

Airway Clearance Techniques: Baby PEP

What are Airway Clearance Techniques?

Airway Clearance Techniques (ACTs) are an essential part of management for people with cystic fibrosis (CF). Performing regular airway clearance helps loosen the thick sticky mucus from the airways.

What is Positive Expiratory Pressure?

Positive Expiratory Pressure (PEP) is a technique which involves actively breathing out against a resistance to increase airflow and keep airways open. PEP helps get air behind mucus, moving it towards the mouth where it can be cleared. PEP can be used for babies who have floppy airways or as an independent technique as children get older.

Baby PEP

PEP mask therapy for infants and small children will be different for each child. PEP is introduced gently in this age group, under the guidance of your hospital physiotherapist, with lots of positive reinforcement and encouragement.

They will choose a mask to fit your child and attach the 3 way valve. A resistor will be chosen that allows your baby to breathe comfortably while generating pressure in the airways and lungs.



It may take a number of months for PEP mask therapy to become an effective treatment as it is gradually introduced and incorporated into the routine of daily physiotherapy. It is important to follow the advice of your hospital physiotherapist about whether to continue with alternative physiotherapy techniques while the transition PEP mask therapy occurs.



How is Baby PEP Done?

Your physiotherapist will teach you how to introduce the technique with your baby at home. An example of the technique may be as follows:

- Sit your baby on your lap with one of their arms tucked around your back and their head resting on your upper arm. You may like to hold their free hand with the hand of your supporting arm.
- Hold the PEP mask against your baby's face, covering the nose and mouth to create a seal, ensuring there is no air leak around the mask. Your baby will breathe as normal on the mask.
- You might like to distract your baby with singing or talking or get someone to help you while they get used to the mask.
- Remove the mask before your baby becomes distressed, gradually increasing the amount of time as tolerated.

For support with physiotherapy contact your CF hospital team.

Useful Resources

- [CFWA Airway Clearance Factsheets](#)

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