

## Designing for inseparable Conjoined twins: Interaction Design Approach (Craniopagus Case Study)

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Introduction

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### Abstract:

Conjoined twins are two babies who are born physically connected to each other. For some of these conjoined twins the separation process is possible, but for some others is not. Therefore, it is important to design special products to support them in their daily activities and mental and physical development without health and psychological problems. As well as helping parents to care for their children in their work as parents of children with problems in dealing with their needs and dealing with those around them.

### Research Importance:

The research presents a case study "Menna and Mai". They are two identical twin girls of the type attached to the head (Craniopagus). And the focus to solve the problem of walking and mobility as one of the problems faced by each of the twins and deal with each other with parents and deal with this problem in the case of the pre-separation or non-separation. The researchers explored and discussed the related needs, the limitations and conditions in order to suggest a suitable design for this specific case, applying interaction design technics to decrease the complexity of the using process for both parents and kids, and in the same time ensure kids ability to develop their own identity, skills as normal as possible.

### Research Objectives

Focusing on one need, which is walking, as a basic need to develop the rest of child's skills easily and naturally, that moving kid is a learning kid. Helping the two girls to walk freely and response for each of them to give the opportunity to walk and help each other.

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### Keywords:

Craniopagus; Conjoined Twins; Interaction Design; Skills development.