

## Randomized, crossover trial evaluating the performance of **Philips Avent Single and Double Electric Breast Pumps**

Electric breast pumps

We conducted a community-based clinical study with lactating mothers, experienced with breast pumps, using the newest Philips Avent Breast Pump with a novel collapsing expression kit.

### **Population** N=20

Delivered a healthy, term singleton infant (birth weight above 2.5 kg and at least 37 weeks gestation)

Moms: Ages 18 - 50 yr. (exclusively breastfeeding) Babies: Ages 1 - 4m

## **Method**

Sessions took place at a subject's home and was led by a lactation specialist





## Effective expression<sup>\*</sup>

Mom's feedback on their satisfaction with the Philips Avent Electric Breast Pump's features



### Quicker time to MER 184salmost **Conventional** breast pump\*\* We measured from the moment faster mom starts to use a breast pump untill the first ejection of milk ... this is known as MER **51.8s Philips Avent** Single Electric Philips Avent Double Electric

\*Based on milk flow initiation time (time to Milk Ejection Reflex - MER) results from clinical trial with 9 participants (Netherlands, 2019) compared to time to MER results for other Philips predecessor pump technology from Feasibility study with 9 participants (Netherlands, 2018); \* Philips Avent SCF334



### **Conclusion:**



### of moms agree, the **Philips Avent Electric Breast Pump is effective**

and it initiates MER within as little as ...





**AVENT** 

Electric breast pumps

# Achieving comfortable and effective milk expression with the new Philips Avent Electric Breast Pumps

## We considered three main parameters to ensure fit:

## Nipple size data

#### N=157 data points

Considering difference in nipple physiology between countries or continents, the probability that the nipple size is smaller than 30mm is 99.98% (assuming normal data).



### Stretch observation

**Based on knowledge** that nipples stretch substantially during expressing, observations were made providing a clear view on how much stretch there can be.

Most of the stretching occurs in the first minute, and stretch is not determined by starting size, but rather by flexibility of tissue.



From a volume perspective the nipple, on average, increases almost 9 times compared to its starting volume.

**Conclusion:** The Philips Avent improved, collapsing, one-piece, silicone cushion adapts to: of nipple sizes\*

### **Design for collapse**

Our new collapsing technology adequately touches, and thereby, messges even the smallest nipple size.

