

Medela Symphony[®]: the leading choice for initiating, building and maintaining milk supply

l-grade breast pump with Initiation technology



Helping you ensure infants are fed own mother's milk

At Medela, we are advocates for the amazing benefits of human milk. It is why we partner with healthcare professionals to address everyday human milk challenges, offering the most advancing, evidence-based solutions.

The Symphony[®] hospital-grade breast pump is a perfect example of such a solution. It is the ideal partner for supporting mothers through the four key stages of lactation – based on only the most valuable and trusted research.

While it's already the leading choice of healthcare professionals, we want to help more infants who cannot effectively breastfeed in the early days after birth to be exclusively fed their own mother's milk (OMM). What makes the Symphony® so popular in hospitals all over the world:

- One device that can be used by all mothers in need of a breast pump¹⁻³
- Helps more mothers produce enough to feed their infants exclusively with their own mothor's millul²



exclusively with their own mother's milk^{1,2} More milk in less pumping time over the first two weeks^{*1}

Why OMM is so important

Milk from an infant's own mother (rather than a donor) is tailored to that infant's needs. It helps reduce the incidence, severity and risk of morbidities such as NEC⁴ and sepsis⁵ and does so in a doseresponse manner – more milk, more benefit.^{5,6}



*When using INITIATE followed by MAINTAIN compared to using MAINTAIN alone

When to use a Symphony[®] breast pump with Initiation technology

If breastfeeding is not possible, a hospital-grade breast pump can help the mother initiate, build and maintain an adequate milk supply. The sooner and more effectively she can do this, the more likely she will be to be able to exclusively breastfeed later, with minimal intervention from healthcare professionals.

Pumping goals

- Initiate milk supply when effective breastfeeding is not possible
- Ensure mothers achieve an adequate milk supply to nourish their infants

 whether transitioning to exclusive breastfeeding or exclusively pumping
- Maximise milk output so infants can benefit from an exclusive human milk diet

How Symphony[®] supports lactation goals

- Helps mothers whose infants cannot effectively breastfeed during the early postpartum days, to exclusively feed them own mother's milk
- Helps safeguard milk supply by comfortably and efficiently mimicking natural sucking rhythms
- Enables mothers to express more milk with a higher energy content by double pumping with a PersonalFit[™] PLUS pump set

Properties of a hospital-grade breast pump

Multi-user

Has overflow protection (also referred to as a closed system) to prevent cross-contamination, and compatible with easy-tosanitise disposable and reusable pump sets.

Durability

Developed and tested to last >2,500 pumping hours.

Double electric

Delivers more milk, with a higher energy content, than pumping from each breast in turn.¹²

Clinically proven

Shown to initiate, build and maintain pump-dependent mothers' milk supply.¹

Symphony[®] meets all of these essential criteria.



Learning from infant feeding behaviour to optimise expression

Medela invested in research into the way infants feed during the different stages of lactation and made some fascinating discoveries. Symphony[®]'s unique combination of programs were developed to mirror these findings.

BEFORE secretory activation

Healthy term-born infants suck irregularly:

- Large proportion of 'non-nutritive' sucking to stimulate the breast
- Short bursts of 'nutritive' sucking to gain small amounts of colostrum
- Pauses and rest periods of varied length

INITIATE

Clinically proven to support pump-dependent mothers to successfully initiate milk production.¹

Mimics the sucking pattern of an infant in the first days of lactation:

- Stimulation phases
- Expression phases
- Pause phases

A fixed 15-minute duration to ensure proper stimulation.

Helping mothers' milk come in earlier

Around **40%** of mothers are at risk of delayed secretory activation (milk coming in after 72 hours)¹⁷ and may need extra support from healthcare professionals. In addition, **60%** of them are more likely to stop breastfeeding at four weeks if secretory activation is delayed.¹⁸

Mothers who used INITIATE reached secretory activation 1.2 days faster compared to mothers using MAINTAIN alone³

AFTER secretory activation

Infants suck in a bi-phasic pattern:

- Phase 1: Rapid sucking at the start of a feed to elicit milk ejection
- Phase 2: Slower, deeper sucking to remove milk

MAINTAIN

Clinically proven to help mothers build and maintain milk production^{1,13} and optimise milk output.¹²⁻¹⁶

Mimics the sucking behaviour of an infant during established lactation:

- Features 2-Phase Expression[®]
- High-frequency stimulation to encourage milk flow
- Longer vacuum cycles to extract millk

A unique combination of programs

Individually, the programs give the highest standards of performance, but it is the results of their combined use that really set Symphony[®] apart.

The research

The team behind INITIATE conducted a blinded, randomised controlled trial of 105 mothers with preterm infants. It compared using INITIATE followed by MAINTAIN after secretory activation with using MAINTAIN alone from the beginning.

The results

Compared with mothers using MAINTAIN alone, mothers using INITIATE followed by MAINTAIN.¹

Achieved significantly higher daily milk volumes over the first two weeks.

Were more likely to achieve a supply greater than 500 ml (16.9 fl oz) per day by the end of the second week.

Expressed volumes after using INITIATE followed by MAINTAIN that were similar to those consumed by a term-born infant from days six to 14 after birth.



By day 14 adequate milk production for an exclusive own mother's milk diet should be more than

00ml/day

24%

of mothers who used INITIATE followed by MAINTAIN achieved this within

4 days

This is almost twice as many as those who used MAINTAIN alone.³

Matching infants' needs

Preterm infants' daily milk intake is less than term-born infants at first, but they will eventually require a 'full-term' supply.

This is why mothers need to build daily volumes of 500 ml (16.9 fl oz) and above – the equivalent of a term infant's intake – within the first two to four weeks. The benefits of Symphony[®] with Initiation technology

Advantages of double pumping with Symphony®

As well as being quicker – a big plus for busy healthcare professionals and mothers – research shows it obtains 18% more milk on average, compared to single pumping each breast in turn.¹² And the milk expressed had a higher energy content, too.¹²

> Higher-energy milk is especially beneficial for preterm infants

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Safeguarding supply, for now and the future

Symphony[®] also helps the final (and perhaps the longest) part of a mother's lactation journey: maintaining milk supply. Again, the Symphony[®] results mirror the infant.

Infants remove an average of 67% of the available milk from the breast during feeds in the Maintain period.¹⁰ Therefore this is the amount to aim for to maintain supply if pumping long-term.

Research has also shown that when mothers pump with the Symphony[®] at their maximum comfort vacuum (switching from stimulation to expression as soon as milk flows, then adjusting vacuum to highest level that still feels comfortable), they can remove 65.5% of available milk, which helps safeguard supply.¹⁴

All mothers and infants can take advantage

While these results are particularly good news for mothers with premature infants, studies support use of the Symphony[®] programs for pump-dependent mothers with infants born at any gestational age.^{2,3}

Making life easier in hospital or at home

Medela has also developed the Symphony[®] with the convenience of healthcare professionals and mothers in mind.

- Easier handling than other breast pumps – only setting the vacuum level is required
- Overflow protection (closed system) prevents milk from getting into the tubing or motor, improving hygiene and enabling a more relaxed pumping position
- Particularly gentle on sensitive breast tissue when expressing regularly over a long period thanks to patented suction curve
- Especially gentle, comfortable¹³ transition between stimulation and expression phases via gradual vacuum increase
- Pleasingly quiet operation
- Can be upgraded in response to new research findings simply by changing the program card

With PersonalFit[™] PLUS for even more milk, comfort and efficiency

The PersonalFit[™] PLUS pump set for Symphony[®] has a groundbreaking design.

It is based on unique clinical studies that demonstrated the breast shield's crucial role in optimising expression.¹⁹⁻²¹

Using Symphony[®] with PersonalFit[™] PLUS rather than a standard pump set obtains 11% more milk in 15 minutes.¹⁹

PersonalFit[™] PLUS is also clinically proven to offer more comfortable pumping, with 100% of mothers positively evaluating the breast shield fit.²¹

And because these pump sets are easier to use, handle and clean^{20,21} they help save time on busy wards, and also mean mothers need less initial instructions and ongoing support if taking them home. important for pumpdependent mothers, as discomfort can inhibit milk ejection.²²

Nothing should get in the way of giving infants the very best start over the precious first days, weeks and months of life. Symphony[®], its programs and technical features work together to initiate, build and maintain milk supply, so healthcare professionals can focus on what matters most: the mothers and infants in their care.

References

1 Meier PP et al. J Perinatol. 2012; 32(2):103–110. **2** Torowicz DL et al. Breastfeed Med. 2015; 10(1):31–37. **3** Post EDM et al. J Perinatol. 2016; 36(1):47–51. **4** Sisk PM et al. J Perinatol. 2007; 27(7):428–433. **5** Patel AL et al. J Perinatol. 2013; 33(7):514–519. **6** Meier PP et al. Clin Perinatol. 2010; 37(1):217–245. **7** Pang WW, Hartmann PE. J Mammary Gland Biol Neoplasia. 2007; 12(4):211–221. **8** Neville MC, Morton J. J Nutr. 2001; 131(1):3005S-3008S. **9** Kent JC et al. J Obstet Gynecol Neonatal Nurs. 2012; 41(1):114–121. **10** Kent JC et al. Pediatrics. 2006; 117(3):e387-e395. **11** Kent JC et al. J Breastfeed Med. 2003; 38(4):401–407. **12** Prime DK et al. J Prime DK et al. J Pum Lact. 2002; 18(4):353–360. **17** Nommsen-Rivers LA et al. Am J Clin Nutr. 2010; 92(3):574–584. **18** Brownell E et al. J Pediatr. 194; 33(6):698–704.

Find out more about the Symphony® at medela.com/symphony or contact your Medela representative

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