

Adaptable Baby Carrier

Low Cost Baby Carrier For Low Income People



Concepts & Prototype

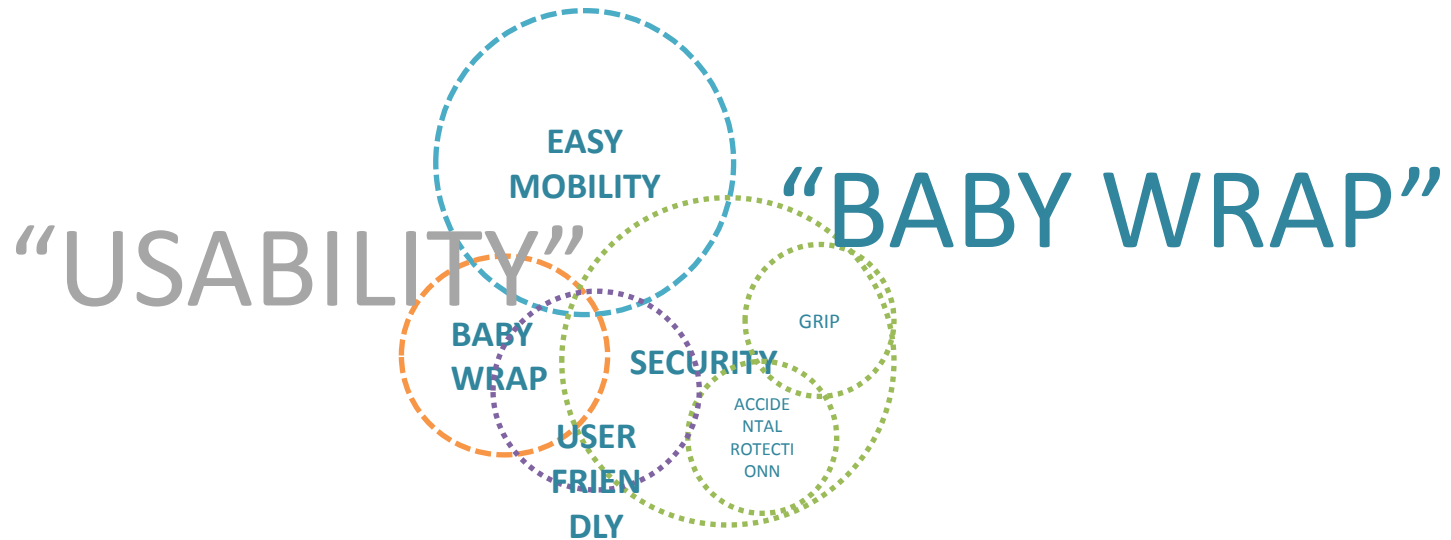
Abhijeet

Master of Design
Design Programme

Adaptable Baby Carrier

Low Cost Baby Carrier For Low Income People

“INDIAN CONTEXT”



“USER ADAPTABILITY”



“SUPPORT”


Use-Case Scenarios in India

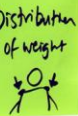
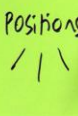


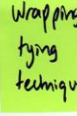
Design Research Data: Sorting & Mapping





Pattern  Origin / Country 

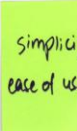
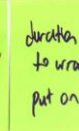
Price / Cost 

Distribution of weight  Positions 

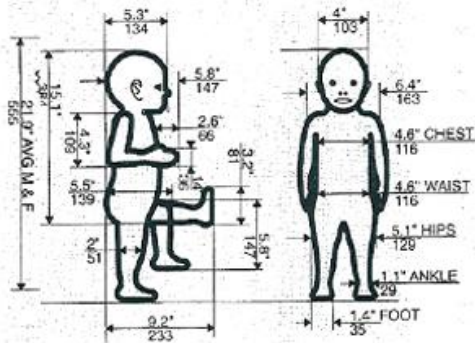
Wrapping / tying technique 

Use of joint pieces: buttons, buttons, zippers, rings 

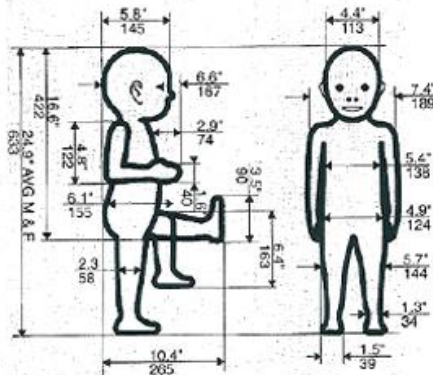
Use of material 

simplicity, ease of use  duration to wrap / put on 

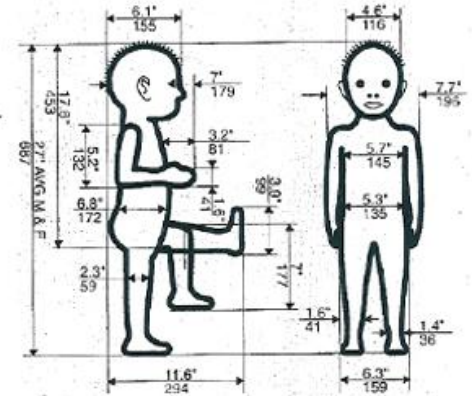
RESEARCH



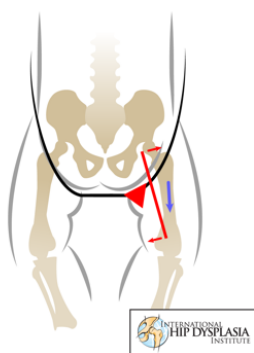
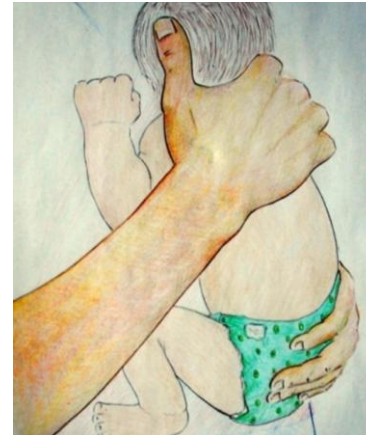
2 MONTHS
AVG WT: 10.3 LB - 4.7 KG



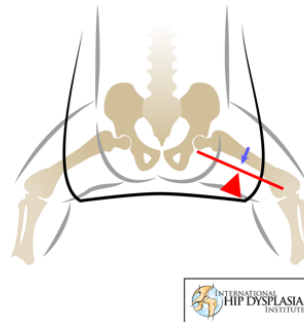
3-5 MONTHS
AVG WT: 14.7 LB - 6.7 KG



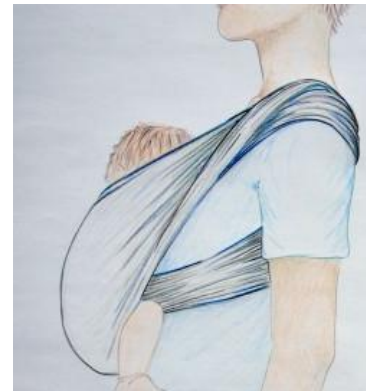
6-8 MONTHS
AVG WT: 17.6 LB - 8 KG



Thigh NOT supported to the knee joint. The resulting forces on the hip joint may contribute to hip dysplasia.



Thigh is supported to the knee joint. The resulting forces on the hip joint are minimal because the legs are spread, supported, and the hip is in a more stable position.



Available products in market



Observations:

People holding babies
On **two wheeler**

People carrying baby in **public transport**

People carrying baby in **public spaces**

People with **lower economy group.**

Interviews:

- **Door to Door** Interview.
- Interviews in **public areas:**
 - Sabji Mandi
 - Shopping Mall
 - Railway Station
 - Permat Mandir
- Interview with Janitors at hostel
- Interview with **homeless** people

Housemakers

Single Mother

Homeless

Nurse/ Pediatrician

Working Parents

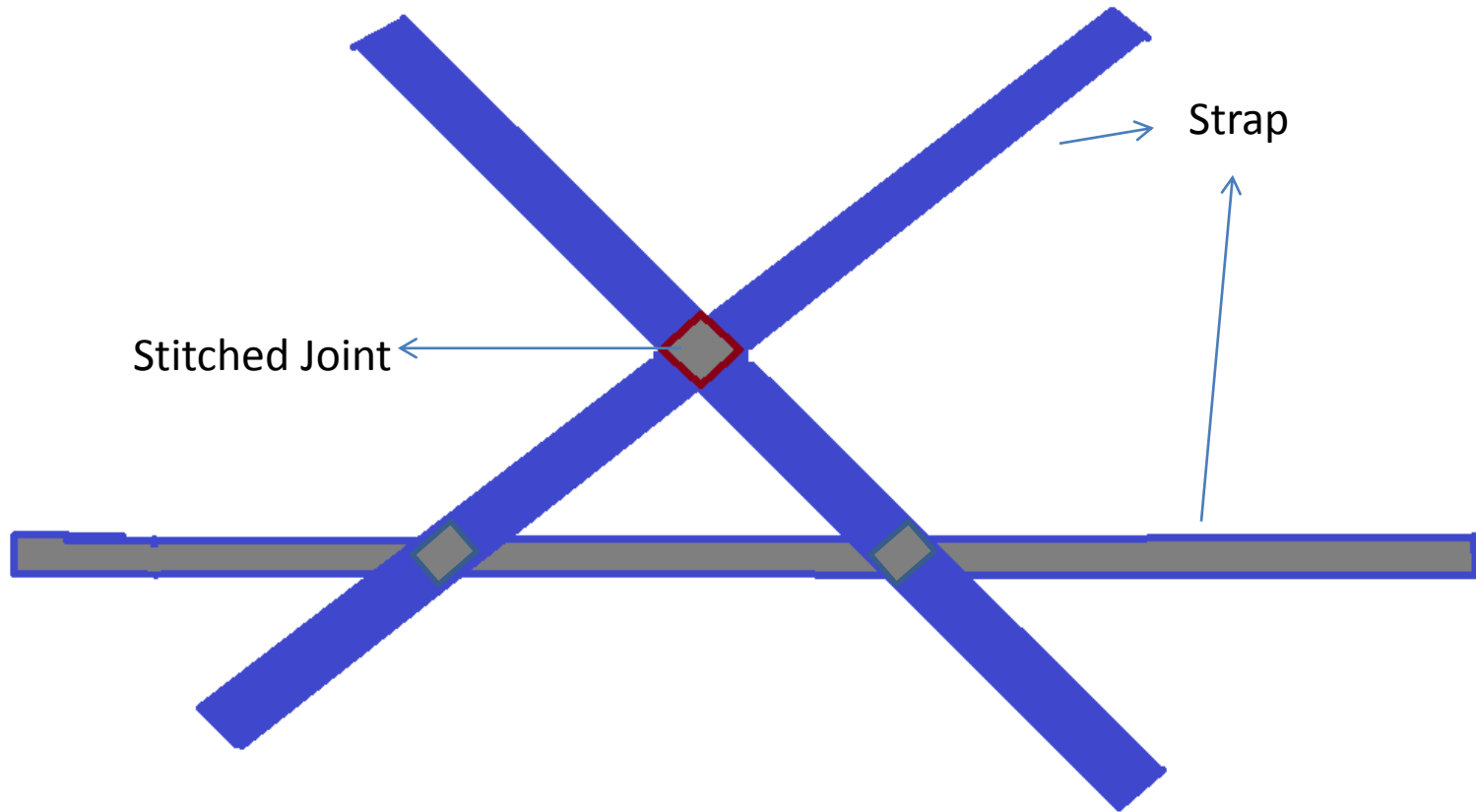
Insights

- Connection between the mother and the child very important.
- Baby carriers cannot be trusted of the babies security.
- It isolates the baby from the mother.
- Carrier is a hindrance for the mother and dangerous for the baby while working.
- Not suitable for very small infants (6 months)
- Ease of use lacks in the existing carriers
- Not suitable for switching between uncontrolled and controlled temperatures.
- Even if a baby is kept in the baby carrier, it recognises mothers embrace and cries without the mother.

Behaviours:

- People always use a cloth to wrap around the baby. A design solution for carrying a baby while travelling would be useful.
- Baby is carried around by both the parents and looked after by grandparents .A design solution is required in cases where any of these is missing.

Concept 1-Strap Baby Carrier



Material- Denim/Dungaree cloth

Material is planned to recycle from used Jeans which are discarded by users

Prototype of Concept 1



Side View

Prototype made using Paper Strips and tested with dummy weight

Prototype of Concept 1



Rear View

Concept 2-Reuse T-shirts as Baby Carrier



Prototype made using old used t-shirt and paper strips

Prototype of Concept 2



Side View

Prototype tested with dummy weight

For any further information or query regarding this project kindly send an email.

Thank You