

## **PRESS INFORMATION**

NB: This was the subject of a news briefing by Prof Gilles Vassal and Prof Martin Schrappe on Saturday 26 September during the European Cancer Congress 2015

### **Childhood cancers in Europe: progress has been made, but much remains to be done, says major report**

**Vienna, Austria:** Each year in Europe, 6,000 young people die from cancer. And two-thirds of those who survive suffer from treatment-related side effects. Although there has been considerable progress in the treatment of childhood cancers over the past few decades, and cancer in childhood is rare, these are major problems that need to be overcome, says a report from SIOPE, the European Society for Paediatric Oncology, launched at the 2015 European Cancer Conference [1] today.

“The SIOPE Strategic Plan: A European Cancer Plan for Children and Adolescents” [2] sets out the plans of the European Community of Paediatric Haematology Oncology to improve both the cure rate and the quality of life for survivors of childhood cancers over the forthcoming ten years, with the ultimate aim of increasing disease-free and late-effect free survival. Cancer is still the first cause of death by disease in children aged one year and over in Europe, and more than 300,000 European citizens are paediatric cancer survivors. In addition to the side effects of treatment, more of these survivors die five years after treatment compared with the non-cancer affected population. .

“This is a serious problem, for patients, their families, and for health services, with major inequalities existing across Europe”, says Professor Gilles Vassal, from the Institut Gustave Roussy, Villejuif, France, and President of SIOPE. “Add to this the fact that 35% of such cancers normally occur before the child is five years old, and that many paediatric cancers are difficult to treat, and you will understand why we thought it essential to try to tackle this problem in a practical way.”

The report, drawn up after widespread consultation, including discussions with parents, patients and survivors, sets out existing problems and proposes solutions to tackle them. It formed part of the EU 7<sup>th</sup> Framework Programme project ‘European Network for Cancer Research in Children and Adolescents’ (ENCCA). [3](Among these problems are poor access to new drugs for child patients; lack of funding; disparities across Europe in access to treatment and hence survival; and the fact that paediatric oncology was relatively isolated from the adult oncology community.

But all is not gloomy, says Prof Vassal. “Major progress, both current and expected, in understanding paediatric tumour biology through high throughput technologies becoming more widely available will help us to develop effective targeted therapies. And the support to paediatric oncology shown by the European Commission and Parliament provides not just resources, but also encouragement to those working in the field.”

However, says the report, there is a worrying tendency for politicians to think that the 80% cure rate seen in paediatric cancer means that it is not a major issue and that therefore

efforts should only be concentrated on cancer prevention in adults and on transforming cancer into a chronic disease in an ageing population. In order to try to move this situation forward, the report sets out a number of goals, and lists the key factors that will be necessary in order to achieve them. These include a commitment of all funding bodies to finance projects and structures of relevance to paediatric oncology; a strong partnership with patients, parents, and survivors, including better communication and dissemination of information; better collaboration with adult oncology; and intelligent and transparent partnerships with industry.

“One of the most important objectives focuses on increasing our knowledge of the biology of paediatric tumours,” says Professor Martin Schrappe, from the University of Kiel, Germany, and SIOPE President-Elect. “Cancers in adults result from a multi-step process, usually after exposure to external carcinogens such as tobacco, alcohol, and diet, and often progress over many years. Paediatric malignancies develop early in life and over a much shorter time period; this suggests that fewer and stronger events are required for them to progress. Compared with adult cancers, most of them show fewer genetic defects and have a lower genetic complexity.

“Major progress has been made in understanding paediatric tumour biology, and this has led to the discovery of some unique cancer hallmarks. Now we need to use modern, innovative technologies to further decipher the mechanisms of paediatric tumour development, progression and relapse, and speed up its translation to the clinic.”

In order to do this effectively and fairly, says the report, interactions need to be strengthened at several levels – between networks of basic research teams, between basic scientists and clinical researchers, and by increasing the involvement of patients and parents in the search for personalised medicines. SIOPE will monitor progress through research into outcomes.

Another important issue for SIOPE is improving the quality of life for survivors. “We believe that in 2020, there will be nearly half a million European paediatric cancer survivors, and many of them will have side effects that are severe enough to affect their daily lives. While the fact that so many survive is a cause for rejoicing, we have a duty to provide them with optimal long term care so that the rest of their lives may be as normal as possible. One way of doing this would be the creation of a ‘survivorship passport’ for each child and adolescent cured of a cancer. This would contain a history of their disease and treatment together with relevant follow-up measures aimed at improving their quality of life, and a database for storing the clinical data and hence facilitate monitoring and research,” says Prof Schrappe.

“Why does my child have cancer,” is a frequently asked but equally frequently unanswered question. Because so little is known about the causes of childhood cancers, this is hardly surprising, says the report. What is needed is to increase the understanding of a predisposition to cancer in children by using whole genome sequencing, and addressing questions on the possible environmental causes of such cancers through evidence-based studies.

“We are proud to have achieved consensus on the important steps that need to be taken to tackle the issue of childhood cancer in Europe,” says Prof Vassal. “Through setting specific and obtainable objectives, strengthening collaborations, and establishing funding partnerships, we believe that we will be able to make a real difference to the lives of paediatric cancer survivors. We would like to see our report form the basis of a European

Cancer Plan for children and adolescents, and we urge all those involved to work together with us in order to see this come about.”

(ends)

**Notes:**

[1] The European Cancer Congress is the 18<sup>th</sup> congress of the European CanCer Organisation (ECCO) and the 40<sup>th</sup> congress of the European Society for Medical Oncology (ESMO).

[2] The full report is available here: [http://www.siope.eu/SIOPE\\_StrategicPlan2015/#](http://www.siope.eu/SIOPE_StrategicPlan2015/#)

[3] The mission of ENCCA, which runs from 2011-2015, is to structure and enhance efficient collaboration within the field of paediatric oncology in Europe. With 39 leading European institutions working together as partners, ENCCA has limited the fragmentation of knowledge and improved communication channels by bringing together all stakeholders in the field.

The **European Society for Paediatric Oncology (SIOP Europe or SIOPE)**, is the only pan-European organisation representing all professionals in the field of childhood cancers. With currently more than 1,500 members across 31 European countries, today SIOPE is leading the way to ensure the best possible care and outcomes for all children and adolescents with cancer in Europe. More information on SIOPE can be found on its website [www.siope.eu](http://www.siope.eu).

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