculty sent CZK 69.2 million to its co-investigators. The Faculty's funding was CZK 2.5 million higher than in the previous year. The institutional Progres projects were completed: the Faculty was involved in 11 projects, in 6 of those as programme coordinator and in 5 as a co-investigator. The Progres grant represents 39% of the total amount of funds allocated for science and research to the First Faculty of Medicine. In the following year, institutional funding will be implemented via the Cooperatio programme. In 2021, 15 university-specific research projects (SVV) were implemented at the First Faculty of Medicine. A total of 15.2 million EUR were allocated for these projects, which is a similar amount as in the previous year.

A significant budget item was scholarships, which amounted to CZK 7.5 million, i.e., 50% of the total subsidy for SVV projects. A total of 491 students worked on SVV projects in 2021. A second year of University Research Centers Competition (UNCE) took place; this initiative offers targeted support to young and promising academics in the best basic research groups. At the First Faculty of Medicine, Charles University, a total of 4 UNCE projects were conducted, where the Faculty was the principal investigator in 3, with total funding of CZK 15.4 million.

In 2021, project Centre for Tumour Ecology – Research of Cancer Microenvironment Supporting Cancer Growth and Spread, funded under the operational programme Research, Development, and Education, continued. Non-investment costs were CZK 26.7 million, while CZK 2.9 million was spent on investments. This year also saw a continuation of project Development of a Software Solution and Prototype for Diabetics: DICATIL – DIabetes CAre – Time for Life, which is supported from the Enterprise and Innovation for Competitiveness operational programme by CZK 3.5 million. Project Life 2.0 – Diabetes and Weight Control was completed with a cost of CZK 0.4 million.

The Faculty had recently been granted support for two additional projects from the Enterprise and Innovation for Competitiveness operational programme. The first of the supported projects is Telerehabilitation System for Supporting Patients in Distance Care; the second project is called Establishment of a Technology Platform for the Development of Specific Antibodies against Coronavirus Infections.

In 2021, some CZK 1 million that could not be spent within grant projects according to the relevant rules of the grant agencies were returned to the state budget. Savings were achieved mainly in travel expenses, services, and operating costs. Of this, CZK 0.3 million was reimbursed to co-investigators. In the science and research, the Faculty cooperates with other organisations, such as other faculties of Charles University, the Academy of Sciences of the Czech Republic, and the General University Hospital. In the total amount of funds, co-research projects (where the First Faculty of Medicine, Charles University, is a co-recipient) are included in the amount of CZK 70.1 million.

STRUCTURE OF RESEARCH PROJECTS IN TERMS OF RESOURCES

Funds allocated according to resources in 2021 (without co-researchers' funds)

Resources	In mill. CZK	Disbursement structure of allocated funds including investments for 2021	
			In %
Progres	164.7	Personal + scholarships	52.01%
Czech Health Research Council	78.4	Overhead costs	18.89%
Czech Science Foundation (GAČR) Republic	43.2	Material	16.91%
Ministry of Education, Youth and Sports	42.5	Services	5.53%
University Research Centers Competition	15.5	Small assets	2.65%
Charles University Grant Agency	10.9	Investments	3.53%
Ministry of Industry and Trade	6	Travel expenses	0.48%
Specific research	14.7		
Foreign	4.3		
Other	40.7		

COMPLEMENTARY ACTIVITIES

Another part of the economy at the Faculty are complementary activities. The individual tasks of complementary activities help us to better utilise human and instrumental capacity at the departments. In doing so, the salary of the employees involved increases.

In 2021, the total costs from the tasks of complementary activities amounted to CZK 19.316 million and the total income from complementary activities amounted to CZK 37.191 million. The economic result of the Faculty from complementary activities was CZK 17.875 million.

The distribution of complementary activities remains the same as in previous years. It consists of five types of tasks:

1. Rentals (action type 10,101) – all short-term and long-term rentals.
2. Cooperation agreements (action type 13) – for instance tasks in the area of development, consultancy and advisory activities, analyses, breeding of laboratory animals, etc.
3. Other tasks (action type 14) – tasks dealing with company presentations, commissioned forensic reports, study department tasks, sale of model questions, books, texts for practical exercises, publication of the Folia Biologica journal.
4. Courses (action type 15) – non-accredited courses, training events, massage course, preparatory courses for applicants.
5. Contract research (action type 16, 18) – revenues from this area show that contract research that 2021 was an extremely successful year for our Faculty.

Structure of revenues and costs of complementary activities

Revenues	In mill. CZK	Costs	In mill. CZK
Cooperation	11.22	Overhead costs	7.55
Rentals	3.52	Personnel costs	5.7
Courses	1.42	Services	1.3
Contract research	16.93	Material	3.65
Other	4.1	Other	1.11

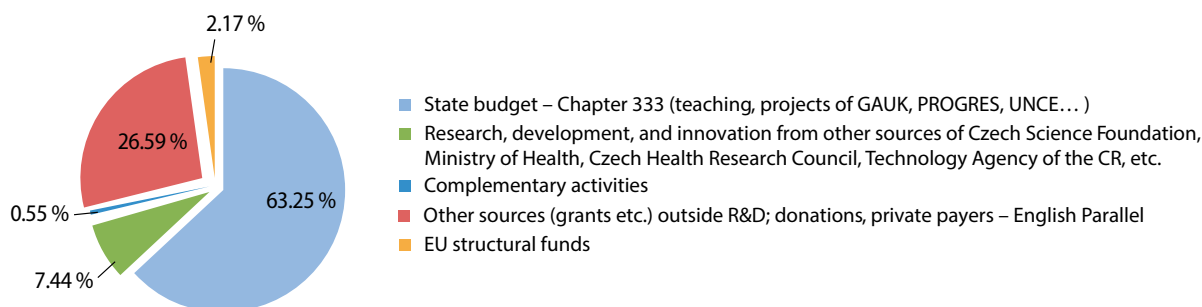
PERSONNEL AND SALARY POLICY

Employee salaries are one of the most significant items in the Faculty budget. The First Faculty of Medicine, Charles University, is governed by internal salary regulations of Charles University.

Utilisation of salary funds including other personnel costs for 2021 by funding source

Source	2019 (in CZK)	% of the total	2020 (in CZK)	% of the total	2021 (in CZK)	% of the total
State budget – Chapter 333 education, GAUK, PROGRES, UNCE... projects	457,001,797	61.8	460,036,745	62.63	497,064,649	63.25
Research, development, and innovation from other GAČR, AZV ČR, TAČR... sources	75,693,405	10.24	61,568,310	8.38	58,451,539	7.44
Complementary activities	1,428,428	0.19	2,098,928	0.29	4,336,686	0.55
Other sources (grants etc.) outside V, Va; donations, private payers – English Parallel	199,215,899	26.94	190,786,378	25.97	208,949,509	26.59
EU structural funds	6,203,615	0.84	20,089,949	2.73	17,015,362	2.17
Total	739,543,144	100	734,580,310	100	785,817,745	100

Source



Comparison of average monthly salary in CZK from Chapter 333 – Ministry of Education, Youth and Sports (without other personnel costs) by profession.

Funds under the long-term financial measure to increase the capacity of medical faculties (indicator P, Government Resolution No. 563).

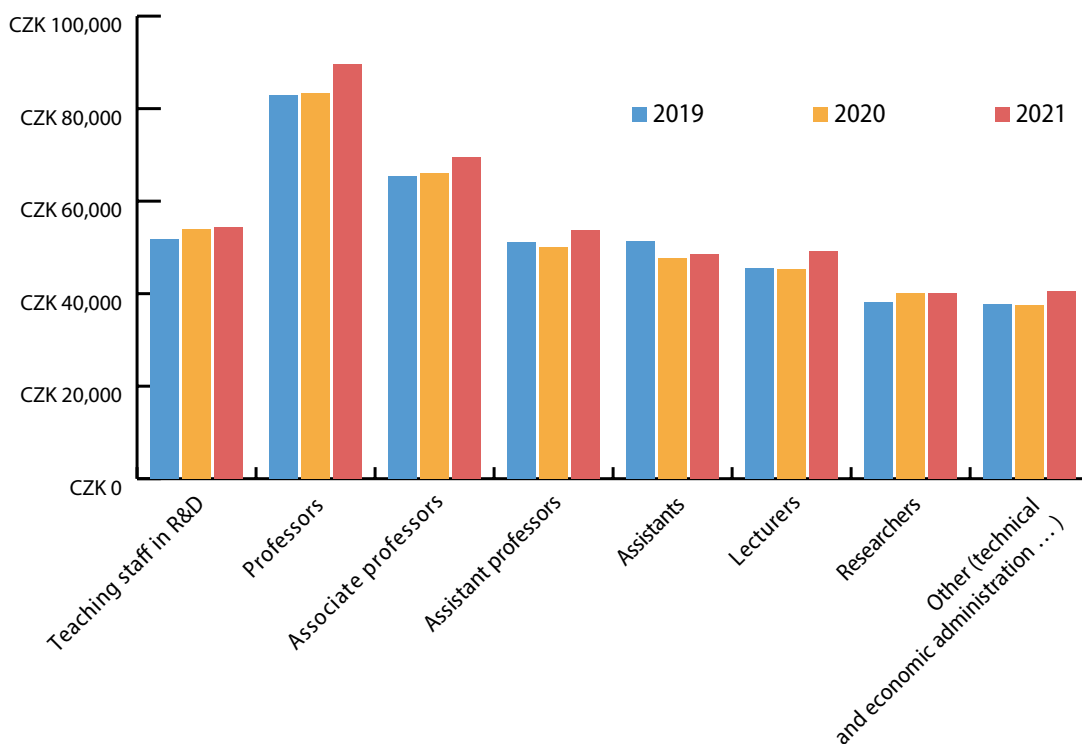
Profession	2019 (in CZK)	2020 (in CZK)	2021 (in CZK)	Difference 2021/2020 in %
Teaching staff in R&D	52,484	53,756	53,593	-0.3
Professors	91,530	90,514	96,419	6.5
Associate professors	71,526	72,182	75,504	4.6
Assistant professors	53,743	52,099	55,136	5.8
Assistants	56,763	50,701	49,480	-2.4
Lecturers	46,907	45,995	49,381	7.4
Scientific workers	38,023	41,180	41,595	1
Other (technical and economic support, medical personnel)	40,283	38,719	41,775	7.9

Comparison of total average monthly salaries in CZK (excluding other personnel costs) by profession

Profession	2019 (in CZK)	2020 (in CZK)	2021 (in CZK)	Difference 2021/2020 in %
Teaching staff in R&D	51,732	54,029	54,373	0.6
Professors	82,831	83,444	CZK 89,578	7.4
Associate professors	65,289	66,106	69,551	5.2
Assistant professors	51,085	49,970	53,778	7.6

Profession	2019 (in CZK)	2020 (in CZK)	2021 (in CZK)	Difference 2021/2020 in %
Assistants	51,300	47,646	48,602	2
Lecturers	45,523	45,234	CZK 49,080	8.5
Scientific workers	38,114	40,002	40,089	0.2
Other (technical and economic workers, medical personnel)	37,756	37,471	40,620	8.4

Development of wages



RECONSTRUCTION, MODERNISATION, REPAIRS

On the basis of the approved financial plan for 2021, total investment funds in the amount of CZK 14,053 thousand were used for construction projects based on the Faculty's requirements (of which machinery and equipment cost CZK 5,694 thousand). A total of CZK 48,380 thousand of investment funds was drawn from other sources (of which CZK 35,645 thousand were spent on machinery and equipment). Total operating funds allocated for construction repairs and small assets were drawn in the amount of CZK 34,300 thousand.

From own funds, the First Faculty of Medicine in 2021 implemented investment actions aimed at improving the conditions in student teaching, modernisation of working facilities for staff and, last but not least, ensuring health and safety at work. The total cost of construction investment projects from the Reconstruction and Modernisation Fund was CZK 8,359 thousand. The cost of investment projects funded from other sources amounted to CZK 12,735 thousand. Total cost of construction repairs and acquisition of small assets from the Fund amounted to CZK 18,919 thousand. The total amount drawn from the Ministry of Education, Youth and Sports subsidy for investment projects, construction repairs, and acquisition of small assets was CZK 28,116 thousand.

In the current year, the preparation of projects planned as part of the first or second call of the development of material and technical base of universities, programme No. 133240, had continued. These projects will be partly financed via both investment and non-investment funds from the state subsidy provided by the Ministry of Education, Youth and Sports. In 2021, the preparation of these projects was financed solely from the Fund in accordance with the assumption of participation share of the First Faculty of Medicine (own funds) in these projects. The following projects are also being prepared in terms of acquisition and approval by the Ministry of Education, Youth and Sports.

The Charles University – First Faculty of Medicine – Construction Adaptations at the Institute of Immunology and Microbiology, Studničkova 7, construction project continued by preparing project documentation for the building permit. The documentation was submitted in January 2021. The project activities were carried out in consultation with the relevant authorities in the area of the heritage protection and historic preservation, public health, and other bodies. Subsequently, engineering activities were carried out to obtain a building permit, which was obtained in November 2021. The prepared project documentation will serve as the basis for detailed project documentation, which was initiated in accordance with the contract for work.

The Charles University – First Faculty of Medicine – Revitalisation of the Building Envelope, Albertov 4, construction project continued with the preparation of tender documentation for a public commission for construction contractor. After its approval by the Ministry of Education, Youth and Sports, the tender was launched in September 2021. Following the submission of bids, evaluation of the bids took place.

For the Charles University – First Faculty of Medicine – Reconstruction of Gas Boiler Rooms and Measuring and Regulation System in Albertov 4 and U Nemocnice 3 Buildings project, the selection of contractor was carried out in 2021 via a public commission with selection decision taken in May 2021. After approval by the Ministry of Education, Youth and Sports, a contract for work with an expected implementation date of summer 2022 was signed with the contractor.

Tender documentation for a public commission for the Charles University – First Faculty of Medicine – Installation of Ventilation and an Air-Conditioning System, Studničkova 2, project was prepared and approved by the Ministry of Education, Youth and Sports in 2021. It was tendered in November 2021 with expected implementation period of May–September 2022.

In the course of 2021, the processing of detailed design documentation for the Charles University – First Faculty of Medicine – Loft Extension, U Nemocnice 5, project continued after a building permit, effective as of January 2021, had been granted. Following its submission, tender documentation for the public commission for the contractor was prepared and sent to the Ministry of Education, Youth and Science for approval (February 2022).

Preparation of the Charles University – First Faculty of Medicine – Centre for Medical Simulation and Experimental Medicine, Albertov 5, project continued in 2021 with engineering activities for the issuance of a zoning permit. After a complicated approval process, which included an appeal procedure at the Prague City Council, a permit was granted in December 2021 (in force from 13 January 2022). The project will continue with a preparation of tender documentation and selection of a project planner for subsequent stages of the implementation plan.

Of the investment-type building revaluating projects in the preparation phase, we should mention the loft extension in the Albertov 7 building, for which project documentation for a building permit had been prepared (submitted in January 2022). Among construction realisations of investment nature, we can mention an installation of a stand-by power supply including construction works in the courtyard of the U Nemocnice 5 building, an installation of glass partitions for individual dental departments in the dentistry teaching halls in Kateřinská 32 building, acquisition of equipment for a gym in the U Nemocnice 3 building, and construction adaptations for the robotic cryobank in the Studničkova 2 building. Reconstruction of teaching spaces in the Purkyně Institute building continued in the facilities of the Institute of Pharmacology, Institute of Histology, and Institute of Biology and Medical Genetics.

In addition to ongoing repairs and maintenance of construction components and structures (painting repairs, replacement of floorings, and renovation of parquet floors by sanding and varnishing, renovation of other floors, repairs of window and door coatings), we should note the replacement of obsolete components in gas boiler rooms and the repair of an external elevator shaft in the Department of Rehabilitation Medicine building.

Financing from the Asset Development Fund (ADF)

Investments (in mill. CZK)	Building tech. revaluation		Stroje a zařízení		Total
	ADF	Subsidy	ADF	Subsidy	
Adaptation of teaching halls, Kateřinská 32	2.868				2.868
Stand-by power supply incl. construction works, U Nemocnice 5	1.442		5.546		6.988
Loft extension, U Nemocnice 5	1.029				1.029
Construction adaptations, Institute of Immunology and Microbiology, Studničkova 7	2.362				2.362
Loft extension, Albertov 7	0.399				0.399
Building technical revaluation – minor constructions	0.259				0.259
Machinery and equipment (aside from certificates of technical suitability)	0		0.148		0.148
Total	8.359	0	5.694	0	14.053

Financing from other sources

Investments (in mill. CZK)	Building tech. revaluation		Stroje a zařízení		Total
	Fund	Subsidy	Fund of Development of Investment Assets	Subsidy	
New infrastructure, U Nemocnice 3		1.571		0.730	2.301
Construction adaptations for steam sterilizer (sterivap), U Nemocnice 5		0.336			0.336
Construction adaptations incl. furnishing, U Nemocnice 5		1.022		0.208	1.23
Adaptation of basement energy distribution, U Nemocnice 5		1.582			1.582
Construction adaptations for the robotic cryobank, Studničkova 2		0.56		0.166	0.726
Construction adaptations incl. electro installation, Institute of Histology, Albertov 4		0.78			0.78
Construction adaptations, Institute of Pharmacology, Albertov 4		0.903			0.903
Construction adaptations place no.1098–1103, Albertov 4		0.818		0.09	0.908
Adaptation of the former ceramic workshop, Albertov 7		0.441			0.441
Building technical revaluation – minor constructions		4.441			4.441
Passat car				0.602	0.602
Delivery of data projector – 2nd Department of Medicine, First Faculty of Medicine, Charles University, and General University Hospital				0.325	0.325
Gym equipment– training machines, U Nemocnice 3				2.264	2.264
Machinery and equipment – other minor investments				2.472	2.472
Machinery and equipment – from grants and other projects (aside from certificates of technical suitability)		0.281		28.788	29.069
Total	0.000	12.735	0	35.645	48.380

Non-investments (in mill. CZK)	Construction repairs		Minor assets		Total
	Operation	Subsidy	Operation	Subsidy	
Set of batteries incl. UPS replacement, Kateřinská 32	0.245				0.245
Repair of elevator shaft, Albertov 7	0.225				0.225
Repair of gas boiler, U Nemocnice 4	0.138				0.138
Refurbishment of coffered door, U Nemocnice 5	0.177				0.177
Construction repair of workrooms, Albertov 4	0.21				0.21
Construction repair – chemical treatment, Albertov 4	0.114				0.114
Other minor repairs	8.84				8.84

Laboratory furniture, Albertov 5			0.27		0.27
Gym equipment – training machines, U Nemocnice 3			0.152		0.152
New wi-fi infrastructure, U Nemocnice 3			0.111		0.111
Construction repairs – from grants and other projects (aside from certificates of technical suitability)	0.708	0.07	7.729	15.311	23.818
Total	10.657	0.07	8.262	15.311	34.3

CONCLUSION

I evaluate the result of the Faculty's economy management positively. The expense/revenue ratio was balanced and the Faculty thus succeeded in creating a financial reserve that will be most certainly of use in covering the expected increased expenses for energies and the like.

ZH BOHEMIA spol. s r. o., Pražská 469/22a, 460 01 Liberec II Nové Město

Audit company, Certificate number 091

Company is registered by the Trade Register of Regional Court in Ústí nad Labem, section C, Number 4372 from 9.2.1993

INDEPENDENT AUDITOR'S REPORT

of

CHARLES UNIVERSITY – FIRST FACULTY OF MEDICINE,

registered address: Ovocný trh 3/5, Prague 1, postcode 116 36

Opinion

We have audited the accompanying financial statements of CHARLES UNIVERSITY – FIRST FACULTY OF MEDICINE (hereinafter also the “FIRST FACULTY OF MEDICINE”) prepared in accordance with accounting principles generally accepted in the Czech Republic, which comprise the UK Intercompany balance sheet as of 31 December 2021, and the UK Intercompany income statement for the year then ended.

In our opinion, the financial statements give a true and fair view of the financial position of CHARLES UNIVERSITY – FIRST FACULTY OF MEDICINE as at 31 December 2021 in accordance with accounting principles generally accepted in the Czech Republic.

Basis for Opinion

We conducted our audit in accordance with the Act on Auditors and Auditing Standards of the Chamber of Auditors of the Czech Republic, which are International Standards on Auditing (ISAs), as amended by the related application clauses. Our responsibilities under this law and regulation are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the FIRST FACULTY OF MEDICINE in accordance with the Act on Auditors and the Code of Ethics adopted by the Chamber of Auditors of the Czech Republic and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Other Information in the Annual Report

In compliance with Section 2(b) of the Act on Auditors, the other information comprises the information included in the Annual Report other than the financial statements and auditor's report thereon. The Statutory Body of the FIRST FACULTY OF MEDICINE is responsible for the other information.

Our opinion on the financial statements does not cover the other information. In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. In addition, we assess whether the other information has been prepared, in all material respects, in accordance with applicable law or regulation, in particular, whether the other information complies with law or regulation in terms of formal requirements and procedure for preparing the other information in the context of materiality, i.e. whether any

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non-compliance with these requirements could influence judgments made on the basis of the other information.

Based on the procedures performed, to the extent we are able to assess it, we report that:

- The other information describing the facts that are also presented in the financial statements is, in all material respects, consistent with the financial statements; and
- The other information is prepared in compliance with applicable law or regulation.

In addition, our responsibility is to report, based on the knowledge and understanding of the FIRST FACULTY OF MEDICINE obtained in the audit, on whether the other information contains any material misstatement of fact. Based on the procedures we have performed on the other information obtained, we have not identified any material misstatement of fact.

Responsibilities of the FIRST FACULTY OF MEDICINE's Statutory Body for the Financial Statements

The Statutory Body is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the Czech Republic and for such internal control as the Executive Director determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the Executive Director is responsible for assessing the FIRST FACULTY OF MEDICINE's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the Executive Director either intends to liquidate the FIRST FACULTY OF MEDICINE or to cease operations, or has no realistic alternative but to do so.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with the above mentioned laws and regulations will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with the above law or regulation, we exercise professional judgment and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion.

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The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.

- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the FIRST FACULTY OF MEDICINE's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates.
- Conclude on the appropriateness of the Statutory Body use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the FIRST FACULTY OF MEDICINE's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to this uncertainty and to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the FIRST FACULTY OF MEDICINE to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with the Statutory Body regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Prague, 06. 06. 2022



ZH BOHEMIA, spol. s r. o.
Pražská 469/22a
Liberec II – Nové Město
Licence number of the audit firm 091

Jan Jindřich
Responsible auditor for the audit
Jan Jindřich
Statutory auditor
Licence number of the auditor 1133

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UNION OF CZECH MEDICAL STUDENTS (SMČ)

Chairwoman of executive: Alisa Shvets

Vice-chairman: Erick Camargo Konečný

Members of the board: Jakub Adamčík, Anna Alekseenko, Romana Baláková, Karolína Hanzelová, Mirka Machalová, Petra Poláčková, Anastasia Skurtu, Lea Soperová

ABOUT US

The Union of Czech Medical Students is the successor a former Union that was founded in 1863 as a proud guild organisation of students of the Medical Faculty in Prague and later of some other medical faculties as well. In 1999, the Union of Czech Medical Students was registered by the Ministry of Interior as a non-profit organisation with valid statutes and an internal structure which represent the interests of students of medical schools, especially those of the First Faculty of Medicine, Charles University.

ORGANISATION

Any student of a medical school in the Czech Republic can become join the Union of Czech Medical Students. The supreme body of the Union is the General Assembly, which elects the Executive and possibly other bodies.

MEMBERSHIP

Anyone studying at any medical faculty can become a member of the Union. Membership fee is a one-time contribution of CZK 200. Members can use the facilities of the Union clubhouse and enjoy various other membership benefits. In 2021, we saw a relatively large increase in new members as compared to previous years: we have over 400 new members. We assume that the main reason for this was high attendance at our action-packed familiarisation courses in Dobronice and a presentation of the Union to this year's second-year students who did not have much opportunity to attend our activities in the previous year. We were also active in promoting our activities on social networks, esp. Facebook and Instagram. We are happy that there are still students at our Faculty who want to do something on top of what is required in their leisure time and are actively involved.

THE UNION'S PREMISES IN THE FAUST HOUSE

Our office is located on the second floor of the Faust House. It includes a computer room, a reading room, and a club room with a library. Union members can use the premises to study. Apart from book loans, we offer students the possibility of printing their documents and a bookbinding service. But above all, we hope the Union headquarters offer students a pleasant place to relax, a space where they can spend their leisure time with friends. In the past year, there were some minor changes in the Union's premises. Using membership fees, we purchased a new flipchart, a set of dishware, a laminating machine, and an electric grill, which we will use during our events.

ACTIVITIES OF THE UNION

In the past academic year, we tried to gradually return to our usual set of events. In the fall, we held several workshops at the Academic Club of the First Faculty of Medicine, Charles University, including a charity Christmas baking event along with a 'clothes swap' for the non-profit Naděje [Hope] organisation. At the same time, we successfully managed to organise a St. Nicholas Day party for children in hospitals.

In the future, we would like to continue our collaboration with various medically oriented organisations and organise with them further workshops while fully reviving our traditional events. We have agreed on a long-term cooperation with the Young Doctors Section of the Czech Medical Chamber to hold workshops for graduates.

PROJECTS OF THE UNION

Open Day – Every year, we take part in organising an Open Day, where we present the Union and our activities to prospective students of the Faculty. Our official programme is followed by an accompanying programme at our premises, where we are happy to answer any questions of the prospective students about the studies.

Medics' Prom Ball – As every year, the Union of Czech Medical Students assists in organising the Medics' Prom Ball of the First Faculty of Medicine. Traditionally, we sell student tickets for the ball. We also have the pleasure of distributing complimentary tickets to the heads of our Faculty's institutes.

Magical rave-up – It has become our special tradition to throw this medics' party every semester in the El Magico Club at the halls of residence in Prague's South Town. This event gives medics an opportunity to meet with their colleagues not only at the Faculty's premises but also outside studies, in a relaxed atmosphere.

6plus1 Medic Party – This event where prospective alumni of the Faculty meet the freshmen is traditionally held in the PM Club in Trojická Street. Another tradition is that it is attended by the Dean, who symbolically 'knights' the new medical students using a femur rather than a sword in his hand. This event features numerous competitions, including for instance a race to be the fastest to saw a coconut 'skull' in two halves.

Picnic – A traditional event held in the gardens of the Department of Psychiatry and Neurology. Every year, we invite students to come and relax at a picnic where they can buy something to eat and drink – such as the Director's Stew, which we receive each year as a gift from the Director of General University Hospital, or a ham donated by the Dean. In 2019, the event was combined with the Letní dům [Summer House] organisation. All proceeds went to this organisation whose members participated in the picnic with their charity clothing bazaar. The event was a great success and raised nearly CZK 10,000 for the Summer House.

Jednička na startu [Number One Starting] – Every year, we also help with the Number One Starting! This time, part of the festivity was the launch of a new fundraising calendar, in which our Faculty's student societies participated and whose sales is subsequently organised by various students' societies. The traditional barbecue hosted by the Union of Czech Medical Students was an event to be remembered.

St. Nicholas Eve – Every year on St. Nicholas Eve, we visit children who must spend that day in hospital. In the traditional masks of the Devil, Angel, and St. Nicholas, we give them some fun toys and small treats as a reward for a nice verse or song they present. We come not only to our 'home', the General University Hospital, but also to some of the more distant hospitals: Thomayer University Hospital in Krč, Bulovka University Hospital, University Hospital Královské Vinohrady, the Department of Geriatrics, First Faculty of Medicine, Charles University, and General University Hospital in Prague in Londýnská Street. Presents that could not be distributed during the event were (just as any surplus in the years before) sent to children's homes around Prague.

Medics' Union Bowling – This bowling tournament of the Union of Czech Medical Students has become a tradition and is very popular with students.

Medics' Union Pubquiz – This contest in general knowledge in the style of a pub quiz takes place twice a year. Students can test their knowledge and competing with their fellow students across categories.

Badminton tournament – In cooperation with the Institute of Physical Education, First Faculty of Medicine, Charles University, we organise a badminton tournament.

SMČ – ERASMUS STUDENTS' ORGANISATION (ESO)

For a number of years, we have been organising a 'buddy programme' for incoming Erasmus students. Within this scheme, international students can contact their colleagues who study in Czech: they can then help them, especially at the beginning of their stay in the Czech Republic, both in getting their bearings around the Faculty and in dealing with some official matters and other things necessary for their life in Prague. Traditionally, we give an introduction party for Erasmus students, where all students from abroad get a chance to meet. And of course, there are some trips to learn more about the country: excursions to beautiful Czech towns and castles, such as Kutná Hora, Český Krumlov, Karlštejn, and Karlovy Vary, but also cultural events, because we are trying to present not only Czech arts (National Theatre) but also local culture and history (the Senate of the Czech Republic, the National Museum).

Every year, the Union helps with technical support in the process of evaluation of results from a competition for the Erasmus+ programme exchange as well as in the allocation of particular placements, which takes place in the lecture.

AIMS FOR THE FUTURE:

- To carry on with our work and deepen the well-established cooperation with students and the Faculty.
- To organise traditional events and try to create new ones.
- To deepen our cooperation with other organisations at the First Faculty of Medicine, Charles University.
- To develop interfaculty cooperation.

*On behalf of the Union of Czech Medical Students,
Alisa Shvets, Chairwoman*

IFMSA CZ AT THE FIRST FACULTY OF MEDICINE, CHARLES UNIVERSITY

For the International Federation of Medical Students' Associations, First Faculty of Medicine, Charles University, the academic year 2021/2022 seems to be characterised by a recovery from the pandemic. After some initial restrictions, we focused on renewal of our activities. We started re-launching our previously traditional projects and focused on innovating them: our goal is to make them more attractive and beneficial for students of the First Faculty of Medicine. We are also further developing our cooperation with other organisations, with focus on working with students of the English parallel.

The two other IFMSA branches in Prague are also an asset, and we are expanding our cooperation with them, thus deepening interfaculty relations beyond the University.

MANAGEMENT OF THE BRANCH

Local President – Petr Lapka
 Local Coordinator for Public Relations – Katarína Píptová
 Local Coordinator for Public Health – Klára Rončková
 Local Coordinator for Medical Education – Kateřina Kunclová
 Local Coordinator for Healthy Reproduction and HIV/AIDS Prevention – Concetta Narretti
 Local Coordinators for Clinical Placements – Marek Klembara, Dan Krejbich
 Local Coordinator for Research Placements – Mikuláš Hampl
 Local Coordinator for Human Rights and Peace – Adéla Pokorná

STAYS ABROAD

Clinical placements

Given the global recovery in tourism, we are confident that this year's allotted placements abroad will go ahead as usual. Our branch managed to get a higher quota for our students and we begin sending a higher number of students abroad starting this year.

In the academic year 2021/2022, students of the First Medical Faculty have been allotted a placement to 90 internships abroad in various countries. We have contracts with 104 countries across the world, including Switzerland, Spain, and Germany, but also more exotic destinations, such as Peru, Taiwan, and others.

This year, the First Faculty of Medicine, Charles University, will enrol and house approximately the same number of international students in our clinics. This will be primarily during the summer months, but the first students will arrive in April.

Research placements

In the academic year 2021/2022, research placements went ahead as usual. Similarly, we provide the opportunity to travel to over 90 countries across the world. During the summer months, we enrol foreign students at the institutes of Genetics, Biochemistry, and Pathophysiology.

SECTION OF MEDICAL EDUCATION

The Surgical Suturing project, suspended last year, was relaunched. In cooperation with the Institute of Physiology, First Faculty of Medicine, Charles University, we began working on a new optional subject, and would like to thus extend our cooperation with the Faculty and further develop this highly popular project.

We further focus on podcasts in the Learn About Your Specialty project, which is meant to present various branches of medicine through interviews with doctors, and on podcasts in the Medicafé project.

We expand the Histology and Physiology Tutoring projects, trying to staff them permanently with experienced tutors.

SECTION OF HEALTHY REPRODUCTION

The Anti-HIV Tram project, prepared in cooperation with Dům světla [House of Light], was postponed until next year. The Movember project had once again run a social media campaign. In line with loosening of the Covid-19 measures, we again plan to organise education on the prevention of sexually transmitted diseases at elementary and secondary schools.

We work on new educative materials and on training of new lecturers. We have acquired breast and testicle models from our own sources.

Further, we expand our activity regarding prevention of cervical carcinoma, cancer of the testicles, and breast cancer. In this section, we are trying to create English versions of the projects, which will address anglophone elementary and secondary schools in Prague.

PUBLIC HEALTH SECTION

This year, we have re-launched our Teddy-Bear Hospital, where volunteers visit kindergartens and to help children overcome the 'white-coat syndrome'. This project takes place approximately every two weeks. We have also re-launched our Pro-Life (first aid) project.

The World Health Day project will take place in a hybrid in-person/online form.

SECTION OF HUMAN RIGHTS AND PEACE

In this section, we try to introduce students of our Faculty to the subject of peace and human rights protection and motivate them to become actively involved. During the winter semester, the First Medical Faculty hosted a World Human Rights Day lecture in cooperation with the Transparent non-profit organisation, where speakers discussed how doctors should approach trans and nonbinary patients.

We also took part in a letter-writing marathon for Amnesty International. Students had the opportunity to come and write a letter to various world leaders, asking for the release of wrongfully convicted prisoners. We are also dealing with mental health issues, which is why we are going to hold a lecture on people living with anorexia nervosa. In addition, we plan to organise a collection of children's books which will subsequently be distributed to hospitals and paediatricians' waiting rooms as part of the Every Czech Reads to Children project. We are planning a 'Right to Live' workshop: a weekend seminar where invited experts will address the issue of domestic violence with the participants (how to recognise it, how to communicate with the victims, and how to help them).

In the future, we want to organise an environment-oriented event. On top of that, we are aware of what is happening in Ukraine and in case of a requirement for blood donations from the Red Cross, we and the International Federation of Medical Students' Associations are ready to call volunteers and help. We are trying to further expand our section and to think of new projects so that students of our Faculty can participate in creating a just and peaceful world.

*On behalf of IFMSA, First Medical Faculty, Charles University,
Petr Lapka, Local President*

LF1 MEDSOC

- LF1 MEDSOC is a non-profit association representing the students of the English Parallel of the First Faculty of Medicine, Charles University.
- LF1 MEDSOC Board members are seven students, who are elected on an annual basis. The Board consists of the President, the Head of Academic Affairs, the Head of Dentistry, the Head of Student Support, the Head of Activities, the Head of Public Relations, and the Treasurer.
- All full-time and part-time students at the English Parallel of the First Faculty of Medicine, Charles University, are considered 'members' of the LF1 MEDSOC.

ACADEMIC AFFAIRS

For the All Years

- o Introductory seminars for all six years
 - Hosted by students of the higher year and by alumni; each year was briefed on what to expect in the forthcoming year
- o Second-hand book sale
 - Organised a drop-off from higher year students
 - Produced an inventory of textbooks
 - Donated old and outdated textbooks to the Library of the First Medical Faculty
- o Study Harder, Not Smarter

- Hosted annually by our own Mr. Christian Entenmann
- Focuses on effective study techniques rather than on where and what to study
- o Situational Judgment Workshop
 - Partnered with doctors from University College London
 - Hosted by Dr. Kousteni
 - Introduction to SJT and its relevance to medicine and dentistry
 - Round-robin practice scenarios
- o Breast Cancer Awareness Event
 - Organised a charity fair to educate participants on breast cancer
 - Partnered with Loono and organised a booth with practice models on how to conduct self-examinations
 - Hosted a minilecture on Radiology and Breast Cancer with Dr. Steyerová
 - Conducted an Art Class with the Art Club of the First Medical Faculty
- o Hosted a 'Plan with Me' session
 - The life of a student means juggling a lot of plates; we created this session to help students optimise their time and resources

FOR THE PRE-CLINICAL YEARS

- Winter Dissection Workshop
- Physiology Workshop
- General Histology Workshop
- Biophysics Seminar
- Histology Slide Webinar
- Neuroanatomy Workshop
- Summer Anatomy Dissection Workshop
- "How to Ace Your Finals" Webinars (in progress)
- Curated Revision-Aid Booklets for all workshops conducted

FOR THE CLINICAL YEARS

- o Clinical Lecture Series
 - Hosted a three-day interactive series with Dr. Dimitropoulos, a consultant in Endocrinology in the United Kingdom, and a fond alumnus of the First Medical Faculty
 - The lectures were on:
 - Dealing with clinical emergencies as a junior doctor
 - Common clinical presentations
 - Interview skills workshop
 - Mastering the abcde assessment
 - Acute coronary syndromes and arrhythmias
- o CV Clinic
 - Organised one-on-one personalised review and feedback sessions with Dr. Dimitropoulos
 - Students had the opportunity to receive feedback and advice on how to deliver their portfolios as they enter the job hunting phase
- o Curated a 'Journey to the USA' series of webinars including:
 - Getting 'Core and Elective US Rotations' in partnership with Mr. Jose Foppiani and AMO
 - 'Acing the USMLE' hosted by Sheikh Abdulla, Stefani Kalli, and Benjamin Spanyol
 - 'Residency in the United States 101' with Dr Madina
- o Curated a 'Journey to the UK' series of webinars including:
 - 'Applying for Jobs in the NHS' with Dr. Sana Ahmed
 - 'Pathway to Clinical Electives' with Medics International UK
 - 'FY2 Seminar' hosted by Dr. Anna Onderková
- o Partnered with IFMSA and the First Medical Faculty's Surgical Society for Suturing Workshops
- o Partnered with alumni for the Annual International Finals Revision Day Course
- o Physical examination workshops
 - All students who participated were taught a full body examination
 - Each student got to practise with live participants
 - Demonstrated to students by Dr. Zakaianov
- o Cannulation workshop
 - Focused on safe and precise cannulation technique

- All participating students were allowed to practice multiple times on live participants
- Demonstrated to students by Nurse Nakladl
- Hosted a 'Job Application Seminar' in partnership with Great Western Hospital NHS Foundation Trust
 - Arranged a private session for sixth-year students with the Great Western Hospital NHS Foundation Trust Recruiter
 - Arranged a 'Foundation Year' doctor, Dr. Nell Cuthbert, who spoke about his life in Swindon and transitioning from medical school to work
 - Facilitated the job application process and made it available for all sixth-year students interested in applying to the UK

FOR RESEARCHERS

- Created a team dedicated to Medical Academia
- Hosted an 'Original Scientific Article vs. Review' seminar
- Hosted a series of the 'Anatomy of a Paper' seminars
- Hosted a 'Summary Writing of a Paper' seminar
- Hosted a 'How to Write a Readers' Digest' seminar
- Hosted a 'How to Read a Paper' seminar
- Hosted a 'Christmas Jeopardy Quiz Night'
- Demoed a Research Project Portal for students of the First Medical Faculty
- Publicised Conference Opportunities for students of the First Medical Faculty

On behalf of the LF1 MEDSOC Board 2021/2022,

Hamza Shabbir, Shania Fernandes, Manasvi Agrawal, Mirka Verbat, Maria Vyrides, Mahta Alavi, Govind Rajesh

SPOT PRAGUE – ASSOCIATION OF OCCUPATIONAL THERAPY STUDENTS

SPOT Prague (Student Platform Occupational Therapy) is a voluntary association of occupational therapy students at the First Faculty of Medicine, Charles University, which was established in February 2019. SPOT Prague is one of the so-called Mini SPOTs, i.e., an association of occupational therapy students at one faculty, and is part of SPOT Europe (Student Platform Occupational Therapy Europe). We closely cooperate with SPOT Europe as well as with other Mini SPOTs (student associations of particular European occupational therapy schools).

The main objective of our organisation is to enhance the quality of study of Occupational Therapy, to support students' needs and interests, and to promote of general awareness of Occupational Therapy as a field. The association also aims to promote maximal internationalisation of study. It tries to support interdisciplinary cooperation of students and put them in touch with their professional organisations. Since the very beginning, our members have participated in educational, cultural, and charity events.

At the moment, we have 25 members from all years of study (first, second, and third-year students of the bachelor programme, and first and second-year students of the master's programme) as well as one representative of the teachers.

PAST EVENTS:

- Open Day of the First Faculty of Medicine, Charles University, 9 January 2021 (online)
- Online meeting with SPOT Olomouc, 10 February 2021
- ErgoHost
 - 3rd ErgoHost, 18 March 2021 – guests: Deborah Murphy and Marina Georgiadou, presenting a lecture 'Occupational Therapy in Prison – A Tale of Two Countries'. This was the first online ErgoHost: attended by 167 people from the Czech Republic and other countries (e.g., USA, Great Britain, Scotland, Austria, France, Portugal, Cyprus, Turkey, and India)
 - 4th ErgoHost, 29 November 2021 – guests: Mgr. Jana Pluhařiková Pomajzlová and Bc. Kamil Rain, presenting a lecture 'What Really Matters? A Meeting about How to Take Care of Your Own Wellbeing from the Viewpoint of an Occupational Therapist and a Peer Consultant'. The second online ErgoHost was attended by 45 people from the Czech Republic and other countries (e.g., Slovakia, Great Britain, Netherlands, Austria, Germany, and Portugal)
- 2nd COTEC-ENOTHE (Council of Occupational Therapists for the European Countries – European Network of Occupational Therapy in Higher Education) Congress, 15–18 September 2021
- World Occupational Therapy Day, 27 October 2021
- Event Na Karlovu, 13 November 2021

- Informal meeting of students of Occupational Therapy of the Department of Rehabilitation Medicine, 25 November 2021
- Charity event 'A Christmas Meeting Full of Hope', 13 December 2021
 - The total collected amount: CZK 16,054
- The second teambuilding in a tearoom and at laser game, 13 December 2021
- Regular monthly meetings of the Association – in person or online via the Zoom
- Regular posts on the Association's social networks (Facebook, Instagram, Twitter)
- Articles regularly published in the Jednička bulletin
 - 'An occupational therapy student coordinates help for single parents' (December 2020 – February 2021)
 - 'Occupational therapy in prison – A tale of two countries' (March–April 2021)
 - 'Erasmus in the Covid era, or two occupational therapy students in Belgium for a few months' (March–April 2021)
 - 'The International Buddy Programme – sharing experience from the field of Occupational Therapy' (May–June 2021)
 - 'From the topical activities of the Association of Occupational Therapy Students' (July–September 2021)
 - 'We celebrated the World Occupational Therapy Day' (October–November 2021)
 - 'How to care for your mental wellbeing' (December 2021 – February 2022)
- Posts on the SPORTEurope social networks
- International cooperation
 - Participation in the SPORTEurope webinar – guest: Frank Kronenberg (occupational therapist), 27 January 2021
 - Participation in the 1st Town Hall Meeting (organised by SPORTEurope), 17 February 2021
 - Online presentation SPOT Prague activities at the Vienna Coffee event, 28 June 2021
 - Planning and organising student workshops jointly with SPORTEurope within the framework of the 2nd COTEC–ENOTHE Congress, 15–18 September 2021
 - Participation in the Student Session – online meeting with the SPORTEurope representatives, 1 December 2021
 - Participation in the 1st Mini SPOT Gathering – sharing experience, advice, and tips on establishing a Mini SPOT with Mini SPOTs from other countries, 13 March 2022
 - Regular communication with SPORTEurope – responding to challenges, sharing contributions
 - Creating a presentation that provides information about Prague, the First Faculty of Medicine, Charles University, and SPOT Prague for Mini SPOT ESSLei (Association of Occupational Therapy Students from Portugal)
 - Regular reviews and translations of English texts.

CURRENTLY IN THE WORKS

- The SPOT Prague project recommends
 - Recommendations of interesting places by the Association members, not only for students of our Faculty; the recommendations include information about barrier-free access
 - In view of the current epidemiologic situation due to the Covid-19 pandemics, the project added a film section: recommendation of films focusing on problems of the disabled (spinal problems, sensory disabilities, neurologic diseases, mental impairment, etc.)
- Project of the Occupational Balance international group
 - Introducing the concept of 'occupational balance' to students of Occupational Therapy students and others via posts on social networks
 - Producing a questionnaire to find out more about awareness of this concept and the perception of its implementation in Occupational Therapy and during studies
 - Realisation of an online webinar in English, with a brief theoretical introduction and subsequent discussion on this subject with students from other Mini SPOTs
- Project E-sport – prevention of health problems resulting from intensive PC and mobile gaming
 - Cooperation with the Inside Games e-sport team
 - Promotion of the field of Occupational Therapy among PC and mobile gamers, education of gamers in the prevention of health problems resulting from intensive gaming, recommendation of appropriate adjustments of PC working station, recommendation of appropriate exercises and compensation aids, all in a fun and interactive form
 - Filming video spots, episodes – tentatively scheduled for 29 April–1 May 2022
 - Offer to cooperate in the development of electronic materials to promote ergonomics in e-sports
 - Sharing via social networks of the Association and the Inside Games team
- Creation of
 - Colouring books for children – presenting the profession of occupational therapist and the types of disabilities in a form comprehensible for children; the first three books have been already printed

- Educational leaflets
- Video manuals explaining the use of compensation aids
- Contributions to the Jednička bulletin
 - Cooperation with the communication department and the marketing department of the First Faculty of Medicine, Charles University
 - Cooperation with SPOT Olomouc

MEMBERSHIP

Anyone studying in the Bachelor or follow-up Master study programme of Occupational Therapy at the First Faculty of Medicine, Charles University, can become a member of the Association. We will be happy to welcome all active students willing to take part in the development of the field, promotion of occupational therapy, and its internationalisation.

KONTAKTY:

- Facebook: SPOT Prague
- Instagram: spotprague
- Twitter: SPOT PRAGUE – Spolek studentů ergoterapie
- email: spotprague@gmail.com

SANT – STUDENT ASSOCIATION OF NUTRITIONAL THERAPY

We are the Student Association of Nutritional Therapy (SANT), founded at Masaryk University in Brno in 2016. In 2018, we expanded to Prague – first, to the First Faculty of Medicine, Charles University, and at the turn of 2021 also to the Third Faculty of Medicine of the Charles University, the Faculty of Medicine of Olomouc University, and the Faculty of Health and Social Sciences of the University of South Bohemia in České Budějovice. The Association had joined the national association ČANT (Czech Association of Nutritional Therapy).

OUR OBJECTIVES

Our goal is to bring together volunteers from among the students of Nutritional Therapy and Nutritional Specialist. Students who become involved will have the opportunity to gain practical experience already during their studies. They will be able to practice communication with prospective clients and learn how to efficiently discuss and defend their claims. We also aim to assist in interdisciplinary communication and in communication with the academic community.

We want to improve the quality of our profession and spread the awareness of the field among the general public. We want to demonstrate who an occupational therapist is, because nutrition influences everyone's health. At the moment, though, we are witnessing the emergence of various professions and organisations that spread groundless or false information about nutrition without proper foundation or understanding, thus helping to promote various 'myths'. In cooperation with other sciences, professions, organisations, schools, and others, we want to improve the health of all people.

EVENTS ORGANISED ON 20121

- World Diabetes Day, 16 November 2021

WHAT WE DO AND WHAT WE PLAN TO DO

Our activities are not limited to participation in various events where we offer visitors, for example, a weighing on the InBody scales or assessment of their nutritional state and food intake. We also provide advice in the area of therapeutic nutrition, answer questions, and/or give lectures at these events. Very popular are tastings of meals baked and cooked by us. Also on our own, we organise a NutriCafé, where each time a nutritional therapist gives a lecture on an interesting topic, and not only for health professionals.

MEMBERSHIP

Any student of the bachelor programme in Nutritional Therapy at the First Faculty of Medicine can become a member. We are happy to welcome all volunteers and fans willing to take part in the development of the field, promotion of Nutritional Therapy, and in the variety of events of organise.

Students of other programmes at the Faculty cannot become members but we do welcome offers of other types of cooperation. Some cooperation has already started at the Adi-Nutri chat in 2019, and we often also cooperate with the International Federation of Medical Students' Associations (IFMSA).

KONTAKTY:

- Web: www.cant.cz
- FB: SANT Praha – Studentská asociace nutričních terapeutů v Praze; Studentská asociace nutričních terapeutů
- Instagram: [sant_spolek](https://www.instagram.com/sant_spolek)
- E-mail: President of the Association (Brno): lucie.narozna@gmail.com, info@sant-spolek.cz, Vice-president (Prague – First Faculty of Medicine, Charles University): terka.schybalov@seznam.cz

ASSOCIATION OF STUDENTS OF STOMATOLOGY OF THE CZECH REPUBLIC

The Association of Students of Stomatology of the Czech Republic (SSS ČR) is a voluntary non-profit organisation. The Association is meant for all students of programmes in Dentistry and Stomatology throughout the Czech Republic. The original goal of the organisation when it was founded in 2000 was to help secure placements abroad for the students. Our current aim is to facilitate the students' professional growth, offer them some enrichment of their student life, and help them create a good team of the future generation of dentists in our country.

We are a member of the International Association of Dental Students (IADS), which also acts as an agency organising international exchange for our students and the incoming foreign students. This enables our members to travel for an international stay and the IADS then issues a certificate of practical experience. Within the International Association of Dental Students, the Standing Committee on Research and Education (SCORE) was established in 1993. Its role is to support the development of dental students' clinical, theoretical, and research skills. Our organisation also provides students with a unique chance to participate in real research thanks to international scientific study placements organised under the International Dental Research Program (IDRP). Like the other exchange programmes, the IDRP works under a bilateral agreement. Students are selected for participation by the leading researcher of the relevant project according to their abilities. The management of the whole programme and smooth running of placements is the responsibility of a team of National Scientific Officers and Local Scientific Officers.

The Association of Students of Stomatology of the Czech Republic tries to promote and defend the students' interests among the professional as well as general public. We cooperate with the Czech Dental Chamber. For our members, we organise educational events and make sure that they can try out new materials and/or procedures in practice. Further, we try to secure student discounts on entry to seminars and lectures given by other organisations, such as Prague Dental Days.

HOW WE PRESENT THE ASSOCIATION

Our Association presents itself mainly through its website and social networks. Currently, we are creating a new website for the Association: this will bring a change in the Association colours, logos, and the entire design. Our main area of representation is Instagram, where we have an active national account, as well as our Faculty city account. In the next academic year, we would like to introduce our Association to freshmen already at the familiarisation course in Dobronice, and we would also like to present ourselves in the *Jednička* Faculty bulletin.

OUR ACTIVITIES IN PRAGUE THE ACADEMIC YEAR 2002/2021

- Participation in the General Assembly of all members of the Association of Students of Stomatology of the Czech Republic
- Organisation of webinars, workshops, and lectures for students of stomatology
- Dentists' PubQuiz (7 April 2020)

OUR PLANS FOR THE NEXT ACADEMIC YEAR

- Participation and presentation of the Association at Faculty events (museum night, picnic)
- 3M workshops (so far, we are organising a workshop focused on impressing, but we plan to continue with other workshops next year)
- Participation in the General Assembly in Pilsen in the fall, and organisation of a General Assembly in Prague
- Prevention events (Healthy Tooth in Healthy Prague, World Oral Health Day)
- Recruitment of new students and their active inclusion in the Association
- Organisation of workshops, webinars, and lectures according to students' interest
- Events for students (Dentists' PubQuiz, Dentists' Halving, Dentists' Shindig)



JANUARY

- **PragueOnco**, 20–21 January 2021, online, Department of Oncology, First Faculty of Medicine, Charles University, and General University Hospital
- **16th Šonka Day**, 27 January 2021, Prague, 3rd Third Department of Internal Medicine – Department of Endocrinology and Metabolism, First Faculty of Medicine, Charles University, and General University Hospital
- **Spes contra spem – Seminar of Bioethics and Ethics Teachers**, 27 January 2021, online, Institute for Medical Humanities, First Faculty of Medicine, Charles University
- **18 educational webinars**, Society for Gastrointestinal Oncology, Czech Medical Association of J. E. Purkyně, January–December 2021, online, Department of Internal Medicine, First Faculty of Medicine, Charles University, and Military University Hospital in Prague

FEBRUARY

- **12th Clinical-Anatomical Symposium: Osteoporotic Fractures**, 6 February 2021, Prague – under the auspices of Dean of the First Faculty of Medicine, Charles University, Prof. Martin Vokurka, Department of Orthopedic Surgery, First Faculty of Medicine, Charles University, and the Military University Hospital in Prague

APRIL

- **19th Symposium on Arterial Hypertension**, Current Clinical Trends, 7 April 2021, Prague, 3rd Department of Internal Medicine – Department of Endocrinology and Metabolism, First Faculty of Medicine, Charles University, and General University Hospital

MAY

- **Endobronchial Ultrasonography in Initial Diagnosis and Rebiopsy of Lung Tumours – Endobronchial Palliation – Respiratory Tract Stenting**, 27–28 May 2021, Prague, 1st Department of Tuberculosis and Respiratory Diseases, First Faculty of Medicine, Charles University, and General University Hospital
- **29th Annual Congress of the Czech Society of Cardiology**, 9–21 May 2021, online, Department of Internal Medicine, First Faculty of Medicine, Charles University, and Military University Hospital in Prague
- **48th May Hepatology Days**, 12–14 May 2021, online, 4th Department of Internal Medicine – Department of Gastroenterology and Hepatology, First Faculty of Medicine, Charles University, and General University Hospital, Department of Internal Medicine, First Faculty of Medicine, Charles University, and Military University Hospital in Prague

JUNE

- **26th Meeting of Pneumologists and 10th Meeting of Pneumologists and Pneumothoracic Surgeons in the Emmaus Monastery**, 3 June 2021, Prague, Department of Respiratory Medicine, First Faculty of Medicine, Charles University, and Thomayer University Hospital, and Department of Thoracic Surgery, Thomayer University Hospital

- **Hepatology Academy**, 4–5 June 2021, Prague, 4th Department of Internal Medicine – Department of Gastroenterology and Hepatology, First Faculty of Medicine, Charles University, and General University Hospital
- **IWUGO – 9th International Workshop on Ultrasound in Gynaecologic Oncology**, 14–15 June 2021, online, Department of Obstetrics and Gynaecology, First Faculty of Medicine, Charles University, and General University Hospital
- **35th Conference on Hyperlipoproteinemia – Šobr Day**, 16 June 2021, Prague, 3rd Department of Internal Medicine – Department of Endocrinology and Metabolism, First Faculty of Medicine, Charles University, and General University Hospital
- **Třeboň Rheumatology Days**, 16–18 June 2021, Prague, hybrid, Department of Rheumatology, First Faculty of Medicine, Charles University, and the Institute of Rheumatology
- **21st National Diabetology Symposium in Průhonice**, 18–19 June 2021, Průhonice, 3rd Department of Internal Medicine – Department of Endocrinology and Metabolism, First Faculty of Medicine, Charles University, and General University Hospital
- **Virtual Scientific CDG Symposium 2021**, 21–23 June 2021, online, Department of Paediatrics and Inherited Metabolic Disorders, First Faculty of Medicine, Charles University, and General University Hospital
- **Kunc Memorial**, 24 June 2020, Prague, Department of Neurosurgery and Neurooncology, First Faculty of Medicine, Charles University, and Military University Hospital in Prague

SEPTEMBER

- **Morphology 2021**, 9–11 September 2021, Prague, Institute of Anatomy, First Faculty of Medicine, Charles University
- **Atherosclerosis 2021 – Diagnosis, Treatment, Prevention in Childhood and Adulthood**, 15–16 September 2021, Prague – under the auspices of Dean of the First Faculty of Medicine, Charles University, Prof. Martin Vokurka, 4th Department of Internal Medicine – Department of Gastroenterology and Hepatology, First Faculty of Medicine, Charles University, and General University Hospital
- **COTEC–ENOTHE International Virtual Congress**, 15–18 September 2021, Prague – under the auspices of Dean of the First Faculty of Medicine, Charles University, Prof. Martin Vokurka, Department of Rehabilitation Medicine, First Faculty of Medicine, Charles University, and General University Hospital
- **16th International Symposium on IgANephropathy**, 21–23 September 2021, online, Department of Nephrology, First Faculty of Medicine, Charles University, and General University Hospital
- **24th Days of Intensive Care**, 22–24 September 2021, Kroměříž – under the auspices of Dean of the First Faculty of Medicine, Charles University, Prof. Martin Vokurka, and Director of the Thomayer University Hospital, Assoc. Prof. Zdeněk Beneš, CSc., Department of Anaesthesiology, Resuscitation and Intensive Care, First Faculty of Medicine, Charles University, and Thomayer University Hospital
- **Symposium 100 Years of Forensic Medicine in Prague, Albertov**, 23 September 2021, Prague, Institute of Forensic Medicine and Toxicology, First Faculty of Medicine, Charles University a General University Hospital
- **6th Cadaver Workshop**, 23–24 September 2021, Prague, Institute of Anatomy, First Faculty of Medicine, Charles University
- **64th Congress of Czech and Slovak Rheumatologists**, 23–25 September 2021, Olomouc, Department of Rheumatology, First Faculty of Medicine, Charles University, and the Institute of Rheumatology
- **CELME 2021 – 4th Symposium Cutting Edge of Laboratory Medicine**, 30 September – 1 October 2021, Prague, Institute of Medical Biochemistry and Laboratory Diagnostics, First Faculty of Medicine, Charles University, and General University Hospital
- **29th Annual Congress of the Czech Ophthalmological Society**, 30 September – 2 October 2021, Prague, Department of Ophthalmology, First Faculty of Medicine, Charles University, and General University Hospital

OCTOBER

- **15th Congress of the Czech Society of Clinical Biochemistry**, 10–12 October 2021, Zlín, Institute of Medical Biochemistry and Laboratory Diagnostics, First Faculty of Medicine, Charles University, and General University Hospital
- **G3 Talks**, 14 October 2021, Vestec, Biocev
- **School of Clinical Neurophysiology at the 67th Joint Congress of the Czech and Slovak Society of Clinical Neurophysiology**, 20–21 October 2021, Prague, Department of Neurology, First Faculty of Medicine, Charles University, and General University Hospital
- **17th Seminar of Young Rheumatologists**, 21–23 October 2021, Mikulov, Department of Rheumatology, First Faculty of Medicine, Charles University, and Institute of Rheumatology
- **ESGO 2021 – 22nd European Gynaecological Oncology Congress of the European Society of Gynaecological Oncology**, 23–25 October 2021, Prague, Department of Obstetrics and Gynaecology, First Faculty of Medicine, Charles University, and General University Hospital

NOVEMBER

- **Congress of Physical Education Medicine 2021**, 4–6 November 2021, České Budějovice, Institute of Physical Education, First Faculty of Medicine, Charles University, and General University Hospital
- **42nd Symposium of the Department of Orthopaedics of the First Faculty of Medicine, Charles University, and Bulovka University Hospital and Institute of Postgraduate Education**, 5 November 2021, Prague, Department of Orthopaedics, First Faculty of Medicine, Charles University, and Bulovka University Hospital
- **Two-day seminars with theoretical and practical instruction on intraocular inflammation**, 9–10 November and 30 November – 1 December 2021, Prague, Department of Ophthalmology, First Faculty of Medicine, Charles University, and General University Hospital
- **7th Congress of the Czech Society of Gastroenterology of the Czech Medical Association of J. E. Purkyně**, 10–12 November 2021, Prague, hybrid, Department of Medicine, First Faculty of Medicine, Charles University, and Military University Hospital in Prague
- **57th Days of Nuclear Medicine 2021**, 11–13 November 2021, online, Institute of Nuclear Medicine, First Faculty of Medicine, Charles University, and General University Hospital
- **Mobility Exchange Programme ERN–RITA Affiliated Partners**, 18–20 November 2021, Prague, Department of Paediatrics and Inherited Metabolic Disorders, First Faculty of Medicine, Charles University, and General University Hospital
- **Diabetic Foot Syndrome**, 26 November 2021, online, Department of Surgery, First Faculty of Medicine, Charles University, and Thomayer University Hospital
- **Functional Organisation of the Cell Nucleus Symposium**, 29 November 2021, Prague, Institute of Biology and Medical Genetics, First Faculty of Medicine, Charles University, and General University Hospital
- **Krč Paediatrics Afternoon**, 30 November 2021, Prague, Department of Paediatrics, First Faculty of Medicine, Charles University, and Thomayer University Hospital

DECEMBER

- **3rd National Congress of Gastrointestinal Oncology**, 2–3 December 2021, Prague, hybrid, Department of Internal Medicine, First Faculty of Medicine, Charles University, and Military University Hospital in Prague, Institute of Medical Biochemistry and Laboratory Diagnostics, First Faculty of Medicine, Charles University, and General University Hospital
- **26th Educational Symposium of Plastic and Aesthetic Surgery**, 4 December 2021, Prague, Department of Plastic Surgery, First Faculty of Medicine, Charles University, and Bulovka University Hospital
- **19th Acute Cardiology Conference**, 5–7 December 2021, Karlovy Vary, hybrid, Department of Internal Medicine, First Faculty of Medicine, Charles University, and Military University Hospital in Prague
- **European Pharmacology Congress EPHAR**, 6–8 December 2021, online, Institute of Pharmacology, First Faculty of Medicine, Charles University, and General University Hospital



Arnošt z Pardubic Prize in the category Excellent Teacher was awarded to Assoc. Prof. MUDr. Ondřej Naněk, Ph.D., Head of the Institute of Anatomy, First Faculty of Medicine, Charles University; in the category Outstanding Achievement in Educational Activities at the Charles University, it was awarded to Assoc. Prof. Mgr. Roman Gabrhelík, Ph.D., from the Department of Addictology, First Faculty of Medicine, Charles University, and General University Hospital for online educational programme INEP (Introduction to Evidence-Based Prevention).

Albert Schweitzer Prize for Medicine – MUDr. Diana Maláriková, student of a doctoral programme in Human Physiology and Pathophysiology won the 2nd place.

Bolzano Prize – Mgr. Kateřina Kreisingerová, Ph.D., graduate of the doctoral study programme in Molecular and Cell Biology, Genetics and Virology, won the Bolzano Prize in category biomedicine with her dissertation thesis Molecular Mechanism of Tumour Pathogenesis of Hedgehog Signalling Pathway in Selected Tumour Types

Josef Hlávka Prize for the best students and graduates of public university-level schools in Prague and the Polytechnic in Brno and for talented young staff of the Academy of Sciences of the Czech Republic was won by MUDr. Michaela Bártů, Ph.D., graduate of a doctoral programme Imaging Methods in Medicine.

Bedřich Hrozný Prize for Creative Initiative was awarded to Prof. MUDr. Václav Smrček, CSc., et al. for the publication *Health and Disease in the Neolithic Lengyel Culture*.

Dean's Board Awards for Excellence in Publications for 2020

1st Place

- Šoupal J.*, Petruželková L., Grunberger G., Hásková A., Flekač M., Matoulek M., Mikeš O., Pelcl T., Škrha J., Horová E., Škrha J., Parkin ChG., Svačina Š., Prázný M., Glycemic Outcomes in Adults with T1D Are Impacted More by Continuous Glucose Monitoring Than by Insulin Delivery Method: 3 Years of Follow-Up from the COMISAIR Study. *Diabetes Care*. 2020, 43(1), 37-43. IF (2020) = 19.112.

2nd – 4th Place

- Dušek P.*, Smolinski L., Redzia-Ogrodnik B., Golebiowski M., Skowronska M., Poujois A., Laurencin Ch., Jastrzebska-Kurkowska I., Litwin T., Czlonkowska A., Semiquantitative Scale for Assessing Brain MRI Abnormalities in Wilson Disease: A Validation Study. *Movement Disorders*. 2020, 35(6), 994-1001. IF (2020) = 10.338.
- Hásková A., Radovnická L., Petruželková L., Parkin ChG., Grunberger G., Horová E., Navrátilová V., Kádě O., Matoulek M., Prázný M., Šoupal J.*, Real-time CGM Is Superior to Flash Glucose Monitoring for Glucose Control in Type 1 Diabetes: The CORRIDA Randomised Controlled Trial. *Diabetes Care*. 2020, 43(11), 2744-2750. IF (2020) = 19.112.
- Vítek L.* – Tiribelli C. Bilirubin, Intestinal Integrity, the Microbiome, and Inflammation. *The New England Journal of Medicine*. 2020, 383(7), 684-686. IF (2020) = 91.245.

5th Place

- Dráberová H., Janusova S., Knížková D., Šemberová T., Přibíková M., Ujević A., Harant K., Knapkova S., Hrdinka M., Fanfani V., Stracquadanio G., Drobek A., Ruppova K., Stepanek O.*, Dráber P.*, Systematic analysis of the IL-17 receptor signalosome reveals a robust regulatory feedback loop. *The EMBO Journal*. 2020, 39(17), e104202. IF (2020) = 11.598.

Prize of the *Folia Biologica* journal went to article 'The role of HNF1B in tumorigenesis of solid tumours: A review of current knowledge' by Bártů M., Dundr P., Němejcová K., Tichá I., Hojný H., Hájková N. *Folia Biologica*. 2018, 64, 71–83.

Rector's and Scientific Boards' Awards of the Charles University – On the occasion of significant life anniversaries and for contribution to the development of the Charles University, in 2021 the Rector of Charles University based on a proposal of the Dean of the First Faculty of Medicine of the Charles University awarded the Gold Medal to Prof. MUDr. Terezie Fučíková, DrSc., Prof. MUDr. Jiří Raboch, DrSc., and Prof. MUDr. Aleš Žák, DrSc.. Silver Medal was awarded to Assoc. Prof. MUDr. Jan Tošovský, CSc., Prof. MUDr. Petra Tesařová, CSc., Assoc. Prof. MUDr. Radim Kočvara, CSc., Prof. MUDr. Ivan Landor, CSc., Prof. MUDr. Tomáš Hanuš, DrSc., Ing. Eva Soubustová, MBA, and Assoc. Prof. ThDr. Václav Ventura, ThD.

Josef Chmelík Award for the best proteomic publication was awarded by the Proteomics Section of the Czech Society for Biochemistry and Molecular Biology to RNDr. Ondřej Vít, Ph.D.

Joint Annual Award of ČAS & Olympus for 2021 was awarded to Mgr. Karolína Strnadová and Ing. Jiří Novotný (First Faculty of Medicine, Charles University, and the Institute of Molecular Genetics, Academy of Sciences of the Czech Republic) for their publication Novotný J., Strnadová K., Dvořánková B., Kocourková Š., Jakša R., Dundr P., Pačes V., Smetana K. Jr., Kolář M., Lacina L., Single-Cell RNA Sequencing Unravels Heterogeneity of the Stromal Niche in Cutaneous Melanoma Heterogeneous Spheroids. *Cancers (Basel)*. 2020 Nov. 10, 12(11), 3324.

Award of the Czech Society of Experimental and Clinical Pharmacology and Toxicology for the best publication in Clinical Pharmacology went to the publication: Pokorná P., Šíma M., Černá O., Allegaert K., Tibboel D., Slanař O., Actual body weight-based vancomycin dosing in neonates. *J Chemother*. 2019 Oct. 31(6):307-312.

Jaroslav Jirsa Prize for the best textbook in the medical-pharmaceutical fields, published in 2020 (awarded in 2021), was awarded to the textbook *Fyziologie – Repetitorium* [Physiology – Repertory], authors Mysliveček, Jaromír and Riljak, Vladimír.

František Běhounek Award of the Ministry of Education, Youth and Sports for the promotion and popularisation of Czech science – Gerontology and Geriatrics in the European Research Area was awarded to Prof. MUDr. Eva Topinková, CSc.

The Scientia Foundation awarded prizes for the best scientific papers by postgraduate students of the First Faculty of Medicine, Charles University: 1st Place: MUDr. Roman Kocián, Ph.D., and Mgr. Aneta Hásková, MUDr. Jozef Buday, Ph.D.; 3rd Place: MUDr. Otakar Dušek, Ph.D., Mgr. Kateřina Faltusová, Ph.D.

The Czech Society for Atherosclerosis Award for the best publication in 2020 was awarded to MUDr. Peter Ivák, Ph.D., The Effect of Artificial Pulsatility on the Peripheral Vasculature in Patients with a Continuous-Flow Ventricular Assist Device. *Can J Cardiol*. 2021, 37, 1578-1585.

Reiniš Prize of the Czech Society of Angiology of the Czech Medical Association of J. E. Purkyně for the best paper by an author under 35 years was in 2020 awarded to MUDr. Peter Ivák, Ph.D. (Ivak P. et al., Changes in circulating stem cells and endothelial progenitor cells over a 12-month period after implantation of a continuous flow left ventricular assist device, *Arch Med Sci*. 2020, 16, 1440-3).

Special Recognition of the Czech Society of Anaesthesiology Resuscitation and Intensive Care for the development of the field of Anaesthesiology and Intensive Care was awarded to MUDr. Jiří Valenta, Anaesthesiology, Resuscitation and Intensive Care.

Cross of Merit of the Minister of Defence of the Czech Republic for outstanding performance of his duties in ensuring activities at the National Vaccination Centre against Covid-19 in the O2 Arena was awarded to Assoc. Prof. MUDr. Ondřej Beran, Ph.D.

Professor Páv Prize for original publication was awarded to Mgr. Aneta Hásková for the article Hásková A., Radovnická L., Petruželková L., Parkin C.G., Grunberger G., Horová E., Navrátilová V., Kádě O., Matoulek M., Prázný M., Šoupal J., Real-time CGM Is Superior to Flash Glucose Monitoring for Glucose Control in Type 1 Diabetes. The CORRIDA Randomized Controlled Trial (2020). *Diabetes care*. 43(11), 2744-2750.

Kutvirt Prize for 2020 in the category over 35 years of age was awarded to the authors of article Kalfeřt D., Ludvíková M., Pešta M. et al.: Multifunctional Roles of miR-34a in Cancer, A Review with the Emphasis on Head and Neck Squamous Cell Carcinoma and Thyroid Cancer with Clinical Implications. *Diagnostics (Basel)*. 2020, 10(8), 563.

Czech Society of Rheumatology Prize for the best publication in 2020 was awarded to Pavelcová K., Bohata J., Pavlíková M., Bubeníková E., Pavelka K., Stiburková B., Evaluation of the Influence of Genetic Variants of SLC2A9 (GLUT9) and SLC22A12 (URAT1) on the Development of Hyperuricemia and Gout. *J Clin Med*. 2020, Aug 4, 9(8), 2510.

Honorary Mention of the Minister of Health of the Czech Republic for Medical Research and Development for 2020 was awarded to Prof. MUDr. Sergej Zacharov, Ph.D.

Gold Medal of the Czech Medical Association of J. E. Purkyně and the Medal of the Slovak Society for Osteoporosis and Metabolic Bone Diseases were awarded to Prof. MUDr. Jan Štěpán, DrSc.

Professor O. Vlach Prize for the best publication in the field of spondylosurgery in 2021 was awarded to Štulík J., Geri G., Salavcová L., Barna M., Fojtík P., Naňka O., Paediatric dens anatomy and its implications for fracture treatment: anatomical and radiological study. *Eur Spine J*. 2021, 30(2), 416-424.

The Ministry of Defence of the Czech Republic Moral Authority Award was presented to Prof. MUDr. Vladimír Beneš, DrSc.

Prize of the Presidium of the Czech Medical Association of J. E. Purkyně for the best 2020 monograph was awarded to the authors of publication Uhrová T., Roth T. et al., *Neuropsychiatry*. Maxdorf, 2020.

Award of the Czech Neurological Society of the Czech Medical Association of J. E. Purkyně for outstanding original work went to Uher T., Schaedelin S., Srpová B., Barro C., Bergsland N., Dwyer M., Týblova M., Vodehnalová K., Benkert P., Oechtering J., Leppert D., Naegelin Y., Krasensky J., Vaněčková M., Kubala Havrdová E., Kappos L., Zivadinov R., Horáková D., Kuhle J., Kalincik T., Monitoring of radiologic disease activity by serum neurofilaments in MS. *Neurol Neuroimmunol Neuroinflamm*. 2020, Apr 9, 7(4), e714.

Award of the Czech Neurological Society of the Czech Medical Association of J. E. Purkyně for the best monograph or teaching text of the year 2020 was presented to Uhrová T., Roth J. et al., *Neuropsychiatrie*. Maxdorf, 2020.

Award of the Czech Society for Sleep Research and Sleep Medicine for original publication by an author over 35 years of age was presented to Příhodová I., Nepožitek J., Kelifová S., Dostálová S., Kemlink D., Šonka K., Tesařová M., Honzík T., Kolářová H., Subjective and polysomnographic evaluation of sleep in mitochondrial optic neuropathies. *J Sleep Res*. 2020, Jun 10, e13051.

Honorary Award of the Czech Society for Sleep Research and Sleep Medicine was given to the authors of publication Nevšímalová S. and Šonka K. (eds.), *Sleep and wakefulness disorders*, 3rd edition, Prague: Galén, 2020.

Kuffner Prize of the Czech Psychiatric Society of the Czech Medical Association of J. E. Purkyně was awarded to Nevšímalová S. and Šonka K. (eds.), *Sleep and wakefulness disorders*, 3rd edition, Prague: Galén, 2020.

National Neuropsychological Prize of J. Diamant was awarded for the publication Havlík F., Michalec J., Kališová L., Děchtěrenko F., Chlebovcová M., Vaškovicová M., Bezdickec O., The normative data study of the Czech MATRICS consensus cognitive battery. *Clin Neuropsychol*. 2021, Dec, 35(sup1), S50-S64.

2020 Best Article at the Institute of Psychiatry and Neurology, Warsaw, Poland, prize was awarded to Dušek P., Smolinski L., Redzia-Ogrodnik B., Golebiowski M., Skowrońska M., Pourjois A., Laurencin C., Kurkowska-Jastrzebska I., Litwin T., Czlonkowska A., Semiquantitative Scale for Assessing Brain MRI Abnormalities in Wilson Disease: A Validation Study. *Mov Disord*. 2020, Vol. 35 (nr6), pp. 994–1001.

Henner Foundation Prizes for 2020 original publications for authors under 35 years of age

1st place

- **MUDr. Dominik Škrabal** – Škrabal D., Tykalová T., Klempíř J., Růžička E., Rusz J.: Dysarthria enhancement mechanism under external clear speech instruction in Parkinson's disease, progressive supranuclear palsy and multiple system atrophy. *Neural Transm*. 2020, 127, 905-914.

2nd place

- **MUDr. Jana Mašková, Ph.D.** – Mašková J., Školoudík D., Štofániková P., Ibarburu V., Kemlink D., Zogala D., Trnka J., Krupička R., Šonka K., Růžička E., Dušek P.: Comparative study of the substantia nigra echogenicity and ¹²³Iloflupane SPECT in patients with synucleinopathies with and without REM sleep behavior disorder. *Sleep Medicine*. 2020, 70, 116-123.

3rd place

- **Mgr. Lucie Friedová** – Friedová L., Motýl J., Srpová B., Oechtering J., Barro Ch., Vodehnalová K., Andělová M., Nosková L., Fialová L., Kubala Havrdová E., Horaková D., Benedict R. Hb., Kuhle J., Uher T.: The weak association between neurofilament levels at multiple sclerosis onset and cognitive performance. *Mult Scler Relat Disord*. 2020, Nov, 46, 102534.

Award of the Dean's Board was in 2021 presented to Prof. MUDr. Jarmila Heissigerová, Ph.D., for her article published in the *Ophthalmology* magazine. 2019, Mar, 126(3), 428-437.

TOP LIST – a European list of the best women in ophthalmology and vision research for 2021 included Prof. MUDr. Petra Lišková, M.D., Ph.D.

Award of the Academy of Sciences of the Czech Republic for outstanding achievement in research, experimental development, and innovation for 2021 was presented for the scientific result '5-fluorouracil and other fluoropyrimidines in colorectal cancer: past, present, and future' to Mgr. Soňa Vodenková, Ph.D., Prof. MUDr. Tomáš Büchler, Ph.D., Mgr. Klára Červená, MUDr. Veronika Veškrnová, MUDr. Pavel Vodička, CSc., and Ing. Veronika Vymetálková.

Memorial Diploma of the Czech Society of Hospital Epidemiology and Hygiene was awarded to Prof. MUDr. Vladimír Bencko, DrSc. for many years of professional and pedagogical activity in the field, and for his contribution to the establishment and development of the Society and its admission to the Czech Medical Association of J. E. Purkyně

Josef V. Košťál Prize of the Czech Society for Biochemistry and Molecular Biology was awarded to Prof. MUDr. Libor Víttek, Ph.D. for his significant scientific contribution to the fields of biochemistry and cellular and molecular biology.



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