

## Randomized, crossover trial evaluating the performance of Philips Avent Single and Double 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

#### **Population**

N=20

Delivered a healthy, term singleton infant

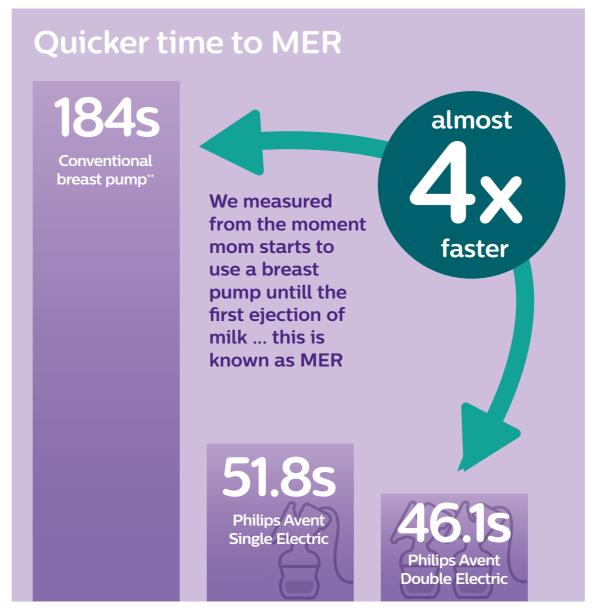
(birth weight above 2.5 kg and at least 37 weeks gestation)



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



### Effective expression\* Mom's feedback on their satisfaction with the Philips Avent Electric Breast Pump's features Overall 97% effectiveness Comfort Time to MER 93% Time needed to express Amount of milk Suction power



#### **Conclusion:**

97%

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

and it initiates MER within as little as ...

46 seconds



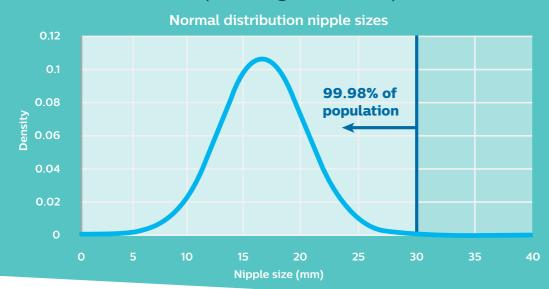
# Achieving comfortable and effective milk expression with the new Philips Avent Electric Breast Pumps

#### 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.

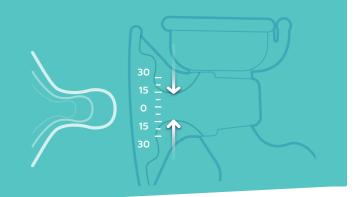
Most of the stretching occurs in the first minute, and stretch is not determined by starting size, but rather by flexibility of tissue.



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

#### Design for collapse

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



#### **Conclusion:**

The Philips Avent improved, collapsing, one-piece, silicone cushion adapts to:

99.98% of nipple sizes\*