

CRP E33031

Impact of the quality radiotherapy in the treatment of paediatric cancer patients

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Summary:

This CRP is the first global initiative by an UN organization to target paediatric malignancies treated with radiotherapy. Ten-year survival rates approach 80% for cancer children treated in high income countries, whereas children in many Low and Middle Income (LMI) countries do not have access to the benefits of evidence based protocols and the survival rates in such countries are around 30%. The objective is to improve the quality of radiotherapy provided for children with cancer in LMI countries by improving the quality assurance requirements, networking within radiation oncology between staff involved in the treatment and supportive care guidelines. Participation in this CRP will include educational components to strengthen agreement on evidence based guidelines, knowledge transfer and applications of good quality radiotherapy. The data collected during this study will enable to evaluate and improve practices in paediatric radiation oncology. This will help to improve the strategies and pattern of radiotherapy practice in Member States.

Overall Objective:

To enhance MS capabilities to establish sound policies concerning radiotherapy and cancer treatment, and ensuring effective and efficient utilization of current and future advanced cancer radiotherapy treatment technologies.

Specific Research Objective:

To study the impact of the optimization of treatment protocols/procedures on results of radiotherapy in paediatric cancer patients.

Expected Research Outputs:

- Optimized quality assurance guidelines for paediatric radiation oncology
- New data on importance and control of weight loss and quality of life aspects for patients undergoing radiotherapy
- Publications and guidelines for the LMI Member States will be produced
- To contribute to the establishment of evidence based treatment protocols to paediatric cancer patients treated with radiotherapy
- International Outreach Program
- St. Jude Children's Research Hospital

Participating institutions:

1. BRAZIL: Radiation Therapy Department, Boldrini's Children Cancer Center, Campinas.
2. BRAZIL: Unidade de Oncologia Pedátrica do IMIP, Nucleo de Apoio a Criança com Câncer, Recife.
3. CHINA: Shanghai Children's Medical Centre, Shanghai Jiao Tong University, Shanghai.
4. CUBA: Instituto de Oncología y Radiobiología (INOR), La Habana.
5. EGYPT: Children's Cancer Hospital, Cairo.

6. INDIA: Tata Memorial Hospital, Mumbai.
7. INDONESIA: Department of Radiotherapy, Dr. Cipto Mangunkusumo National General Hospital, Jakarta.
8. TURKEY: Department of Radiation Oncology, Ege University Hospital, Izmir.
9. UNITED STATES OF AMERICA: International Outreach Program, St. Jude Children's Research Hospital, Memphis (data management centre).