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ANESTHESIOLOGY IN ODESSA: THE HISTORY OF DEVELOPMENT AND NOWADAYS ROUTES

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АНЕСТЕЗІОЛОГІЯ В ОДЕСІ: ІСТОРІЯ РОЗВИТКУ І НОВІ ПЕРСПЕКТИВИ

О.О. Тарабрін, А.С. Владика, О.С. Суслов, Д.С. Володичев, Р.Є. Сухонос, І.Л. Басенко, П.О. Тарабрін, Г. Балицька

У статті, що наведена нижче, викладені короткі відомості про розвиток анестезіологічної служби в Одесі і, зокрема, участі у цьому процесі кафедри анестезіології. Стаття буде цікава колегам, які цікавляться історією, хронографам, історикам і краєзнавцям Одеси та одеського регіону.

Ключові слова: анестезіологія, Одеса, кафедра, розвиток анестезіології в Одесі.

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The article below summarizes the development of the anesthesiology service in Odessa and, in particular, the participation of the Department of Anesthesiology in this process. The article will be interesting to colleagues who are interested in history, chronographs, historians and local historians of Odessa and the Odessa region.

Keywords: anesthesiology, Odessa, department, development of anesthesiology in Odessa.

From the very beginning of its life Odessa grew rapidly. From several tens of thousands of people of old Hadzhibei during the first 75 years [1], it reached 118 thousand people and became the third city of the Russian Empire, and the first among the old cities of Ukraine.

Through all its history, Odessa among the first responded to the World's innovations in science and technology. Same was with anesthesia: the first mention of its use in Odessa refers to about 1848, when M.I. Pirogov during his trip to Odessa personally demonstrated ethereal anesthesia [2]. Most likely, this happened at the First City Hospital, built in 1807. In the years 1856-1858 M.I. Pirogov, who at that time was the head of the Odessa educational district, continued to "seeing the whole crowd of sick people day by day." [3, 4].

In 1902 Second City Hospital was opened on Slobodka; there were used general anesthesia by inhalation of vapor and injection of solutions of narcotic drugs, local anesthesia by cocaine application, infiltration, conduction and regional Novocain injections [5, 6]. Odessa surgeons Y.V. Zilberberg, P.O. Nalivkin, N.A. Kukoverov were pioneers of local and conductive anesthesia use [7, 8, 9]. For inhalative anesthesia mostly chloroform through masks of Esmarch, Shimmelbush, Jyllard, and apparatus of Ombredana-Sadovenko was used. For non-inhalation anesthesia was widely used scopolamine-morphine. In 1909 a surgeon at the District Military Hospital in Odessa, N.A. Kukoverov defended his dissertation "Spinal Analgesia," in which he suggested that respiratory failure and blood pressure drop in spinal anesthesia had peripheral character. In the 1950s this hypothesis was confirmed clinically and experimentally by Odessa surgeon B.E. Frankenberg and his disciple S.O. Gheselin (author of the chapter on spinal and peridural anesthesia in the "Manual on Anesthesiology" [10, 11]).

In 20-30s years among surgeons a discussion about how to further develop anesthesia in the USSR had been unfolded. Taking some advantages for surgeons of rural hospitals, on IInd (1924) and IIIrd (1928) All-Ukrainian congresses of surgeons [10], the predominant role of local anesthesia in surgical practice was settled, but it didn't satisfy either surgeons or patients.

After the WW II in Odessa gas-liquid inhalation anesthesia devices by Mc Kesson appeared, supplied by the USA on the Lend-Lease, but the predominant method of anesthesia remained local anesthesia.

In the late 40's and early 50's in the Second City Hospital, which since 1932 was called the Regional Hospital, in the surgical clinic of Professor Y.M. Voloshin, appendectomy and herniotomy in some patients was selectively made under hypnosis "without a drop of Novocaine".

In the first half of the 1950's so called intubative anesthesia attempts were made, in particular, by the staff of the Department of General Surgery O.P. Docenko and V.V. Larin. At the end of the 1950s this type of anesthesia began to be used in the 411th District Hospital by L. N. Aryayev with assistance of Y.M. Zaltsman (the Main Anesthesiologist of the Israel army who later emigrated), and at the Marine Hospital by Y.N. Kryvchikov with assistance of students A.N. Kachmarskaya and L.N. Bistrova, in the Research Institute of Tuberculosis - B.I. Lvov.

The situation began to change in 1957 in the New City Hospital, which became the Regional Clinical Hospital later, two new surgical departments became the clinical base of the Department of General Surgery of Professor I.Y. Deineka. With his initiative in 1958, the department had an associate professor's course in anesthesiology, but all

the position were occupied by surgeons. The only professional anesthesiologist in the course was graduate student Y.M. Vedutov, who had provided anesthetic assistance in oncosurgical and thoracic interventions.

The beginning of the anesthesiology service organization in Odessa and the region should be addressed to 1958. This is the year when on the basis of the Ministry of Health USSR Order № 513 from 21.11.1957 "Measures to improve work in the field of Anesthesiology" on May 27, an order was issued on the Odessa Regional Health Department № 265 [12]. From the contents of the order it is clear that the specialists who prepared it have had no idea about anesthesiological and IC units function. Following an assessment by the Ministry of the above-mentioned, by order of the WHO № 270 of May 15, 1962 [13], organization of two resuscitation centers were suggested: at the Regional Clinical Hospital and at Emergency Care Hospital, as well as resuscitation centers at all surgical departments of city and district hospitals, maternity homes and dispensaries.

In 1962, in the Regional Clinical Hospital appeared one of the first models of a serial native apparatus "artificial kidney". The Heads of the Department of hemodialysis, founded in January 1964, were A.S. Vladyka. The 20 years experience became a basis for work on programmable dialysis treatment of chronic renal failure and subsequently proceeded with kidney transplantation [14]. In 1970 was created the first in Odessa unit of reanimation and intensive care.

Then anesthesiology and resuscitation service started to form in other medical institutions of the city (O. M. Felzhcher at the City Clinical Hospital № 1, A. M. Antselyevich in the City Clinical Faculty № 2, L. M. Aryayev in the Circuit Military Hospital № 411, A. P. Ilyashenko in the Basin Hospital and others) and in the districts of the region. By the time of 2000 in Odessa, as well as in all 26 administrative districts of the region anesthetic service was formed (only 234 anesthesiologists and the number of anesthetists without count).

In 2017 the service was represented by 8 intensive care units, 21 anesthetics departments with intensive care beds and 18 anesthetic departments without beds for intensive care.

In the late 1950s and 1960s, in the Soviet Union, Departments of Anesthesiology and Resuscitation began to establish in institutes for the improvement of doctors in Leningrad (B.S. Uvarov, 1958, V.L. Vanevsky, 1966), Moscow (Y.A. Damir, 1959), Kharkov (V.A. Arkatov, 1966), Kiev (A.I. Treschinsky, 1967).

In 1967 L.M. Aryaev was invited from the 411th District Military Hospital to the position of associate professor in the course of anesthesiology. He organized and (until 1976) headed the Department of Anesthesiology and Reanimatology.

Professor L. M. Aryaev took an active part in the organization of anesthetic services in Odessa, Nikolaev and Kherson regions, as well as in Moldova. He was the Chief anesthesiologist of the Odessa Regional Health Department, the Head of the anesthetic section of the Regional Scientific Society of Surgeons. He made an attempt to conduct postgraduate qualification course.

Chief Anesthesiologist of the USSR A.A. Bunyatyan in 1976 noted: "The training of students has also improved. At present, independent Departments of Anesthesiology and Resuscitation have been established at Moscow, Odessa, and Volgograd medical institutes, and docent courses are available at dozens of universities." The widespread opening of similar Departments of Medical Institutions began only after the issuance of the Ministry of Health USSR order n. 969 dated December 6, 1973 "Organization of

the Departments of Anesthesiology and Resuscitation in the medical institutes of the country.”

Vaslav Stacyunas was invited to chair the department in 1976. Professor V.P. Stacyunas is one of the first anesthesiologist in the USSR and a veteran of the WWII In Odessa he organized courses for primary specialization of anesthesiologist, intensive care physicians; organized and headed the Odessa Scientific Society of Anesthesiologists-Reanimatologists; he was co-author of the textbooks “Reanimatology” (1976) and “Anesthesiology and Reanimatology” (1979); a member of the Board of the All-Union and Ukrainian Scientific Societies of Anesthesiologists and Reanimatologists.

In 1981 temporarily the Head of the Department was associate professor A.Y. Bahar. The improvement of the anesthetic and resuscitation service of the Odessa Clinical Hospital, which began at the hospital on Slobidka, continued in the walls of the Odessa Clinical Hospital on the Kotovsky’s village from 1983.

From 1982 to 1995 Professor A.S. Vladyka was in charge of the department. Under his guidance, such a studying were performed: methods of anesthetic support in childhood (assistant professor O. V. Borozenko); protein exchange in critical states evaluation; new methods of shock diagnostics and evaluation of the efficacy of its treatment (associate professor M.P. Yuzvak); problems of intensive therapy of cranial trauma (associate professor O. Petelkaki). In cooperation (1983 - 1993) with the Department of Marine Medicine “Marine Doctor’s Guide” and other publications were published.

In 1988, postgraduate qualification courses were reorganized into an independent Department of Anesthesiology and Resuscitation of the Faculty of Therapy, headed by Professor P. M. Chuyev. Since 1992, pre-certification courses and internship training in specialties “Anesthesiology”, “Children’s Anesthesiology”, “Medicine of Emergency Conditions” have been organized [15]. In 1995, both departments were reorganized into Department of Anesthesiology and Intensive Care with postgraduate training. Professor P. M. Chuyev became the Chairman of the new department; however, in 2008 a severe illness cut the life and brilliant career of his.

Since 2008 Professor Oleg Tarabrin has become the Head of the Department [15]. Thanks to his efforts a Scientific school of Hemostasis was created in Odessa [16]. Under his leadership of international congresses, “Black Sea Pearl” and “Autumn meetings” in Odessa became annual events. During his ten-year cadence, worth noting the membership in the committee of the European Association of Anesthesiologists; this allowed to conduct since 2013 CEEA courses in Odessa twice a year, as well as to open 4 new CEEA centers - in Odessa, Kiev, Ternopil and the Dnipro. After the appointment of Tarabrin as consultant on simulation education in ONMedU, 9 simulation centers, which were established in 10 years, received a new round of development; as co-author with academician V.M. Zaporozhan, the book “Simulation medicine. Experience. Gaining. Perspectives.” was written [17]. In 2015, the department team had translated the sections of the Russian-language edition of “Miller’s Anesthesia” about hemostasis [18]. Nowadays, veterans of anesthesiology side by side with young anesthesiologists from all corners of our state. Traditionally, a significant place in the work of the Department is the education of future specialists and scientific organization of the students. It should be noted that over the past 40 years, students from more than 20 countries have received high-quality education on the basis of the Department of Anesthesiology and Intensive Care with the postgraduate training in ONMedU.

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