SHORT HISTORICAL REVIEW



Scientific and organizational achievements of Professor of Anatomy Henryk Kadyi – *Rector Vigilantissimus Universitatis Leopoliensis*

ANDRZEJ WINCEWICZ¹⁾, MONIKA TUREK-PIETRZYKOWSKA²⁾

¹⁾Non Public Health Care Unit, Department of Pathology (NZOZ Zakład Patologii Spółka z o.o.), Kielce, Poland ²⁾Pet's Health Centre – Veterinary Medicine (Centrum Zdrowia Pupila – Gabinet Weterynaryjny), Warsaw, Poland

Abstract

Henryk Kadyi (1851–1912) was educated in medicine at Jagiellonian and Vienna Universities, who deepened his studies in Leipzig to obtain associate professorship in descriptive anatomy at *Alma Mater Cracoviensis*, in 1878. He was elected Rector of Lvov University for years 1898–1899. Kadyi organized emerging Academy of Veterinary Medicine and Faculty of Medicine in Lvov. He equipped them with excellent anatomical facilities, e.g., remarkable collections of anatomical specimens. Kadyi worked out plans and such a detailed *curriculum* of higher studies in veterinary medicine, that it was raised to the ranks of academic discipline. He profoundly described accessory praehyoid and suprahyoid remnants of thyroid tissue and reasoned the anatomic term of *arteria radicularis magna* for artery of Adamkiewicz. Kadyi's social endeavors enabled women an access to higher education and university employment in 1895. His academic foresight, thrift and vigilance made Kadyi deserve a title of *Rector Vigilantissimus*.

Keywords: veterinary medicine, Lvov Faculty of Medicine, accessory thyroid remnants, arteria radicularis magna.

□ Biographical note

Henryk Karol Klemens Kadyi was born as a son of clerk Ludwik Kadyi and his wife Klementyna on 23rd May 1851, in Przemyśl, in a family of local intellectual elite, as his brother Jozef graduated medicine and Juliusz was elevated to Austro-Hungarian title Hofrat (Court Counselor) [1–3]. In 1869, he started studying medicine for one year until 1870, at Jagiellonian University in Cracow, but much of his education as medical student he spent at University of Vienna and graduated there with obtaining the title Doctor of Medicine, in 1875 [1–3]. In Austria, he improved his manual skills, particularly between 1873 and 1875, in the first place in a position of Anatomy Demonstrator at *Josephinum*, under supervision of Professor of Karl Langer (1819-1887), with a gain of a great proficiency in topographical anatomy. In meantime, he also practiced internal diseases in the main Viennese hospital, and trained in the Department of Ophthalmology headed by Carl Ferdinand Ritter von Arlt (1812-1887). He also trained at the Department of Surgery headed by Professor Christian Albert Theodor Billroth (1829–1894), in Vienna at the time [1–3]. He came back to Cracow to work under surveillance of Professor Ludwik Karol Teichmann (1823–1895), who highly treasured Kadyi's manual skills of preparatory art of anatomical specimens. In 1878, he obtained associate professorship in the field of human descriptive and comparative anatomy, on the ground of his Dissertation titled: "On the eye of mole in the aspect of comparative anatomy", at Jagiellonian University [4, 5].

Thanks to his training under direction of Ludwik Teichmann, an internationally recognized master of preparation of lymphovascular system, Kadyi made specimens of vasculature real masterpieces of anatomical technique at the highest level of the time [6]. His helpfulness for students was remarkable, as he well remembered he was also supported while being trainee. Namely, shortly after obtaining associate professorship, due to excellent appreciation of his work and academic skills by Professor Teichman and Professor J. Mayer – a President of Academy of Arts and Sciences (Akademia Umiejętności), he was awarded The Sniadecki Brothers' stipend for the most outstanding young scientists thanks to Seweryn Gałęzowski Foundation [celebrated Parisian surgeon Seweryn Gałęzowski (1801–1878)] that enabled him academic trip to Austria and Germany and his scholarship at the Leipzig Zoological Institute [5, 7]. His academic route was very ambitious and took relatively short period of time from to April 1879 to October 1879 [4]. It included a stay in Vienna, at the department of Professor Carl Friedrich Wilhelm Claus (1835–1899), eminent zoologist and professor of comparative anatomy, a great enthusiast of marine zoology, a Director of Oceanographic Research Station in Trieste and great opponent of Ernst Heinrich Philipp August Haeckel (1834-1919) [5]. Then, Kadyi moved to Prague to Professor Carl Toldt (1840-1920), whose Department of Comparative Anatomy (built between 1876–1879) impressed him very much later to affect designs of anatomical facilities in Lvov [5, 8]. Next, via Drezno, Kadyi visited Leipzig because Professor Claus highly esteemed Professor Karl Georg Friedrich Rudolf Leuckart (1822-1898), at the time [4]. In Leipzig, Kadyi got accustomed with functional solutions of building of Department of Anatomy, which were introduced by an inventor of microtome, Professor Wilhelm His (1831-1904) [5]. Next, Kadyi interacted well with all the

members of academic staff of Department of Zoology at Zoological Institute, which, at the time of Kadyi's visit, was about to be relocated to new buildings after being hosted in monumental Augusteum [5]. As Claus foretold Kadyi highly prized anatomical specimens prepared by Rudolph Leuckart [5]. Kadyi was so delighted that he also visited collections of comparative anatomy, which were kept in old settlements from the time of Professor Johann Friedrich Meckel (1781–1833) and in modern ones, which with great enthusiasm were shown to Kadyi's by Professor Hermann Welcker (1822-1897), Director of Anatomical Institute in neighboring Halle, since 1876. Unfortunately, Kadyi missed lectures of Oscar Hertwig (1849-1922) and Richard Wilhelm Karl Theodor Ritter von Hertwig (1850-1937), who were famous for renowned experimental embryology, because they spent that time in Italy [5]. On his travel route, he also failed to get accustomed with laboratory of Professor Ernst Heinrich Philipp August Haeckel, so Kadyi returned to Leipzig [5]. In Leipzig, Kadyi spent very fruitful time listening to lectures on general zoology by Rudolph Leuckart, speeches on invertebrate animals by Carl Chun (1852– 1914), a celebrated marine biologist and an expert of on cephalopods and plankton, proceedings on palentology of vertebrates by Hermann von Ihering (1850–1930) and fine lectures on embryology by Professor Wilhelm His. Kadyi was supported by great kindness and paternal care of Rudolph Leuckart [5]. Next, Kadyi visited Zoological Museum and Department of Anatomy in Berlin. Kadyi went to Hamburg, where he focused on Aquarium and Zoological Garden and Ethnographical Museum of Natural Sciences of J. C. Godeffroy [the so-called Museum Godeffroy, founded by Johann Cesar VI. Godeffroy (1813–1885), a wealthy trader and shipping magnate] with exceptional examples of fauna of Pacific islands and anthropology section [5]. With Leuckart recommendations, Kadyi paid short visits to Würzburg, Heidelberg, Strasburg and Munich and Innsbruck. Via Vienna, he entered Trieste, where he studied profoundly anatomy of sea life. On his return to Cracow, Kadyi visited laboratory of anatomist and zoologist Professor Franz Eilhard Schulze (1840-1921) [5]. Scientific trip of Professor Kadyi flourished with great experience and long lasting contacts and cooperation of Kadyi with eminent scientists of époque. His dynamical approach made him visit all the most celebrated centers of academic zoology and anatomy in German-speaking countries. His experience of that scholarship or travel grant he utilized in his further university work as constructor and founder of establishments of Academy of Veterinary Medicine and School of Medicine at the University in Lvov [5]. In 1881, he started working in Lvov [1-3]. Kadyi was an author of a preliminary general syllabus of university studies of veterinary medicine [6, 9]. Kadyi organized excellent anatomical facilities there. In years 1881-1894, he was a Professor of Descriptive Anatomy and Histology at Academy of Veterinary Medicine in Lvov and in year 1881–1890, he was a Professor of Pathological Anatomy and General Pathology there [1–3]. Being greatly engaged in foundation of higher veterinary and medical studies in Lvov, Kadyi rejected twice the offer of the Jagiellonian University to take over the position of Director of Department of Comparative Anatomy, in 1890, and

Descriptive Anatomy, in 1894 [1–3]. Instead, he directed the Department of Animal Anatomy at the Veterinary Academy of Medicine in Lvov [10]. Later, he consulted the construction projects of Lvov's buildings of Basic Medical Sciences of Faculty of Medicine, on Piekarska Street, in Lvov, particularly the edifice of Chairs of Anatomy and Histology. He contributed to design of a lecture hall, office and all rooms of descriptive anatomy with two postmortem dissecting rooms and proper equipment for preparation of student courses of anatomical studies. He was also in charge of initial equipment of Departments of Surgery and Internal Diseases. Being a master in anatomical preparation, he made and subsequently collected numerous anatomical specimens in Anatomical Museums of both Academy of Veterinary Medicine and Faculty of Medicine at Lvov University [1–3]. By detailed organization of the Academy, he vastly contributed to raising the veterinary medicine to the rank of university discipline in the Kingdom of Galicia and Lodomeria - the crown land of the Cisleithanian part of Austria-Hungary (1867–1918) [1–3]. Actually, on the initiative of Henryk Kadyi and his colleague Professor of Microbiology and Epizootiology Józef Szpilman (1855–1920), at Lvov Academy of Veterinary Medicine, veterinary medicine was raised to the ranks of academic discipline of the university level through the whole Austria-Hungary; his actions anticipated proper reforms of veterinary studies to aim that goal in the entire Empire [6, 9]. To propagate his idea in detail, Kadyi published on necessity of reforms of veterinary studies both in Polish and German, in 1890, in Lvov and, in 1891, in Vienna [11, 12]. He cooperated well with all the members of the Staff of Academy of Veterinary Medicine, which were selected on the ground of their qualifications with no prejudices to different faith or nationality. It is worth mentioning that Kady's great cooperator of Greco-Catholic faith (also born in Przemyśl, as Kadyi), Wołodymyr Kulczycki (1862–1936), became a Rector of Academy of Veterinary Medicine in the years 1917-1919. Later, Kadyi served as a Professor of Descriptive and Topographical Anatomy at the Faculty of Medicine at Lvov University from 1894 to 1912 [13]. He was in this period a main organizer of Department of Anatomy and greatly contributing co-organizer of units of other morphological sciences as Department of Histology and Embryology, later headed by Professor Władysław Szymonowicz (1869–1939) [14, 15]. Henryk Kadyi published even memory books as kinds of diaries of Veterinary Academy and Lvov Faculty of Medicine at in their statu nascendi - the first years of their functioning while he was a skillful organizer of Departments of Morphological Sciences at these high schools [9, 14, 15]. With great scrutiny, Kadyi reported on development and activity of Imperial and Royal Academy of Veterinary Medicine in Lvov, since its foundation in 1881 until the end of the academic year 1893/1894, in book publication. Henryk Kadyi was a Dean of Faculty of Medicine of the Lvov University, in the years 1896-1897 and 1911-1912 [1-3]. Due to his fundamental merits in organizational establishment of Departments of Basic Morphological Sciences and great engagement in functioning of the University, Kadyi was elected a Rector of Lvovian University

(Rector Magnificus Universitatis Leopoliensis), in the years 1898–1899 [1–3, 16].

He greatly contributed to the development of descriptive anatomy of blood vascular system [17, 18]. He was a great social activist of human rights. Namely, Henryk Kadyi and Professor of Neurophysiology, Adolf Abraham Beck (1863-1942), made an successful, official appeal to the ministry in Vienna to authorize admission of women to medical studies and their subsequent employment in scientific departments of the Faculty of Medicine, in 1895 [1–3]. He belonged to many Polish and foreign scientific Societies. In 1889, he was granted a Corresponding Membership of Academy of Arts and Sciences (Akademia Umiejetności), a prestigious institution founded in 1872 and inaugurated in 1873 in presence of Emperor Francis Joseph, since 1919 renamed as Polish Academy of Arts and Sciences (Polska Akademia Umiejętności) [1-3]. He was a President of Polish Nicolaus Copernicus Society of Natural Sciences (Polskie Towarzystwo Przyrodników im. Kopernika), from 1894 to 1895, and Editor of the Journal of this Society, titled "Cosmos" [1-3]. Kadyi actively participated in the meetings of the Section of Anatomy and Zoology, particularly during the 10th Congress of Medical Doctors and Polish Natural Sciences, in 1907 [19]. Henryk Kadyi contributed to foundation and presided over Lvovian Medical Society (Polish: Towarzystwo Lekarskie Lwowskie), which finally constituted as independent association on 30th November 1900, on the way of its evolution from Society of Galician Medical Doctors since 1867 (Polish: *Towarzystwo Lekarzy Galicyjskich*) on initiative of Professors Władysław Antoni Gluziński (1856–1935) and Roman Rencki (1867–1941) [1–3]. Kadyi was also a President of Society of Veterinary Medicine in Lvov [1–3].

He was married with Rozalia, with the only one daughter, Jadwiga Kadyi, who ended her life tragically with her husband Jan Jerzy Kwiatkowski, in December 1917 [1-3]. Thanks to his widely recognized skills of an eminent anatomist and a master of dissection as well as fixation of a human body, Kadyi embalmed bodies of distinguished Galician aristocrats, e.g., Polish naturalist, Count Włodzimierz Ksawery Tadeusz Dzieduszycki (1825– 1899), founder of Museum of Natural Sciences in Lvov, Honorary Member of the National Museum of Polish Society in Rapperswil, since 1890, the Honorary Citizen of the City of Lvov, since 1877 and Doctor Honoris Causa of Lvov University, since 1894, promoted by Professor Benedict Dybowski (1833-1930). Henryk Kadyi died on October 25, 1912, in Lvov, due to infection acquired at work during embalming the cadaver of Count Stanisław Badeni, Marshall of Galician Country Parliament [1–3, 20]. He was buried in the Łyczakowski (Lychakiv) Cemetery - a necropolis of the intellectual elite of the city [1-3, 20].



Professor Henryk Kadyi (1851–1912).



Lvov University Rector's Scepter with Imperial Crown on its top, made by Eduard Schiffer in 1862, in Vienna.



Prewar Institute of Anatomy, Histology and Pathology of Lvov University, at Piekarska Street.

☐ Kadyi's scientific output with its practical impact

Henryk Kadyi focused on a detailed description of praehyoid et suprahyoid accessory remnants of thyroid tissue (he used "Gruczoł tarczykowy" today "tarczyca" for Polish translation of Latin term of glandula thyroidea or thyroid) on the way of descent of thyroid at its fetal way from its embryonic site of foramen caecum, at the base of the tongue (originally, glandula praehyoides et suprahyoides) [21]. Kadyi published these results of his studies on thyroid glands in vicinity of hyoid bone in Archiv für Anatomie und Entwickelungsgeschichte, a journal of pivotal importance, while being on scholarship

at Professor Leuckart in Leipzig, what he recorded in his proceedings after return to Cracow, in 1879 [21, 22]. At the time, Kadyi also dealt with and commented on transformation of American *Spicauta*, as well he prepared the oriental cockroaches (*Blatta orientalis*) [5]. He benefited a lot from Carl Georg Friedrich Rudolf Leuckart, whose "Textbook on Human Parasites (*Menschlichen Parasiten*)" made the way of Parasitology as a separate academic discipline [5]. At his Vienna stop on his route on foreign anatomical and zoological academic centers, in 1878, during the Sniadeckis' scholarship, Kadyi also renowned his friendship with Emil Zuckerkandl (1849–1910), who deepened his studies of thyroid glands as Kadyi did. Since he discerned the "*processus posterior glandulae*"

thyreoideae", known as "Zukernadl tubercle", in 1902, Emil Zukerkandl is remembered as descriptor of this anatomical landmark for localization of the recurrent laryngeal nerve and the superior parathyroid [5, 23]. Kadyi's and Zukerkandl publications on thyroid were issued almost simultaneously and supplement one another, presenting a converging point of view on the anatomy of thyroid [5, 23] Namely Kadyi's contribution to topographical anatomy of neck was particularly famous for his fine description of accessory thyroid remnants as glandula praehvoides et suprahvoides, at the area of downward passage of thyroid in front of the hyoid bone in the fetal descent of thyroid from foramen caecum of tongue to its normal localization, at the level of first rings of the trachea, in close proximity to laryngeal cricoid cartilage and thyroid cartilage in adulthood in his mentioned Leipziger publication, in 1878 [21, 22]. His permanent anatomical findings were propagated later and his heritage was for sure an inspiration for numerous Lyovian practitioners, like Professor of Surgery Romuald Węgłowski (1876–1935), author of celebrated textbook titled "Operative Surgery" (Chirurgia Operacyjna), from 1919, who graduated medicine in Moscow and from 1921 was living in Lvov working as the chief of Surgery Department at Lyczakowski Hospital) [24, 25].

Wenglowski (original transcription of the surname of the author from German paper) addressed to head and neck surgery with numerous citations of his paper on neck fistulas and cysts, particularly the most eminent one by Edward F. Ziegelman, in his finely concise paper devoted to lingual goiter in Archives of Otolaryngology, in 1932 [26–28]. Ziegelman gave there one of the finest and simplest descriptions of lingual goiter stating that at the fourth week of intrauterine growth, diverticulum is formed in the midline of the body and posterior to tuberculum impar and it undergoes solid growth downward the neck to form thyroid gland consisted of two lateral lobes and an isthmus with possible additional central or pyramidal lobe, which preserves connection in the form of progressively obliterated thyroglossal duct that forms pyramidal lobe at its lower pole and *foramen* caecum at its upper end at the base of tongue – the site of origin of the fetal thyroid. Ziegelman stated thyroid remnants could be found on the course of thyroglossal duct [28]. Wenglowski analyzed anatomical and embryological examinations of 246 cadavers and 75 embryos and Kadyi could have been excellent consultant for these cases [26, 27]. Actually, in 1912, Wenglowski reported the presence of the lateral thyroid anlage and lateral lobe ducts with notion that preserved partial patency of central thyroglossal duct could cause development of cysts and fistulas in the neck [26]. Wenglowski found small thymic cysts and rests in the necks both of adults as well infants in autopsies procedures, which certainly were affected by scientific soundness of Henryk Kadyi, as it is hardly impossible to assume that Wenglowski was not acquainted with Kadyi' publication on accessory remnants of thyroid tissue, of the year 1878, which belonged to the canon of anatomic knowledge of medical doctors in Poland, at the turn of 19th and 20th century [21]. In his permanent anatomical conclusions, Wenglowski believed that lateral cervical cysts developed from the 3rd pharyngeal pouch (thymopharyngeal duct) to be cited even in papers in the end of 20th century [26, 29]. On such a huge material, Wenglowski constructed theory of the etiology of branchial cysts and sinuses, which was recognized and re-established by Meyer [26, 30]. Similarly to Zukerkandl in the field of neck anatomy, Kadyi supplemented in purely morphological aspect discoveries of Professor of General and Experimental Pathology, Albert Wojciech Adamkiewicz (1850–1921), another eminent member of the Department of Anatomy at Jagiellonian University, at the time [31], Being a diligent follower of Ludwik Teichmann, Henryk Kadyi described a few variants of vasculature, in 1881, which were variations of normal vascular system (1881) [32, 33]. In his next monograph entitled "On Blood Vessels of the Human Spinal Cord" (in Polish version dated on 1888 and in German version dated on 1889), Kadyi stated that spinal cord with its spinal nerve roots are supplied by two to 17 anterior radicular arteries (mean eight arteries), which is consent in updated state of art nowadays [17, 18, 31]. The actuality of Kadyi's publication is so permanent that it was cited in 21st century in a paper on fetal vasculature of spinal cord to conclude that in fetal anterior spinal cord vein ran in the same manner as in adults in dual setting in lateral or ventral vicinity of the homoname artery [17, 18, 34]. Kadyi thought that there were 11 to 23 posterior radicular arteries [17, 18]. Currently, it is revealed that there is a smaller number of posterior radicular arteries and their number ranges from four to eight [17, 18, 31]. The largest anterior radicular (anterior segmental medullary) artery is called arteria radicularis magna, which sprouts typically from a left posterior intercostal artery, at the level of the 9th to 12th intercostal artery, which branches from the aorta, and supplies the lower two-thirds of the spinal cord via the anterior spinal artery [31]. Henryk Kadyi reasoned the anatomic term of arteria radicularis magna (other synonyms currently in use: great anterior radiculomedullary artery, arteria radicularis anterior magna, major anterior segmental medullary artery, great anterior radiculomedullary artery, great anterior segmental medullary artery), instead of primarily given name arteria spinalis magna for the largest anterior segmental medullary artery of lumbar spinal cord named eponymously artery of Adamkiewicz, after its discoverer [17, 18, 35-38]. Adamkiewicz and Kadyi conducted studies on spinal cord, separately on the request of Teichmann, with a greater benefit for the science as their master believed [31]. Actually, Adamkiewicz and Kadyi took advantage of a novel method of processing vascular preparations of Teichman's original recipe [37]. In this course, Adamkiewicz happen to accuse Kadyi of plagiarism of Adamkiewicz discoveries relating vasculature of spinal cord. The artery of Adamkiewicz was primarily named arteria spinalis magna. In response, Kadyi argumented for renaming the vessel arteria radicularis magna, as he stated that adjective spinalis is more related in meaning to vertebralis and refers more to costal vertebral column, also known as the backbone or spine, than to nervous tissue of the spinal cord. Kadyi also changed a term crux vasculosa into rami anastomotici arcuati. It is assumed that Kadyi's anatomical terms are more fitting than primary ones of Adamkiewicz's authorship.

Anyway, Adamkiewicz got irritated with remarks of Kadyi and even unjustly accused Kadyi of plagiarism, which caused lots of confusion in front of Kadyi's reputation of academic honesty and anatomical skillfulness [17, 18, 39]. Henryk Kadyi also published a lot on comparative anatomy of domestic animals, with special notion on the remnant of *musculus pronator teres* in a horse, as well as joint surfaces of the elbow joint, in 1892 [40].

One of his great merits was introduction of appliance of formalin in fixation of human cadavers, in Lvov [41]. In his written work in German, he described preservation of human body with injection of formalin into cadavers as an efficient way of inhibition of putrefaction [41]. Kadyi propagated a technique of staining of nervous system, with application of heavy metal salts [42, 43]. He presented a method of staining of the gray matter of the brain and the carmine core after treatment with uranyl acetate, in Polish Archives of Biological and Medical Sciences (*Polskie Archiwum Nauk Biologicznych i Lekarskich*), which he both edited and published with his extensive involvement from 1901 to 1907 [44, 45].

In his microscopic and macroscopic evaluations, Kadyi commented on organization of cell and critically reviewed knowledge about cellular and morphological components of the body, in 1892 [46].

His scientific activity certainly inspired next generations of Lvovian histologists, *e.g.*, Professor Bolesław Jałowy (1906–1943), who published on innervations of various anatomical structures with special issue to silver staining technique and experimentally induced argyria (accumulation of silver salts) in animal species [47].

→ Personality of Henryk Kadyi

Among his academic colleagues, he was highly prized as a very skilled scientist and organizer. His appearance was considered a bit eccentric one, though. In memories of Lvovian dermatologist and later Professor of Wroclaw Medical University, Henryk Mierzecki (1891–1977) described Henryk Kadyi from his perspective of student of the Faculty of Medicine in the second decade of 20th century [48, 49]. Namely according to Mierzecki, Kadyi belonged to prominent scholars of original appearance with long sideburns and pince-nez spectacles, always coming to Department of Anatomy on a bicycle regardless of the weather, even in the rain... equipped with umbrella [48]. His outlook was for sure original but his goodhearted nature remains even more exceptional nowadays. Kadyi watched over Faculties of Medicine and Veterinary Medicine in Lvov with such a great care, foresight, thrift and vigilance that he merits well-deserved Latin title of Rector Vigilantissimus. On inscription on his tomb, at Lychakiv Cemetery in Lvov, it is written: "A man of spotless reputation, he loved homeland and science over all the other things. He passed by well doing". Streets of Przemyśl, Jasło and Lvov bear the name of Henryk Kadyi, as a way of commemoration of this proficient academic organizer, open-minded scientist and a great scholar [49, 50]. He was also an example to follow for generations of medical students and doctors of the King Jan Kazimierz University in Lvov (Polish: Uniwersytet Jana Kazimierza – *UJK*), as well as next eminent Professors of Anatomy like Edward Loth (1884–1944), who cited Kadyi's studies on peripheral nerves in his esteemed textbook that was a part of the most famous and comprehensive Polishwritten anatomy titled "Bochenek's Anatomy" [51, 52]. As Romanian eminent histologist Professor Iuliu Moldovan (1882–1966), Henryk Kadyi was one of numerous scientists that underwent excellent training at Vienna, the state capital city, at the time of Austria-Hungary and this education had a great influence on universality of academic impact of scholars like him [53].

Acknowledgments

Associate Professor Andrzej Wincewicz dedicates this biographical paper to his esteemed predecessor in the position of the Director of Department of Human Anatomy of UJK, Professor Piotr Chłosta, currently the President of Polish Society of Urology and Head of Urology Department of UJ in Cracow, as well as the Surgeon of the author's Father, Józef Wincewicz (who served long decades as a specialist of internal diseases and Head of Hospital Department in Kielce and Czerwona Góra).

References

- Zawadzki J. Professor Henryk Kadyi obituary [Prof. Henryk Kadyi (Wspomnienie pośmiertne)]. Med i Kron Lek, 1912, 47(44):892–893.
- [2] Pruszyński J. Henryk Kadyi (obituary) [Henryk Kadyi (Wspomnienie pośmiertne)]. Gaz Lek, 1912, 47(45):1263–1270.
- [3] Kostanecki K. Late Henryk Kadyi (obituary) [Śp. Henryk Kadyi]. Przeg Lek, 1912, 51(45):631–634.
- [4] Kadyi H. O oku kreta pospolitego. (*Talpa europaea*) pod względem porównawczo-anatomicznym, napisał Dr. ... Z dwiema tablicami. (Odb. z IV tomu Pamiętnika Wydziału Matem.-przyrodn. Akademii Umiejętności). Kraków, druk. Uniwersytetu Jagiellońskiego, 1878; About the eye of a mole. (*Talpa europaea*) in comparative and anatomical terms, wrote Dr. ... With two tables. (Retrieved from the fourth volume of the Journal of the Department of Mathematical Sciences). Krakow, Jagiellonian University Press, 1878.
- [5] Ergetowski R. [Supplementary studies of H. Kadyi at the Leipzig University]. Arch Hist Med (Warsz), 1979, 42(3):309–315.
- [6] Szpilmann J. Prof. dr. H. Kadyi. Przegląd Weterynarski, 1912, 12:457–464.
- [7] Resolution to grant H. Kadyi scholarships. Śniadeckich. Yearbook of the AU Board in Krakow, 1879, 15–16 [Uchwała o przyznaniu H. Kadyi stypenium im. Śniadeckich. Rocznik Zarządu AU w Krakowie, 1879, 15–16].
- [8] Jagiellonian Archives in Cracow, No. DXXX1 H. Kadyi papers Letter to L. Teichmann from d. 04/24/1879. Archiwum UJ w Krakowie syg. DXXX1 Papiery H. Kadyiego List do L. Teichmanna z dn. 24.04.1879.
- [9] Kadyi H. Rozwój i działalność c. k. szkoły weterynaryi we Lwowie od jej założenia w r. 1881 aż do końca roku szkolnego 1893/4. Lwów, nakł. c. k. Szkoły weterynaryi, I Związkowa Drukarnia, Lwów 1895. Kadyi Henryk (1851–1912). Development and activity of the c. Lviv Veterinary School since its foundation in 1881 until the end of the 1893/4 school year [Rozwój i działalność c.k. Szkoły Weterynaryjnej we Lwowie od jej założenia w r. 1881 aż dokońca roku szkolnego 1893/94] Lwów Professor of the University, former professor of veterinary schools in Lviv. Lviv, overlap. C. K. Veterinary Schools, 1st Union Printing House, 1895, Lwów, nakł. c. k. Szkoły weterynaryi, I Związkowa Drukarnia, Lwów.
- [10] Kadyi H. Preliminary lecture by Prof. Dra Henryk Kadyi when taking anatomy cathedral in the Lviv School of Veterinary Medicine on 29 November 1881. (Revision of the Medical Review). B. m. B. (Cracow, Jagiellonian University, 1882) Kadyi Henryk (1851—1912). Wykład wstępny Prof. Dra ... przy objęciu katedry anatomii w Lwowskiej szkole weterynaryi dnia 29 listopada 1881. (Odb. z Przeglądu Lekarskiego). (Kraków, druk. Uniw. Jag., 1882).

- [11] Kadyi H. O potrzebie zasadniczej reformy studyów weterynaryi napisał Dr. ... Profesor c. k. szkoły weterynaryi we Lwowie, Docent Uniwersytetu Lwowskiego, Członek-korespondent Akademii Umiejętności w Krakowie, Prezes galic. Towarzystwa Weterynarskiego. Lwów, nakł. Galic. Towarzystwa Weterynarskiego, Drukarnia Ludowa, 1890; About the need for a fundamental reform of the veterinary studies, Dr. ... wrote. Professor of veterinary school in Lviv, Associate Professor of Lviv University, Correspondent of the Academy of Arts in Cracow, President of the Academy. Veterinary Society. Lviv, overlap. Galic. Veterinary Society, Ludowa Printing House, 1890.
- [12] Kadyi H. Ueber die Nothwendigkeit des thierärztlichen Studiums. M. Perles, Wien, 1891; Ueber die Nothwendigkeit einer durchgreifenden Reform des thierärztlichen Studiums von Dr. Prof. ... An der k. K. Thierarzneischule in Lemberg. (Separatabdruck aus der Oesterreichischen Monatsschrift für Thierheilkunde). M. Perles, Wien, 1891.
- [13] Kadyi H. The first Lecture by Prof. Dra ... in the new Department of Descriptive Anatomy of the Faculty of Medicine of the University of Lvov on October 13, 1894. (Revision of the Medical Review). {Krakow} 1894. Pierwszy wykład Prof. Dra ... w nowym Zakładzie anatomii opisowej Wydziału Lekarskiego Uniwersytetu Iwowskiego w d. 13 października 1894. (Odb. z Przeglądu Lekarskiego).
- [14] Kadyi H. The outline of history of the Faculty of Medicine in Lvov [Rys dziejów Wydziału lekarskiego we Lwowie]. Now Lek [Medical News], 1906, 18(6):284–290.
- [15] Kadyi H. The outline of history of the Faculty of Medicine in Lvov [Rys dziejów Wydziału lekarskiego we Lwowie]. Now Lek [Medical News], 1906, 18(7):321–330.
- [16] Kadyi H. Przemówienie rektora dr. ... przy inauguracyi roku akademickiego 1898/9 na Wszechnicy Lwowskiej. Lwów, druk. Wł. Łozińskiego, 1898; Speech of Rector Dr. ... at the inauguration of the academic year 1898/9 at Lviv University. Lviv, print. On. Lozinski, 1898.
- [17] Kadyi H. O naczyniach krwionośnych rdzenia pacierzowego ludzkiego. Na podstawie własnych badań wykonanych w Instytucie Anatomicznym Uniwersytetu Jagiellońskiego, zostającym pod kierownictwem Prof. Dra Ludwika Teichmanna napisał Dr. ... b. asystent i docent Uniwersytetu Jagiellońskiego, c. k. prof. zwycz. anatomii w Szkole Weterynaryi we Lwowie. Z 10 tablicami chromolitograficznemi. (Odb. z t. XV Pamiętnika Wydziału Matematyczno-przyrodniczego Akademii Umiejętności). Kraków, druk. Uniwersytetu Jagiellońskiego, Gubrynowicz i Schmidt we Lwowie, 1888; About the blood vessels of the human spinal cord. Based on his own research performed at the Institute of Anatomy of the Jagiellonian University, under the direction of Prof. Dr. Ludwik Teichmann wrote Dr. B. Assistant and Lecturer of the Jagiellonian University, c. custom. Anatomy at the Veterinary School in Lviv. With 10 chromolithographic plates. (Ref. from the XVth of the Diary of the Faculty of Mathematics and Natural Sciences Academy). Krakow, printing. Jagiellonian University, Gubrynowicz and Schmidt in Lviv, 1888.
- [18] Kadyi H. Über die Blutgefasse des menschlichen Ruckenmarkers. Gubrynowicz & Schmidt, Lemberg, 1889.
- [19] Kadyi H. Proceedings of section of anatomy and zoology. 10th Congress of medical doctors and Polish natural sciences in Lvov. [Sprawozdanie z obrad sekcyi anatomiczno-zoologicznej. X Zjazd lekarzy i przyrodników polskich we Lwowie]. Now Lek [Medical News], 1907, 19(9):472–478.
- [20] Nusbaum-Hilarowicz J. Teichmann Ludwik and Henryk Kadyi in the book titled: "In the footsteps of homeland science" [Teichmann Ludwik i Henryk Kadyi. W książce tego samego autora pt. Śladami Nauki Ojczystej]. Warszawa, 1916, 205–213.
- [21] Kadyi H. Über accessorische Schilddrüsenläppchen in der Zungenbeigegend (Glandula praehyoides et suprahyoides) von Dr ... Prosector und Privatdozent an der Krakauer Universität. (Separat-Abdruck aus dem Archiv für Anatomie und Phisiologie Anathomische Abtheilung, Jahrgang 1878). Verlag von Veit & Comp., Leipzig, 1878.
- [22] Kadyi H. About accessory thyroid glands in the region of hyoid bone. Report AU, 1879, 6(37). [O gruczołach tarczykowych dodatkowych w okolicy gnykowej sprawozdanie, AU, 1879, 6(37)]
- [23] Zuckerkandl E. Nebst Bermerkungen über die Epithelkorperchen des Menschen. Anat Hefte, 1902, LXI:61.

- [24] Stryga W, Witkowski M. Romuald Wegłowski. Mater Med Pol, 1992, 24(4):273–275.
- [25] Durakiewicz M, Jabłoński M, Zarębska A. Romuald Węgłowski (1876–1935) – Orthopaedic surgeon, forgotten pioneer of limb saving tumour surgery. Ortop Traumatol Rehabil, 2017, 19(2):191–200.
- [26] Wenglowski R. Über die Halsfisteln and cysten. Arch Klin Chir, 1912, 98:151–208.
- [27] Wenglowski R. Über die Halsfisteln und Cysten. Arch Klin Chir, 1913, 100:789–892.
- [28] Ziegelman EF. Lingual goiter. Arch Otolaryngol, 1932, 16(4): 496–505.
- [29] Golledge J, Ellis H. The aetiology of lateral cervical (branchial) cysts: past and present theories. J Laryngol Otol, 1994, 108(8): 653–659
- [30] Meyer HW. True branchiogenic cyst and fistula of the neck. Arch Surg, 1937, 35(4):766–771.
- [31] Sokołowska-Pituchowa J. Two monographs on the spinal cord vascularization. Folia Morphol (Warsz), 1980, 39(1):1–8.
- [32] Kadyi H. Several cases of vascular system deviations [Kilka przypadków zboczeń układu naczyniowego]; Kadyi H. Several cases of vascular system deviations. (Reflections on the 8th Session of the Mathematical Department-Academic Skills.) Krakow, printing. Univ. Jag., 1881. [Kilka przypadków zboczeń układu naczyniowego. (Odb. z t. VIII Rozpraw Wydz. matem.-przyr. Akademii Umiej.). Kraków, druk. Uniw. Jag., 1881].
- [33] Kadyi H. Prof. Dr Ludwik Teichmann. (Odb. z Przeglądu Lekarskiego). Kraków, druk. Uniwersytetu Jagiellońskiego, 1895.
- [34] Zawiliński J, Zagórska-Świeży K, Składzień J. The venous system of the human foetal spinal cord. Scanning electron microscope of vascular corrosion casts. Folia Morphol (Warsz), 2014, 73(2):139–142.
- [35] Adamkiewicz A. Die Blutgefässe des menschlichen Rückenmarkes. I. Teil: Die Gefässe der Rückenmarkssubstanz. Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften, Mathematisch-Naturwissenschaftliche Classe, Wien, 1881, 84:469–502.
- [36] Adamkiewicz A. Die Blutgefässe des menschlichen Rückenmarkes. II. Teil: Die Gefässe der Rückenmarksoberfläche. Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Classe, Wien, 1882, 85:101–130.
- [37] Skalski JH, Zembala M. Albert Wojciech Adamkiewicz: the discoverer of the variable vascularity of the spinal cord. Ann Thorac Surg, 2005, 80(5):1971–1975.
- [38] Kowalczyk J. Albert Wojciech Adamkiewicz and his artery. S Afr Med J, 2002, 92(9):702.
- [39] Koehler PJ, Bruyn GW, Pearce JMS (eds). Neurological eponyms. Oxford University Press, New York, 2000, 386.
- [40] Kadyi H. On comparative anatomy of domestic animals. I. What is the remnant of musculus pronator teres in a horse. II. About joint surfaces of the elbow joint. With table I and 2m figures. (Retrieved from volume XXVI Thesis, Department of Mathematical-Natural Sciences Academy). Kraków, op. Academy of Skill, Main Composition at Bookshop of Polish Publishing House, Jagiellonian University Press, 1892; Przyczynki do anatomii porównawczej zwierząt domowych. I. Jaki jest szczątek zanikłego musculus pronator teres u konia. II. O powierzchniach stawowych stawu łokciowego. Z tablicą I i 2ma rycinami. (Odb. z tomu XXVI Rozpraw Wydz. Matemat.-przyrod. Akademii Umiejętności). Kraków, nakł. Akademii Umiejętności, Skład główny w księgarni Spółki Wydawniczej Polskiej, druk. Uniwersytetu Jagiellońskiego, 1892.
- [41] Kadyi H. Das Formaldehyd im anatomischen Institute (der Lemberger Universität). Polnisches Archiv für biologische und medizinische Wissenschaften, 1901, 1:16–32.
- [42] Kadyi H. Ueber die Färbung der nervösen Centralorgane nach Beizung mit Salzen schwerer Metalle [O barwieniu ośrodków nerwowych przy pomocy zaprawy (bajcowania) solami metali ciężkich (1900)]. Polnisches Archiv für biologische und medizinische Wissenschaften, 1901, 1:55–88.
- [43] Kadyi H. O barwieniu ośrodków nerwowych. Gaz Lek, 1912, 47(21):652–655.
- [44] Kadyi H. Method of staining the gray matter of the brain and core of carmine after uranium acetate pretreatment (1907) [Metoda barwienia szarej istoty mózgu i rdzenia karminem po zaprawieniu octanem uranowym] (1907).

- [45] Kadyi H. Polish Archives of Biological and Medical Sciences. Edited by prof. Dr. Henryk Kadyi. Publishing House of H. Altenberg (Lviv). Lviv: Nakl. Founders, 1901–1907 (Lwow: Major composition at H. Altenberg Bookshop). Vol. 1, issue 1 (1901)–Vol. 3, issue 1/3 (1907) [Polskie Archiwum Nauk Biologicznych i Lekarskich / pod red. prof. dra Henryka Kadyi'ego. Wydawnictwo Księgarni H. Altenberga (Lwów). Lwów: Nakł. Założycieli, 1901–1907 (Lwów: Gł. skład w Księgarni H. Altenberga). Tom 1, zesz. 1 (1901)–Tom 3, zesz. 1/3 (1907). Polnisches Archiv für biologische und medizinische Wissenschaften; in German; Bd. 1, H. 1 (1901)–Bd. 3, H. 1/3 (1907)].
- [46] Kadyi H. On cell organization, a critical review of recent research on cell components and morphological components of the body [O organizacyj komórki, krytyczny pogląd na nowsze badania o składnikach komórek i ostatecznych morfologicznych składnikach ustrojów]. (Cosmos). 1st Union Printing House, Gubrynowicz i Schmidt, Lvov, 1892 [(Odb. z Kosmosu). I Związkowa Drukarnia, Gubrynowicz and Schmidt, Lwów. 1892].
- [47] Wincewicz A. Pro Memoria. Professor Bolesław Jałowy (1906–1943): Mortui viventes obligant the livings are obligated to the dead. Rom J Morphol Embryol, 2016, 57(2 Suppl):899–901.

- [48] Mierzecki H. Times and climates: memories of the doctor, 1891–1970. Czasy i klimaty: wspomnienia lekarza, 1891– 1970. Independence and Memory [Niepodległość i Pamięć], 13/3 (24), 268–297.
- [49] Wiczkowski J. Lvov its development and cultural status, and a city guide, Lvov, 1907, p. 176 [Lwów – jego rozwój i stan kulturalny oraz przewodnik po mieście, Lwów, 1907, s. 176].
- [50] Draus J. The King Jan Kazimierz's University in Lvov from 1918 to 1946. A portrait of borderland University [Uniwersytet Jana Kazimierza we Lwowie 1918–1946. Portret kresowej uczelni]. Księgarnia Akademicka, Kraków, 2007, 38.
- [51] Kadyi H. On some abnormalities of the roots of human sacral nerves [O niektórych nieprawidłowościach korzeni nerwów krzyżowych u człowieka]. Przegl Lek [Medical Review], 1888, 27:461.
- [52] Loth E. On peripheral nerves [Nauka o nerwach obwodowych]. In: Ciechanowski S (ed). Bochenek's Anatomy. 1st edition, 4th part, Polish Academy of Arts and Sciences (Polska Akademia Umiejętności), 1925, 360 (citation on p. 212).
- [53] Bârsu C. Analysis of Professor Ioan Drăgoiu's Opening Lecture at the Chair of Histology from the Cluj Faculty of Medicine, Romania. Rom J Morphol Embryol, 2015, 56(4): 1549–1554.

Corresponding author

Andrzej Wincewicz, MD, PhD, Associate Professor of Pathology, FEBP (Fellow of European Board of Pathology), Department of General Pathomorphology, Medical University of Bialystok, Specialist Medical Practice – Pathologist, Non Public Health Care Unit, Department of Pathology (NZOZ Zakład Patologii Spółka z o.o.), Kielce, ul. Jagiellońska 70, 25–734 Kielce, Poland; Phone +48 41 368 47 87, Fax +48 41 366 17 81, e-mails: ruahpolin@yahoo.com, andwinc@gmail.com

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