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Callicore

Cole Miller

Thomas Jefferson University, cole.miller@students.jefferson.edu

Galen Ogg

Thomas Jefferson University, galen.ogg@students.jefferson.edu

Jasmine Phun

Thomas Jefferson University, jasmine.phun@students.jefferson.edu

Yajnesh Vedanaparti

Thomas Jefferson University, yajnesh.vedanaparti@students.jefferson.edu

Morgan Hutchinson, MD

Thomas Jefferson University, morgan.hutchinson@jefferson.edu

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80,000 Hip Dysplasia

4,000









Seat gaps

Neck hyperflexion

Chest compression

Zielinski J, Oliver G, Sybesma J, Walter N, Atkinson P. Casting technique and restraint choice influence child safety during transport of body casted children subjected to a simulated frontal MVA. J Trauma. 2009 Jun;66(6):1653-65.



Point of View

User

Parents of children in SPICA casts

Need

Transport children home from the hospital

Insight

Safely

Comfortably

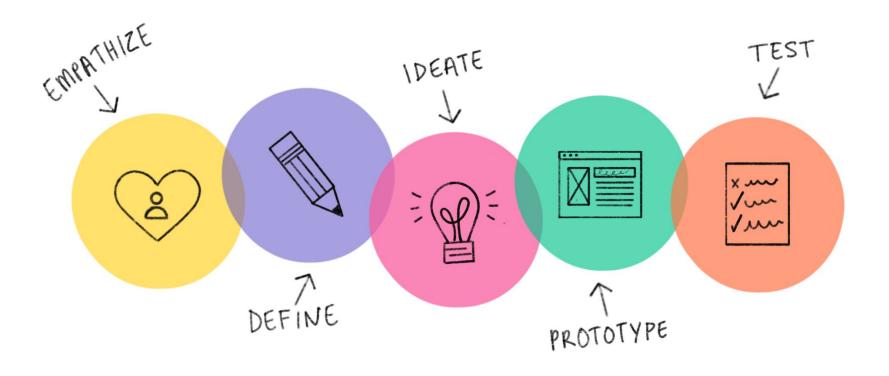
Affordably

Sanitarily

HOW MIGHT WE ...

transport children in SPICA casts in a safe, comfortable, and convenient manner so that the parents can feel more at ease.

Methods/Results: The Design Process

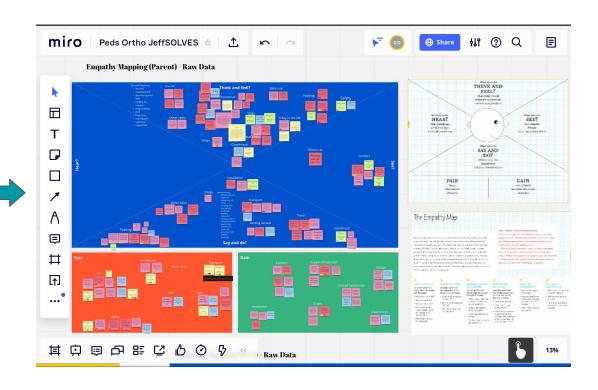


Methods: Empathize

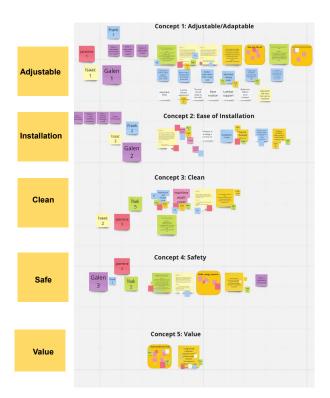
Semi-structured video interviews

12 parents

6 Injury Prevention Coordinators



Methods: Define

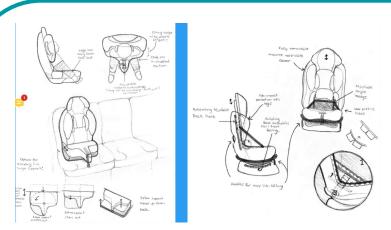


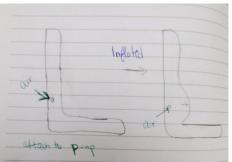
ADDRESSED BY CURRENT PRODUCTS

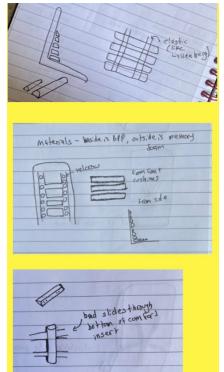
| Fighter | Fig

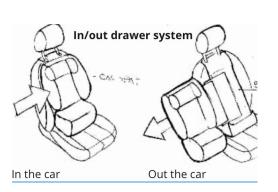
Concept prioritization

Methods: Ideate









Adaptability

Methods: Prototype and Test









Adaptable

Expanding headrest accommodates for children between 6 months to 5 years



Wing Support

Wings allow for side impact protection without sacrificing fit, comfort, or ease of getting child into car seat.

Pommel Seat

Our pommel seat is our unique feature that fits the Callicore to the child, and not the other way around.







Prototype testing











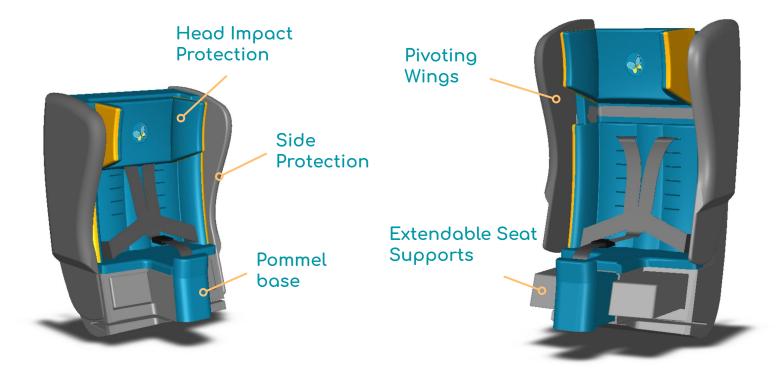


Testing the Adjustable leg supports...





Features



6