

Turkish Neurosurgery

Official Journal of the Turkish Neurosurgical Society



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Vena Cava Filters are not Superior to Low Molecular Weight Heparin in Venous Thromboembolism Prophylaxis: A Study on Long-Term Immobilized Neurosurgical Patients

The Role of Wrist Magnetic Resonance Imaging in the Differential Diagnosis of the Carpal Tunnel Syndrome

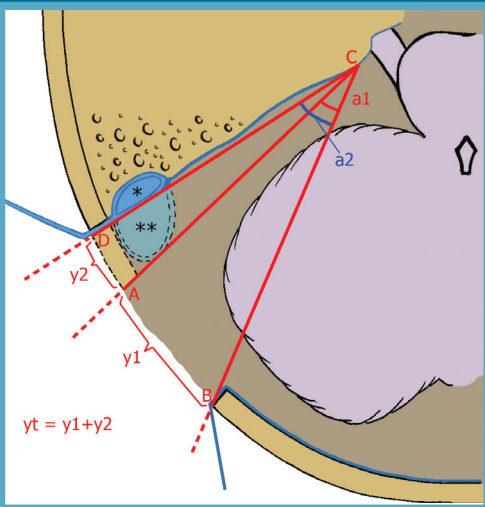
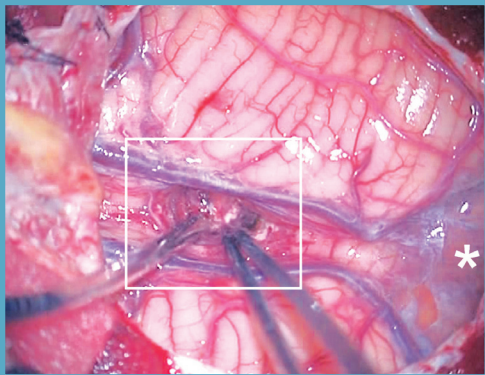
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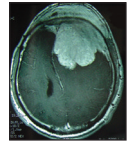
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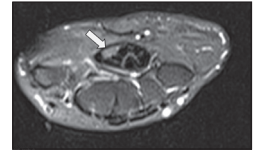
- 685** **Lumbar Microdiscectomy Under Spinal and General Anesthesia: A Comparative Study**
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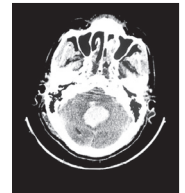
- 695** **Vena Cava Filters are not Superior to Low Molecular Weight Heparin in Venous Thromboembolism Prophylaxis: A Study on Long-Term Immobilized Neurosurgical Patients**
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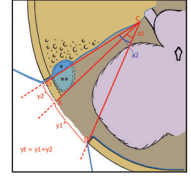
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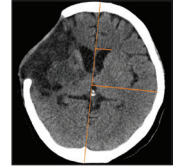
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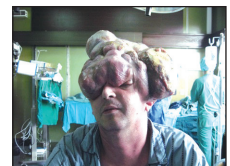
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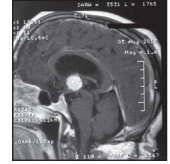
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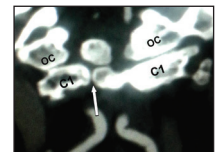
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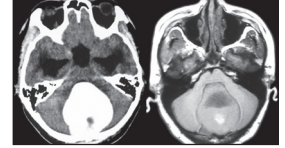
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Dear Colleagues,

Tomas Lindahl, Paul Modrich and Aziz Sancar, who was born in Turkey and graduated from Istanbul Faculty of Medicine of Istanbul University, were awarded the Nobel Prize in Chemistry 2015 for their studies on mapping and explaining how the cell repairs its DNA and safeguards the genetic information*. Our DNA remains intact due to a host of molecular mechanisms and a group of proteins that monitor the genes. These proteins continually check for and repair genome damage. Lindahl, Modrich and Sancar independently described different DNA repair mechanisms that maintain our DNA. These mechanisms repair thousands of occurrences of DNA damage caused by the sun, cigarette smoke or other genotoxic substances every day. They continuously counteract spontaneous alterations of the DNA and repair several thousand mismatches for each cell division. Without these repair mechanisms, genetic information can change rapidly and the risk of cancer increases. In fact, one or more of these repair systems have been completely or partially switched off in many forms of cancer.

The work of these scientists helped us to understand how the living cell functions and provided information about the molecular mechanisms of several hereditary diseases, cancer development and aging.

I hope that the Nobel Prize in Chemistry 2015 will encourage us neurosurgeons to work in understanding the basic mechanisms of life and to focus on the molecular mechanisms of diseases, especially in neurooncology.

Talat KIRIŞ

*www.nobelprize.org