

## Cubitus baby -

An innovation giving time for saying farewell

Ingela Rådestad Midwife, Professor

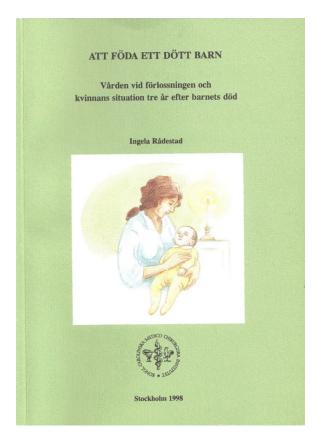


## To give birth to a stillborn baby – women's situation three years after the baby's death

If the woman had memories: hand and foot-prints, lock of hair photographs......

If the woman had spent time with the baby, time to saying farewell......

Better outcome





#### Stillbirth and neonatal death

Stillborn gestational week 22+ Neonatalt death (0-27 days) In Sweden in 2013 429 (3.8/1000) 197 (1.8/1000)

626 babies

Global

2.6 million babies are born dead each year 98 % in low and middle income countries



#### Time for saying farewell

"Many people think that the worst thing that can happen is to give birth to a dead child, but it was not so bad. The worst thing was to leave her there in the hospital."

2.5% parents took their baby home before the funeral

665 (32%) mothers wanted to take their baby home if anyone had said that this was possible

Spädbarnsfondens Web survey in 2011



## Time for saying farewell

"When I lost my daughter two years ago, they kept her in a regular refrigerator. Not only that you lost her, but also stored in this way is terrible."

Spädbarnsfondens Web survey, 2011





## Time for saying farewell





"Just the thought made me nauseous, that our wonderful little boy would be in a sterile cold room."

Spädbarnsfondens Web survey, 2011



### Background to the development of Cubitus baby

Dignity as well as to optimize the parents control of their children.

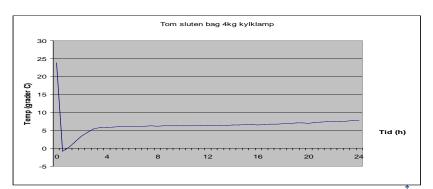
With support from *Idélab Mälardalen University* a designer could materialize my thoughs to a prototyp that could be tested in labarotory and for clinical use.





# Functional and design prototype - the cooling capacity tested in laboratory







Criteria for the development
Keeping cool
Hygienic
Easy to use
Safe and secure
Dignified
Sustainable development



#### Tested at two birth clinics

#### **Evaluation:**

Temperature when the child was placed in Cubitus baby? Temperature when the cooler unit was changed? Number of times the coolers units were changed? Midwives' perception of manageability?

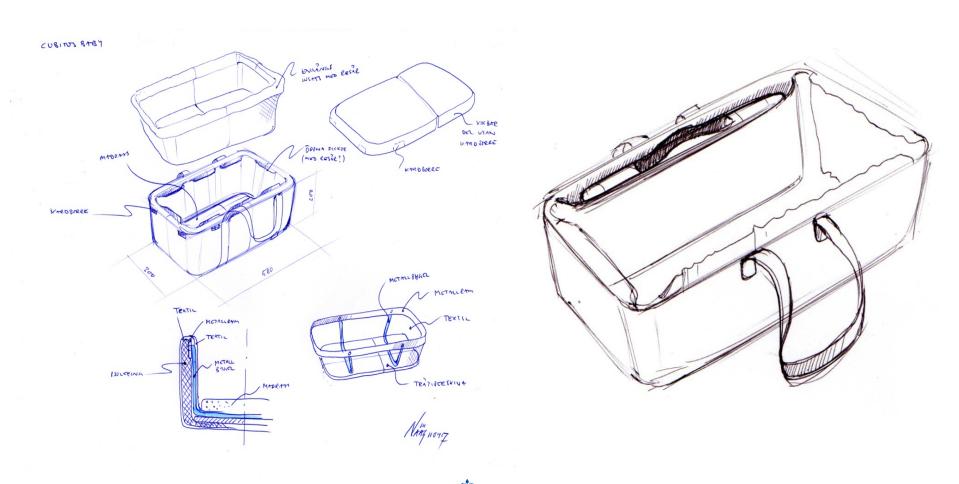
#### It works!!!

A product development team of engineers, designers, and sewing suppliers is assembled





# The ideas materialize into functional solutions, different proposals for the design to be developed, one is chosen





#### Different solutions are considered

Cost
Cooling performance
Complexity
Logistics / Storage





## Testing of various methods for bonding styrofoam







# Handmade frame of foam as a base, testing the cooling block







## Simple technique for cooling







## Cooling blocks can be replaced without "disturbing" the child





## Taking the baby home before the funeral





## Cubitus Baby as a coffin





### A generous donation

Ruth and Richard Julins stiftelse supporting the non-profit project

Production of 50 Cubitus baby and all distribution costs





## My office before the implementation







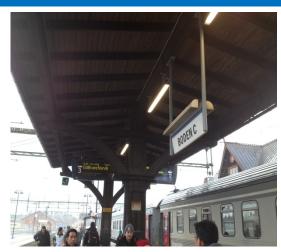
## Implementation 13/10, 2012 - 20/11, 2014













#### Documentation and research

115 unique clinical reports from the use of Cubitus baby - data collection on going

"A far greater sense of dignity in these situations"

"Great advantage to be able to have the baby in the room"

"Cosy and respectful"







# Facebook 10 000 likes and over 500 comments during 24 hours





## Honourable mention Design S, Sweden's national design award, 2014

"The product shows that design does not avoid difficult issues. Situation design at its best. Creates closeness and care in the most indescribable of moments.

With great understanding for the need for integrity and practical necessity during the heaviest grief, the product acts as a silent companion during the time needed. The absolute neutrality of the design is commended."







# From idea to implementation seven years a non-profit project



International Stillbirth Alliance conference in Birmingham 2007

All birth clinics in Sweden 2014

#### Thanks to:

Ruth och Richard Julins Stiftelse Idélab, Mälardalens högskola Södermanlands Sparbank Almi Södermanland Sophiahemmet ideell förening Spädbarnsfonden Baby bag





#### Thanks to Innovation office KI!

Cooperation agreement with FONUS



