

# Almost one in five young children with cancer suffers from a trauma disorder

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The diagnosis and treatment of cancer does not only trigger posttraumatic stress disorder in adults and older children; infants and toddlers with cancer also suffer from trauma disorders, as researchers from the University of Zurich and the University Children's Hospital Zurich show for the first time. This discovery should be taken into account while treating children to prevent them from developing long-term psychological disorders.

People who suffer from [posttraumatic stress disorder](#) relive their [traumatic experiences](#) in the form of [flashbacks](#) and nightmares – and in childhood, also in traumatic plays during which they re-enact the experience over and over again. They avoid [stimuli](#) that remind them of the trauma or suffer from vegetative hyperarousal such as insomnia, hypervigilance or concentration problems. For the first time, researchers from the University of Zurich and the University Children's Hospital Zurich now show that infants and toddlers can also develop posttraumatic stress disorder in the wake of a [cancer diagnosis](#) and the subsequent, often very stressful treatment with chemotherapy, [radiotherapy](#) or surgery.

## Toddlers more at risk than babies

Within the scope of the study, under the supervision of Professor Markus Landolt and with the support of pediatric oncologist Eva Bergsträsser, doctoral student Anna Graf interviewed a total of 48 mothers whose children had been diagnosed with cancer. Nine (18.8

percent) of the babies and young children examined exhibited the complete clinical picture of preschool posttraumatic stress disorder. In another 20 children (41.7 percent), they detected at least some symptoms of a stress disorder, the most common being flashbacks and anxiety. Children over 18 months were considerably more at risk of developing a disorder than younger children. Likewise, posttraumatic stress disorder in the mother increased the probability of a disorder in the child. Interestingly, there was no correlation between the development of posttraumatic stress disorder and the disease characteristics studied.

### **Child-friendly treatment**

"The results of our study show that cancer and its treatment can also have a traumatic impact in babyhood and infancy," explains Professor Landolt. The children affected can develop more prolonged disorders that impair their development. In order to avoid this, various implications for treating young children with cancer emerge: "More care should be taken to ensure that potentially stressful procedures, such as bone marrow aspiration, are carried out as child-friendly and painlessly as possible," recommends Professor Landolt. Moreover, any measures that improve the child's sense of security in hospital and during the medical treatment and thus reduce their anxiety should be encouraged. There is therefore an urgent need for personnel that have been trained specifically for childhood ages and an infrastructure that is suitable for children. Last but not least, the parents should also be given as much psychological support as possible since they are the child's most important reference people and resources during illness.

### **48 children aged between eight and 48 months**

Studying posttraumatic stress disorder in very young children poses a major challenge as the symptoms manifest themselves differently at this age compared to adults or older children. Under the supervision of

Professor Markus Landolt and with the support of pediatric oncologist Eva Bergsträsser, [doctoral student](#) Anna Graf interviewed a total of 48 mothers whose children had been diagnosed with cancer. At the time of the study, the children were between eight and 48 months old. On average, 15 months had elapsed since the diagnosis.

The most common medical diagnoses were solid tumors, leukemia, lymphomas and brain tumors. 85 percent of the children had received [chemotherapy](#), 56 percent had been operated on, just under 17 percent had been treated with radiotherapy and 12.5 percent had received a bone marrow transplantation. 21 children (about 44 percent) were still undergoing medical treatment at the time of the study.

Provided by University of Zurich

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