

Trends in the development of surgical endocrinology in Ukraine

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Surgical endocrinology in Ukraine has a 40-year history, and the Institute of Endocrinology and Metabolism in Kiev, Ukraine, plays a leading role, carrying out fundamental and clinical investigations into the pathogenesis, diagnostic methods, pharmacotherapy, and surgical treatment of thyroid, parathyroid, gonad, adrenal, pancreas, pituitary disorders, and improving methods of endovascular surgery, microsurgery, and transplantology. Thyroid carcinogenesis and developing new methods of treatment of radiation-induced thyroid cancer in Ukraine population affected by the Chernobyl catastrophe, is a priority trend. A National Registry of thyroid cancer has been established. A long-term Ukrainian-American Thyroid Project representing a follow-up of thyroid status in radiation-exposed Ukraine population has been implemented. Methods of treatment of Graves' disease, parathyroid disorders, adrenocortical cancer are reviewed. The Department of Surgery of the Institute has the greatest experience of adrenal tumor therapy in Ukraine. Priority schemes of treatment of malignant adrenal tumors were developed. Over the last years, up-to-date minimally invasive and video-assisted surgical techniques were introduced, allowing to reduce treatment duration with a minimal number of complications. Over 35,000 endocrine operations have been performed. An electronic Registry of endocrine patients has been established at the Institute, comprising over 160,000 cases. Original investigations into focal thyroid pathology were conducted, including increase and decrease rates of focal thyroid lesions, disappearance and features of benign and malignant thyroid tumors. Focal thyroid lesions were found to disappear in $0.2 \pm 0.06\%$ of cases, and mathematical expectation of their increase or decrease was found to be 5.6 ± 0.01 and 6.2 ± 0.01 mm/year, respectively.

Biography

Academician Mykola D. Tronko, Director of the V.P. Komisarenko Institute of Endocrinology and Metabolism in Kiev, has completed his Academic degree of Candidate of Medical Sciences in 1971, Doctor of Medical Sciences (specialty: Endocrinology) in 1984, Professor in 1989, Corresponding Member of the National Academy of Sciences of Ukraine (Specialty: Radiation Medicine) in 1992, Corresponding Member of the Academy of Medical Sciences of Ukraine (Specialty: Endocrinology) in 1993, Full member of the National Academy of Medical Sciences of Ukraine (Specialty: Radiation Endocrinology) in 2010. He has published more than 600 works.

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