



## Dr Maria Stassiuk, National Children's Specialized Hospital "OKHMATDYT", Ministry of Health, Ukraine

Host Institution: King Hussein Cancer Center, Amman, Jordan

**Enhancing Radiological Diagnosis and Co-registering different scans in the Radiotherapy Management and follow up of pediatric tumors**

### **Abstract**

In Ukraine, the pediatric cancer incidence is slowly increasing. In 2017, 1001 new pediatric cases were diagnosed, (14.4/100000 population).

The most common cancers in Ukrainian children are:

1. leukemia - 33 %
2. Brain tumors - 15%
3. Non-Hodgkin's disease NHL (M) and Thyroidea C-r (F) 7 %
4. Kidney c-r and Hodgkin's disease - 6,5 %
5. Bone cancer - 5 %

Radiotherapy is a very important component of treatment for these common pediatric tumors.

Optimal use of radiotherapy is crucial to assure cure, high survival rates, minimal side effects and avoid long term complications. Highly trained staff (radiation oncologist, medical physicists, technologists and nurses) is needed to assure best treatment care.

According to the World Bank 2019 Ukraine is a low-middle income country with limited resources. We lack advanced training in our specialties that might affect health care system.

The first pediatric Radiation Oncology department was opened in 2018 at the main Ukrainian Children's hospital - "OKHMATDYT", in Kyiv. So far we have treated 170 pediatric cancer patients at our department using 3DCRT techniques.

It is very important to enhance our skills and broaden our knowledge and experience by gaining advanced training at a highly reputed cancer center outside Ukraine, like King Hussein Cancer Center in Jordan.