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“MULTIDISCIPLINARY APPROACH IN EMERGENCY AND URGENT MEDICINE” — CONFERENCE DEDICATED TO THE 220th ANNIVERSARY OF THE CITY MARIINSKY HOSPITAL

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ABSTRACT. In 2023, the City Mariinsky Hospital celebrated its 220th anniversary. In honor of the anniversary, a series of commemorative events were held at the hospital — the opening of the restored Temple of St. Apostle Paul, a ceremonial shot from the Naryshkin Bastion of the Peter and Paul Fortress, a solemn gathering and concert at the Mariinsky Theatre, the unveiling of a monument to Prince P.G. Oldenburg, and a scientific-practical conference “Multidisciplinary Approach in Emergency and Urgent Medicine”. This publication is focused on the conference held on December 8, 2023, its preparation, 8 sectional sessions, more than 70 scientific reports, lively discussions, exchange of experiences and opinions, scientific and museum exhibition, and of course the participants (over 650 specialists from St. Petersburg and regions of Russia). The idea of organizing scientific-practical conferences at the Mariinsky Hospital is not innovative; similar events are regularly held by the institution authorities and are part of its century-old traditions. The educational goal of this event was take the conference audience through modern trends, technologies, methodologies, and research results based on a multidisciplinary approach in emergency and urgent medicine. Two master classes: “Bedside Ultrasound Evaluation of Patients in Critical Condition in a Multi-profile Emergency Medical Station” and “Algorithms for the Safe Use of Electrosurgical Equipment”, were held at the hospital site and preceded the conference. In general, the multidisciplinary experience of providing medical care presented at the conference sessions and reported in this publication, has proven to be of great importance not only for the healthcare system of the city of St. Petersburg but can also be effective for the entire healthcare system of the Russian Federation.

KEYWORDS: Mariinsky Hospital, 220th anniversary, conference, multidisciplinary approach, emergency medicine

«МУЛЬТИДИСЦИПЛИНАРНЫЙ ПОДХОД В ЭКСТРЕННОЙ И НЕОТЛОЖНОЙ МЕДИЦИНЕ» — КОНФЕРЕНЦИЯ, ПОСВЯЩЕННАЯ 220-ЛЕТИЮ ГОРОДСКОЙ МАРИИНСКОЙ БОЛЬНИЦЫ

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РЕЗЮМЕ. В 2023 году Городская Мариинская больница отметила свой 220-летний юбилей. В честь юбилея больницей проведен ряд памятных мероприятий — открытие восстановленного Храма святого апостола Павла, торжественный выстрел с Нарышкинского бастиона Петропавловской крепости, торжественное собрание и концерт в Мариинском театре, открытие памятника принцу П.Г. Ольденбургскому, а также проведена научно-практическая конференция «Мультидисциплинарный подход в экстренной и неотложной медицине». В данной публикации пойдет речь о проведенной 8 декабря 2023 года конференции, ее подготовке, 8 секционных заседаниях, более 70 научных докладах, живых дискуссиях, обмене опытом и мнениями, научной и музейной выставке и, конечно, участниках (свыше 650 специалистов Санкт-Петербурга и регионов России). Идея проведения научно-практических конференций в Мариинской больнице не нова, подобные мероприятия проводятся учреждением на регулярной основе и представляют собой одну из вековых традиций учреждения. Образовательной целью данного мероприятия явилось ознакомление аудитории конференции с современными тенденциями, технологиями, методиками и результатами научных исследований на основе мультидисциплинарного подхода в экстренной и неотложной медицине. Предшествовали конференции два мастер-класса, проведенных на территории больницы, — «Прикроватная УЗ-оценка пациентов в критическом состоянии в многопрофильном стационаре скорой медицинской помощи» и «Алгоритмы безопасного использования электрохирургического оборудования». В целом освещаемый в данной публикации мультидисциплинарный опыт оказания медицинской помощи, представленный на полях конференции, имеет большое значение не только для всей системы здравоохранения города Санкт-Петербурга, но и для России в целом.

КЛЮЧЕВЫЕ СЛОВА: Мариинская больница, 220-летний юбилей, конференция, мультидисциплинарный подход, экстренная и неотложная медицина

In 2023, the City Mariinsky Hospital celebrated 220th anniversary, while St. Petersburg celebrated 320th birthday. The initiator of the hospital's establishment and head during the first 25 years of functioning was the Dowager Empress Maria Fyodorovna, wife of Paul I. The hospital was presented by the imperial family to the city in honor of its 100th anniversary, and the Empress invited the talented architect Giacomo Quarenghi to build the hospital facilities [1, 2].

On May 28, 1803 the construction of the hospital began with laying of the foundation stone of the Church of St. Paul the Apostle, which became the first St. Petersburg hospital temple. According to the plan of Empress Maria Fyodorovna, it should have become the central part of the hospital, its “heart”, because the merciful service to the sick should have a truly spiritual basis. All buildings of the hospital were finally finished and opened in

Spring 1805, and it was named “Hospital for the Poor”.

The Empress Maria Feodorovna’s directly participated in all affairs of the hospital and made it an exemplary hospital, not only among Russian but also among foreign clinics. After the death of the Empress in 1828 the hospital was renamed and became known as the “Mariinsky Hospital for the Poor” [3, 4].

From 1839 to 1881 the hospital was managed by Prince Peter Georgievich Oldenburgsky, grandson of Emperor Paul I and Maria Feodorovna. Under his leadership, the hospital underwent great changes: stone buildings of the prosecutor’s office, a new two-floor laundry building, the Alexandrinsky Hospital building, and a two-story stone house were built to accommodate patients during the summer months, as well as in case of any epidemics at any time of the year. He personally developed and purchased the most advanced medical equipment for that time.

Prince P.G. Oldenburgsky ran the hospital for more than 40 years, and after his death there was a solemn opening of a monument with the participation of the entire august family in front of the hospital building. Unfortunately, in the 30s of the XX century the monument was lost.

It is noteworthy that for all these 220 years, not a single episode such as epidemics, wars, and revolutions, has passed over hospital walls. The hospital was located in the center of the city and was the first to provide aid to the sick and wounded. Many of its employees traveled to the theater of war, the elimination of epidemics, and various expeditions. Outstanding medical scientists worked here, their works made a huge contribution to domestic and world medical science [5, 6].

In 1918, the Mariinsky Hospital for the Poor was named “Hospital in Memory of Victims of the Revolution”, in the same year the hospital church was closed. In 1935 the clinic was given the name of the revolutionary V. V. Kuibyshev. And finally, on June 17, 1992, the hospital was returned to its historical name — “City Mariinsky Hospital”.

At present the City Mariinsky Hospital is a modern multidisciplinary hospital with 1030 beds, working in the system of rendering mainly emergency medical aid to the city population. 13 buildings and facilities of the hospital are located in the historical center of St. Petersburg on the territory of 5.02 hectares, where clinical and therapeutic-diagnostic divisions are located. Today the hospital employs more than 2,500 people [7–10].

A number of commemorative events were held in honor of the 220th anniversary of the hospital:



Fig. 1. Church of the First-Born Apostle Paul after restoration, 2023

Рис. 1. Храм Первоверховного Апостола Павла после реставрации, 2023 год

- on June 7, 2023, the rebuilt Church of St. Paul the Apostle was opened (Fig. 1), a ceremonial shot was fired from the Naryshkin Bastion of the Peter and Paul Fortress, and a solemn meeting and concert were held at the Mariinsky Theater;
- on August 9, 2023, a monument to Prince P.G. Oldenburgsky was unveiled (Fig. 2) in the presence of members of the imperial family, his grandson Gounod von Oldenburgsky, his wife and children.
- on December 8, 2023, the Scientific and Practical Conference “Multidisciplinary Approach in Emergency and Urgent Medicine” was held; its initiators were A.A. Zavrzhnov, Chief Physician from 2020 to 2023, and I.A. Reutsky, Chief Physician from 2023 to the present.

The conference was organized by the Government of St. Petersburg, St. Petersburg Health Care Committee, City Mariinsky Hospital, St. Petersburg State Pediatric Medical University, Russian Society of Surgeons, Pirogov Surgical Society, St. Petersburg Anesthesiology and Reanimatology



Fig. 2. The restored monument to Prince Peter Georgievich of Oldenburg on Liteyny Avenue, 2023

Рис. 2. Восстановленный памятник Принцу Петру Георгиевичу Ольденбургскому на Литейном проспекте, 2023 г.

Society, and St. Petersburg S.P. Botkin Therapeutic Society.

The educational goal of the event was to familiarize the conference audience with modern technologies, methods and results of scientific research on the basis of the multidisciplinary approach in emergency medicine.

The following specialists were invited to participate in the conference: health care organizers, general practitioners, general surgeons, anesthesiologists and reanimatologists, epidemiologists, rehabilitologists, diagnosticians and other specialists.

The program committee was headed by Igor Alexandrovich Reutsky. Co-chairmen of the Conference Organizing Committee were: Anatoly Anatolievich Zavrazhnov — Chief Physician of St. Petersburg State Budgetary Institution “City Mariinsky Hospital” (2020–2023), Honored Physician of the Russian Federation, Doctor of Medical Sciences, Professor; Dmitry Olegovich Ivanov — Rector of the Federal State Budgetary Educational Institution of Higher Professional Education,

St. Petersburg State Pediatric Medical University of the Ministry of Health of Russia, Chief Supernumerary Neonatologist of the Ministry of Health of Russia, Doctor of Medical Sciences, Professor.

Larisa Vasilievna Scheglova — Head of Clinical and Analytical Department of St. Petersburg State Budgetary Institution “City Mariinsky Hospital”, Honored Physician of the Russian Federation, Doctor of Medical Sciences, Professor, and Ivan Petrovich Dudanov — Corresponding Member of the Russian Academy of Sciences, Doctor of Medical Sciences, Professor, cardiovascular surgeon of St. Petersburg State Budgetary Institution “City Mariinsky Hospital” were appointed as Deputy Chairmen of the Organizing Committee.

The Organizing Committee also included Academician of the Russian Academy of Sciences G.G. Khubulava, Professor P.K. Yablonsky, Professor M.P. Korolev, Professor V.I. Orel, Professor Y.S. Alexandrovich and many others. L.Y. Artyukh became the executive secretary. The public organization “Human and His Health” was invited to assist the hospital management during the conference.

The scientific program of the conference included a plenary session and 8 sectional sessions:

1. Vascular catastrophes: ecosystem approach in providing emergency and planned medical care.
2. Anesthesiology-reanimation service in a multidisciplinary hospital of emergency medical care — current issues.
3. Modern strategies of emergency and urgent medical care in a multidisciplinary hospital.
4. Multidisciplinary approach in emergency surgery.
5. Surgery of peacetime injuries in terms of a multidisciplinary hospital.
6. Actual aspects of nephrological care in a modern multidisciplinary hospital.
7. Outpatient and inpatient medical care — unity of the treatment approach, 20 years in the epicenter of St. Petersburg health.
8. Quality issues of emergency and urgent medical care — accumulated experience and unsolved problems.

On December 7, 2023, 2 master classes were held on the territory of the hospital to await the conference.

The master class “Bedside ultrasound assessment of patients in critical condition in a multidisciplinary emergency hospital”, aimed at

anesthesiologists-resuscitator and doctors of functional diagnostics, consisted of two parts: “Algorithm of examination of patients in shock of unclear etiology (RUSH — HI MAP) and circulatory arrest (SHoC)” and “Sonographic stethoscope for routine examination of patients in ORIT”.

After the welcoming words of Alexander Alexandrovich Andreenko, Deputy Chief Physician for Medicine, and Alexander Sergeevich Russin, Acting Deputy Chief Physician for Anesthesiology and Resuscitation, the participants gathered in the anti-shock ward of the Emergency Department.

Each part of the practical masterclass took more than 2 hours. The speaker of the master class was Roman Evgenievich Lakhin, Professor, Doctor of Medical Sciences, President of the Scientific and Practical Society of Anesthesiologists and Resuscitators of St. Petersburg (Fig. 3). He personally demonstrated to the participants the method of rapid ultrasound examination (USI) of a patient in shock of unclear etiology and hypotension, which allows to promptly assess the patient's haemodynamic status. “Victims” were volunteers from the participants. Particular emphasis was placed on the algorithm of ultrasound sequence. After demonstration of ultrasound diagnostics, the algorithm of SHoC (Sonography in Hypotension and Cardiac Arrest) protocol application was discussed to identify potentially reversible causes of circulatory arrest.

The second part of the masterclass took place in the intensive care unit for cardiac surgical patients. Rapid bedside assessment of the patient in the intensive care unit (ICU) provides important information about the patient's condition and dynamics to determine the tactics of further intensive care, while focused echocardiographic examination provides valuable information about cardiac function and volemic status.

The training demonstrated techniques for visual assessment of cardiac contractility and quantitative measurements, Doppler assessment of pulmonary artery pressure and valve function. During the training event, a lung ultrasound protocol was also presented, which provides insight into stasis in the small circle of circulation and the presence of inflammatory changes in the lungs.

The second master class “Algorithms for the Safe Use of Electrosurgical Equipment” was conducted for surgeons of all specialties, clinical residents and surgical nurses and was opened by Igor Aleksandrovich Reutsky, Chief Physician of the Mariinsky Hospital (Fig. 4). He wished all those present to find practical application of new

knowledge gained in their professional activities. Ivan Anatolievich Soloviev, Deputy Chief Physician for Surgery, moderated the training event “Algorithms for the Safe Use of Electrosurgical Equipment”; the speaker was Sergey Yurievich Vorontsov, an expert of the Technical Committee of the Russian Society of Endoscopic Surgeons (ROES), Development Director of EFA Medica.

During the master class the participants were given a brief overview of historical aspects of the emergence and development of electrosurgery, basic concepts of physical processes in the operation of HFED (high-frequency electrosurgical device). Specialists discussed the use of different modes of electrosurgical exposure and preparation of the working equipment, safety rules during its use and potential risks, as well as how to avoid complications, in particular, when using monopolar exposure in open and laparoscopic surgeries. All points of the electrosurgical exposure checklist were illustrated with videos and practical on-site demonstrations with physical demonstrations of argon plasma coagulation capabilities.

The Interregional Scientific and Practical Conference “Multidisciplinary Approach in Emergency and Urgent Medicine” started on 8 December 2023. More than 650 specialists from St. Petersburg and regions of Russia came to share their experience and knowledge.

The plenary session was opened with a video greeting to the participants by the Vice-Governor of St. Petersburg Oleg Nikolayevich Ergashev (Fig. 5).

A.N. Rzhanev, Chairman of the Commission on Social Policy and Healthcare of the Legislative Assembly of St. Petersburg, K.N. Zvonik, Director of the Territorial Compulsory Medical Insurance Fund, representative of the Healthcare Committee — A.V. Antropov, representative of the Pediatric University — Y.S. Aleksandrovich, Chief Physician of the Mariinsky Hospital from 1998 to 2020 — O.V. Emelyanov.

Professor A.A. Zavrazhnikov spoke about the history of the Mariinsky Hospital and its role in the formation and development of national healthcare in the first report. Professor L.V. Scheglova made a report on the interaction of the hospital and medical universities of St. Petersburg as a practical base for students and residents, and Professor A.M. Volkov presented a report “Acute aortic syndrome”, outlining the routing system created in the city to combat the disease, the causes of its occurrence and methods of its surgical correction. The chief freelance nephrologist of St. Petersburg



Fig. 3. Conducting a master class by Professor R.E. Lakhin in the intensive care unit

Рис. 3. Проведение мастер-класса профессором Р.Е. Лахиным в отделении реанимации и интенсивной терапии



Fig. 4. Chief Physician of the Mariinsky Hospital I.A. Reutsky, Deputy Chief Physician for Surgery I.A. Solovyov, Deputy Chief Physician for Medical Affairs A.A. Andreenko (from left to right) at the opening of the master class "Algorithms for the safe use of electrosurgical equipment"

Рис. 4. Главный врач Мариинской больницы И.А. Реутский, заместитель главного врача по хирургии И.А. Соловьев, заместитель главного врача по медицинской части А.А. Андреев (слева направо) на открытии мастер-класса «Алгоритмы безопасного использования электрохирургического оборудования»



Fig. 5. Opening of the conference

Рис. 5. Открытие конференции

A.N. Belskikh presented the report “Nephrology and renal replacement therapy in St. Petersburg”, highlighting the main achievements and problems of nephrological care in the city.

At the end of the plenary session the work on specialized sections began. The section “Vascular Catastrophes: Ecosystem Approach in Emergency and Planned Medical Care” was led by Professor L.V. Shcheglova (Fig. 6), Professor A.M. Volkov, Professor I.A. Voznyuk and Corresponding Member of the Russian Academy of Sciences I.P. Dudanov. Eight reports were presented at the section, one of the most interesting among them was the report “Pathophysiology of postischemic cognitive disorders — why are there so many ‘dementia’ and ‘depression’?”, presented by Igor A. Voznyuk, Chief Supernumerary Neurologist of the Health Care Committee.

The section “Anesthesiology-Resuscitation Service in a Multidisciplinary Emergency Medical Care Hospital — Current Issues” was headed by Professor Y.S. Alexandrovich. In the course of the session the reports of Professors R.E. Lakhin “Central vein catheterisation using ultrasound navigation in shock” from the Kirov Military Medical Academy, D.V. Zabolotsky “Postoperative anesthesia — what we can do today” from the St. Petersburg State Pediatric Medical University were heard. Besides, the reports of the heads of the resuscitation departments of the Mariinsky Hospital, during which the participants of the section

received basic information about intensive care of severe closed chest trauma, the results of which were presented to the participants of the session.

The section “Multidisciplinary Approach in Emergency Surgery”, which gathered more than 90 conference participants, provoked vigorous discussion and interest. The section headed by Professor I.A. Soloviev discussed the methods of treatment of gastrointestinal ulcer bleeding by arterial embolization, diagnosis and treatment of pulmonary and gastroduodenal bleeding, modern approaches to the treatment of acute appendicitis and esophageal ruptures. Many questions were also raised by the reports of colleagues from other hospitals of the city, which presented their own experience in providing surgical care to patients with mechanical jaundice, perforative diverticulitis of the colon and pinched inguinal hernia.

The speakers of the panel session “Modern strategies of emergency and urgent medical care in a multidisciplinary hospital” under the direction of the Deputy Chief Medical Officer A.A. Andreenk, the Chief Consultant of the Ministry of Health of Russia in the North-West Federal District in the direction of “first aid” A.I. Makhnovsky and Professor E.K. Gumanenko presented information about the principles of work of a hospital team in an in-patient emergency department, algorithms of work of



Fig. 6. Presidium of the section “Vascular Catastrophes: an ecosystem approach in emergency and planned medical care”, from left to right: Head of the Department of General and Faculty Surgery of Petrozavodsk State University, Corresponding Member of the Russian Academy of Sciences, Professor I.P. Dudanov, Deputy Head of the 1st Department of Advanced Surgery doctors of the Kirov Military Medical Academy, Professor A.M. Volkov, Head of the Clinical and Analytical Department of the Mariinsky Hospital, Head of the Department of Family Medicine of the Faculty of Postgraduate and Additional Professional Education of St. Petersburg State Medical University, Professor L.V. Shcheglova

Рис. 6. Президиум секции «Сосудистые катастрофы: экосистемный подход в оказании экстренной и плановой медицинской помощи», слева направо: заведующий кафедрой общей и факультетской хирургии Петрозаводского государственного университета, член-корреспондент РАН, профессор И.П. Дуданов, заместитель начальника 1-й кафедры хирургии усовершенствования врачей Военно-медицинской академии им. С.М. Кирова, профессор А.М. Волков, руководитель клинко-аналитического отдела Мариинской больницы, заведующая кафедрой семейной медицины факультета последипломного и дополнительного профессионального образования СПбГПМУ, профессор Л.В. Щеглова

multidisciplinary teams in the course of emergency treatment of patients with patients with acute cerebral circulatory disorders (ACBD) in the therapeutic window, experience in applying internal algorithms of medical care for patients with out-of-hospital circulatory arrest, and much more (Fig. 7).

The sections ‘Topical aspects of nephrological care in a modern multidisciplinary hospital’ chaired by the Chief Consultant Nephrologist of St. Petersburg was successfully held. The sections “Out-patient and inpatient medical care — unity of approach, 20 years in the epicenter of public health in St. Petersburg” chaired by Professor V.I. Orla were also successfully carried out (Fig. 8).

The participants of the section “Surgery of peacetime injuries in a multidisciplinary hospital”, moderated by Professor E.K. Gumanenko, received information about approaches to the treatment of closed abdominal trauma, tactics of

its non-operative treatment, minimally invasive methods of fixation of pelvic bone fractures in the acute period of traumatic disease, modern methods of treatment in the conditions of the first (third) level trauma center.

The panel session on “Quality Issues of Emergency and Urgent Medical Care — Accumulated Experience and Unresolved Problems” chaired by Chief Physician I.A. Reutsky and featuring representatives of practical healthcare and employees of the St. Petersburg Healthcare Committee was beneficial as the main issues of quality and safety control of medical activities and the specifics of expert activities in a multidisciplinary hospital were discussed.

An exhibition of the Mariinsky Hospital Museum was set up in the lobby of the Congress Centre of the COSMOS Hotel, where rare museum exhibits were presented (Fig. 9). Some stands of the exhibition were dedicated to the



Fig. 7. The Presidium of the section "Modern strategies for the provision of emergency and emergency medical care in a multidisciplinary hospital", from left to right: Deputy Chief Physician for the medical part of the Mariinsky Hospital A.A. Andreenko, Deputy Chief physician for medical work of the City Ambulance Station L.E. Yelchinskaya, Deputy Chief Physician for Emergency Medical Care of the Scientific Research Institute named after I.I. Dzhanelidze A.I. Makhnovsky, Head of the Department of Extreme Medicine, Traumatology, Orthopedics and Military Field Surgery of Saint Petersburg State Pediatric Medical University, Professor E.K. Humanenko

Рис. 7. Президиум секции «Современные стратегии оказания экстренной и неотложной медицинской помощи в многопрофильном стационаре», слева направо: заместитель главного врача по медицинской части Мариинской больницы А.А. Андреевко, заместитель главного врача по медицинской работе Городской станции скорой медицинской помощи Л.Э. Ельчинская, заместитель главного врача по скорой медицинской помощи НИИ им. И.И. Джанелидзе А.И. Махновский, заведующий кафедрой экстремальной медицины, травматологии, ортопедии и военно-полевой хирургии СПбГПМУ, профессор Е.К. Гуманенко

Fig. 8. Head of the section "Outpatient and inpatient medical care — unity of approach, 20 years in the epicenter of public health in St. Petersburg", Head of the Department of Social Pediatrics and Health Organization of Saint Petersburg State Pediatric Medical University, Honored Scientist of the Russian Federation Professor V.I. Orel

Рис. 8. Руководитель секции «Амбулаторная и стационарная медицинская помощь — единство подхода, 20 лет в эпицентре здоровья населения Санкт-Петербурга», заведующий кафедрой социальной педиатрии и организации здравоохранения ФП и ДПО СПбГПМУ, заслуженный деятель науки РФ, профессор В.И. Орел



anniversary dates of the hospital departments. For example, one was dedicated to the 100th anniversary of the establishment of the otorhinolaryngology department. Materials of the past conference were published in the journal of St. Petersburg State Pediatric University "Medicine: Theory and Practice" Vol. 8, No. 4 for 2023.

CONCLUSION

The conference dedicated to the 220th anniversary of the Mariinsky Hospital acquainted the participants with modern views on the multidisciplinary approach in emergency and urgent medical care, up-to-date information on the latest

recommendations and algorithms of diagnosis and treatment, modern trends in the quality and safety of medical activity, ambulatory care and emergency medical care.

We hope that the experience of the conference can be applied by other medical organizations to illustrate the main problems and achievements of inpatient emergency and urgent medical care. The highlighted multidisciplinary experience of medical care is significant both for the entire health care system of the city of St. Petersburg and for Russia as a whole.

ADDITIONAL INFORMATION

Author contribution. Thereby, all authors made a substantial contribution to the conception of the study, acquisition, analysis, interpretation of data for the work, drafting and revising the article, final approval of the version to be published and agree to be accountable for all aspects of the study.

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Вклад авторов. Все авторы внесли существенный вклад в разработку концепции, проведение исследования и подготовку статьи, прочли и одобрили финальную версию перед публикацией.

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Fig. 9. Museum exhibition, pictured (from left to right) Associate Professor of the Department of General Surgery of St. Petersburg State Medical University L.D. Bechvaya and curator of the Museum of the Mariinsky Hospital A.V. Kovalevsky

Рис. 9. Музейная выставка, на фото (слева направо) доцент кафедры общей хирургии СПбГПМУ Л.Д. Бечвая и хранитель музея Мариинской больницы А.В. Ковалевский

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