

# INTERACCT

Integrating Entertainment and Reaction Assessment into Child Cancer Therapy

The aim of this project is to **ameliorate the communication between** multimorbid Hematopoietic stem cell transplantation (HSCT) patients and clinicians during outpatient care. HSCT treats serious malignant and non malignant diseases (eg leukemia) by destroying the patient's ill immune system and replacing it with new, healthy stem cells. The procedure itself is still associated with considerable morbidity and high risk for mortality. High quality aftercare is an essential part of the therapy, and in particular prompt information is warranted to deliver appropriate treatment.

We design and develop an **innovative, adaptive and entertaining/playful Internet tool (INTERACCT)** in a multidisciplinary approach at the interface of clinical research, design thinking and information communication technology. Augmented communication may enable the clinician to early identify behavioral changes preceding manifest symptoms of diseases. In the long run, the use of INTERACCT could lead to earlier diagnosis and, thus, to a better quality of care after HSCT. We follow the **hypothesis** that a novel, adaptive, mainly non-verbal interactive internet tool with a high fun factor will **improve medical communication and education for children and adolescents with cancer** in outpatient care leading to improved motivation of patients, earlier recognition of clinical complications and, finally, enhanced diagnosis and improved outpatient care.



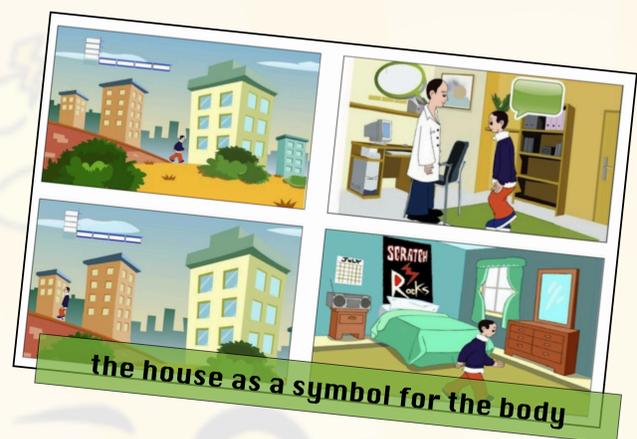
egg shaped toys help to communicate



mobile apps track food and fluid intake



a custom avatar guides players through the game



the house as a symbol for the body

## Project Partners: Team:

- > University of Applied Arts Vienna – Department of Design, Architecture and Environment for Education
- > University of Vienna – Research Group Entertainment Computing
- > CCRI – Childrens' Cancer Research Institute
- > High School Schulschiff Bertha von Suttner
- > T-Systems

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