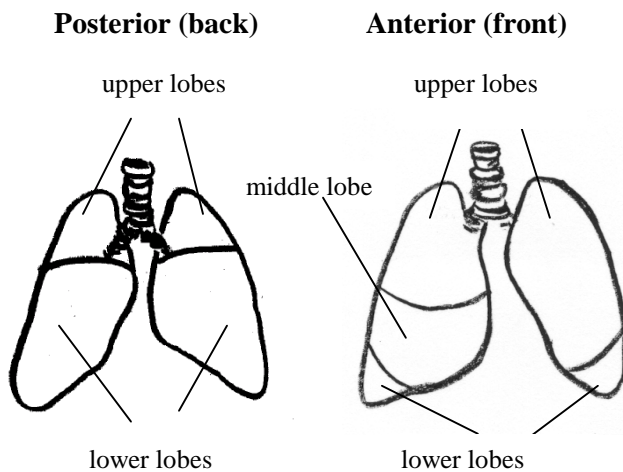


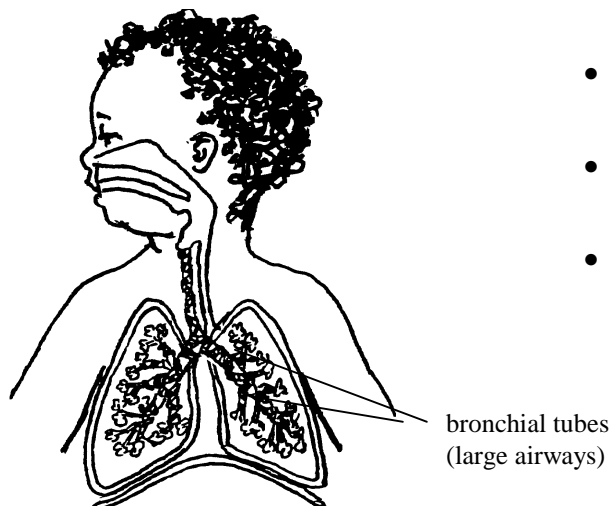
Chest physiotherapy (birth to 2 years)

What is chest physiotherapy?

Chest physiotherapy (CPT) is a way to help get mucus out of the lungs. The lobes of the lungs, both back and front, are shown below.



Inside of lungs



There are two parts to CPT—bronchial drainage and percussion. Do CPT **only** after you have been taught by a Respiratory Therapist.

Bronchial drainage (BD) is positioning the body to allow gravity to help in moving the mucus. Different positions are used so that the area to be drained is highest.

Percussion or clapping is tapping the chest wall rhythmically to loosen mucus and move it into the bronchial tubes (large airways) of the lungs.

How do I prepare my child?

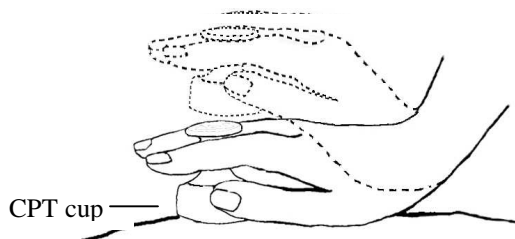
The air pocket created between the hand and the chest makes a popping sound. Although this procedure is noisy, if your hands are cupped properly it will not hurt your child.

- Explain what your child will hear and feel.
- Explain what you are going to do using language your child will understand.
- Show your child on a doll what you are going to do.
- Reassure and praise your child throughout the procedure and when you are done.

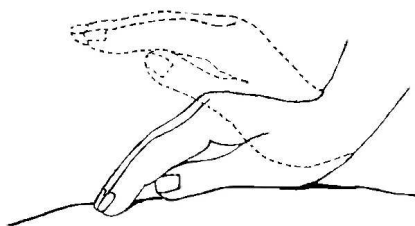
How should I do CPT?

The doctor will decide what positions your child will need for CPT, and how often to do the therapy. Schedule it before or at least 1 hour after eating.

1. To make percussion more comfortable, your child should wear a thin layer of clothing such as a shirt, or you may use a blanket or towel over the skin. **Do not** percuss on bare skin.
2. Place your child on a padded surface, using blankets or pillows for positioning and support. Use the checked positions.
3. Percuss each area rhythmically and vigorously.
 - For small children, use a CPT cup.



- For older children use cupped hands.



4. Percuss _____ minutes in each position as directed.
5. Percuss **only** over the ribs. Avoid percussing over the spine, breastbone, stomach, lower ribs, and lower back to prevent injury to body organs.

What else do I need to know?

Percussion is less tiring if you keep your arms relaxed and do the movement with your wrists.

If your child has trouble with a position (poor color, hard time breathing, fighting it), sit him or her up until breathing returns to normal, and try again. If you have tried a position 3 times and your child still has trouble, go on to the next position. If you cannot give the full therapy again at the next session, call the doctor.

Various mechanical devices may be used for percussion. If your child needs CPT often, you may want to consult your doctor or therapist for advice.

When should I call the doctor?

- fever
- coughing up fresh blood
- hard time breathing
- lip or nail color becomes blue or gray
- you are unable to give a complete therapy session twice in a row

Questions?

This sheet is not specific to your child, but provides general information. If you have any questions, please call the doctor.

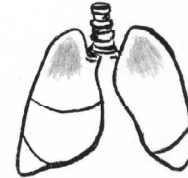
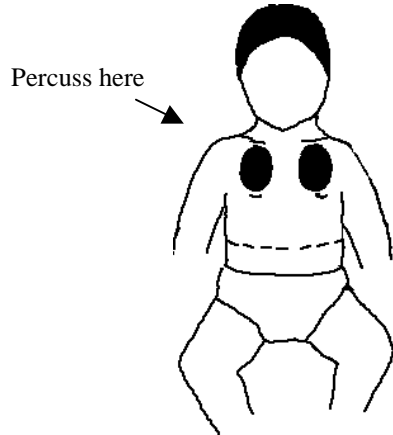
For more reading material about this and other health topics, please call or visit the Family Resource Center library, or visit our Web site: www.childrensmn.org.

Use the positions checked below.

Note: your therapist may teach you to adjust some of these positions to meet your child's needs.

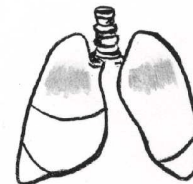
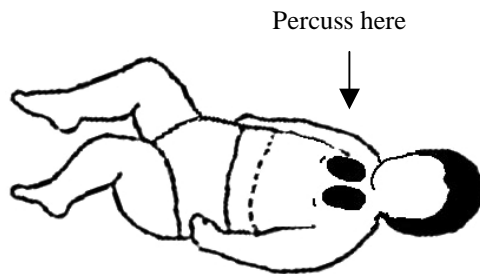
1. **Right and left upper lobes – apical segments**

Place child in an upright position with back supported.
Percuss just below the collarbones.



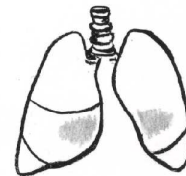
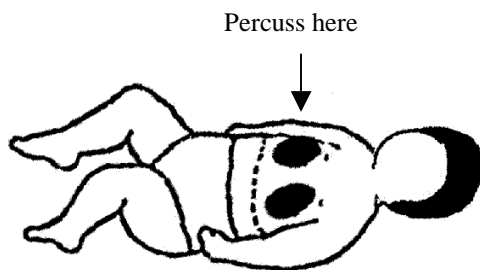
2. **Right and left upper lobes – anterior segments**

Place child on the back.
Percuss between the collarbone and nipple on both sides.



3. **Right and left lower lobes – anterior segments**

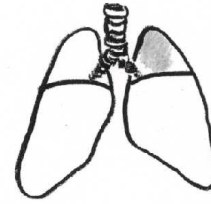
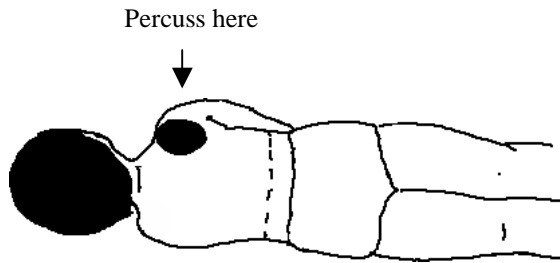
Place child on the back.
Percuss both sides just below the nipple and above the lower ribs.



4. **Right upper lobe – posterior segment**

Place child on the left side.

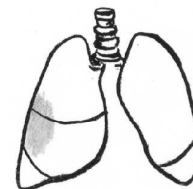
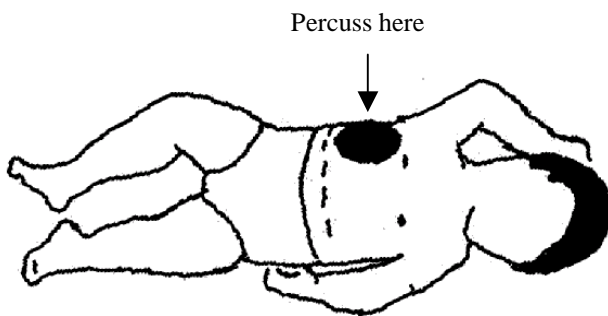
Percuss on the top part of the right shoulder blade.



5. **Right lower lobe – lateral segment**

Place child on the left side.

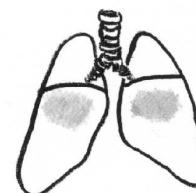
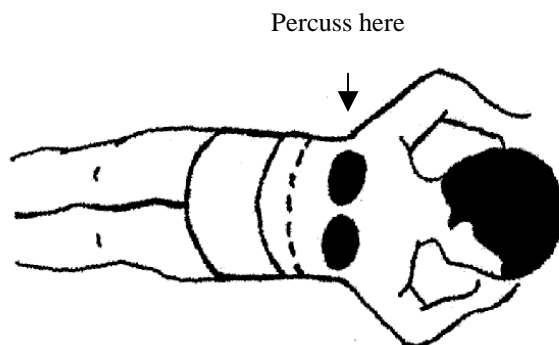
Percuss below the right armpit and above the lower ribs.



6. **Right and left lower lobes – superior segments**

Place child on the abdomen (belly).

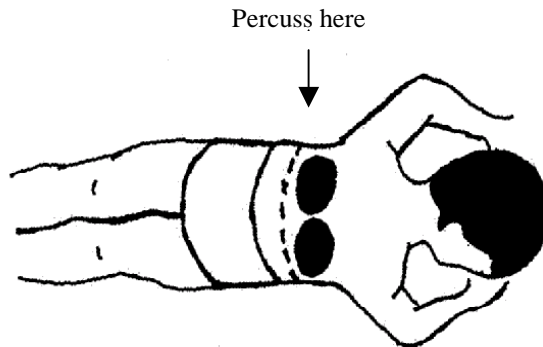
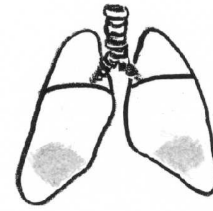
Percuss on the bottom of, and just below, the shoulder blades.



7. **Right and left lower lobes – basal segments**

Place child on the abdomen (belly).

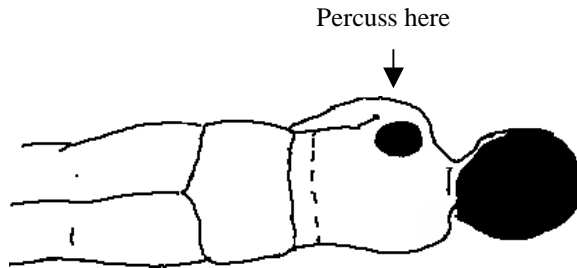
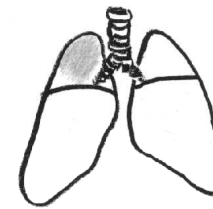
Percuss below the shoulder blades and above the lower ribs.



8. **Left upper lobe – posterior segment**

Place child on the right side.

Percuss on the top part of the left shoulder blade.



9. **Left lower lobe – lateral segment**

Place child on the right side.

Percuss below the left armpit and above the lower ribs.

