



Burkhardt • Pecora orthodontics

RAPID PALATAL EXPANDER

You have (or your child has) received a rapid palatal expander. This appliance orthopedically widens the upper jaw by separating the midpalatal suture. This procedure also allows for the creation of more space for the eruption of the permanent teeth.

There are two types of expanders. The first is a BONDED expander. This appliance is a bonded (or glued) to the posterior teeth. This bonded expander not only covers the outside and inside edges of the posterior teeth, but also covers the biting surfaces of the back teeth. Thus, it is normal for the front teeth not to hit as they did before the appliance was placed.

The second type of expander is a BANDED type. In adolescent patients or adults whose permanent teeth have erupted, the appliance is fixed to the first bicuspid and first molars by the use of orthodontic bands. Both of these appliances transmit the forces of the jackscrew through the teeth to the underlying bony support.

The appliance is to be activated once per day, usually at bedtime. You have been given a special key for activating the appliance. The key is a piece of wire attached to a long acrylic handle. The appliance is activated in the following manner:

1. The patient should lie on a flat surface, such as a bed. It is helpful if there is a source of light, such as a reading light, available so that the inside of the mouth can be illuminated.
2. The appliance is activated by inserting the key into the hole at the midline of the appliance. The key is rotated downward and backward as the key moves toward the throat. The key should be pushed until the next hole in the expansion screw becomes visible.
3. The key should be removed from the appliance by pushing downward and slightly backward on the handle. **Do not deactivate the appliance by pulling the key anteriorly as you remove it from the appliance.**
4. During and immediately following the activation of the appliance, some pressure may be experienced by the patient at the bridge of the nose, in the region of the cheeks, or between the front teeth. This feeling of pressure is to be expected as the appliance is activated and should only last a short period of time.
5. After about one week of activation, a space usually opens between the two upper front teeth. The appearance of the space is an excellent indication that treatment is progressing as expected. The space will continue to increase with subsequent activation. Occasionally, these front teeth will become slightly mobile and sensitive. This will subside within a short period of time. Discomfort can be relieved by taking ibuprofen (e.g. Advil, Motrin) or Tylenol.
6. After activation of the appliance has been discontinued, **there will be a gradual closure of the midline space spontaneously.** The upper front teeth will tend to drift and tip together. This closure of the space is to be expected, because the fibers that connect the teeth have been stretched and the teeth will move together on their own. The closure of the space is not a sign that the treatment is becoming unsuccessful.
7. If you are having difficulty locating the hole in the expander, or if you need another review on how to do the turns, please refer to the "Expansion" sub menu under the category of "Orthodontic Treatment" on our website, www.okemosortho.com or contact the office.



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The first day or two is the breaking-in period and will be the most challenging. Initially the patient may feel frustrated. We have found that with patience, encouragement, and a positive attitude the patient will quickly adapt. The following are some helpful ideas that will ease this adjustment period.

Speech and eating difficulties usually are resolved within 24-to-72 hours. A helpful tip is to read out loud for a few days until speech improves. It is helpful to eat softer foods for the first meal or two until the patient has grown accustomed to this new feeling. Initially, a cold treat of ice cream or popsicles may relieve some uncomfortable symptoms and help the patient become accustomed to eating with the appliance in place. This should not become a habit, however, due to the high sugar content. We suggest more nutritious dishes like pasta (macaroni and cheese, spaghetti, casseroles), soup, cereal, applesauce, and yogurt.

During meals, food may accumulate between the roof of the mouth and the appliance. It is best to finish the meal or snack first, then dislodge the food by swishing around a mouth full of your drink or rinse with the syringe provided. It is important to use the "swish and swallow" method. *Trying to suck the material from the appliance may cause the food particles to become lodged in the lungs. This could lead to a serious lung infection.*

We ask that you follow the same dietary recommendations that are followed for patients that have full braces. Avoid foods that are sticky in nature (such as gum and caramel), as well as foods that are hard (such as ice, hard candies, popcorn and pizza crust). A broken or loose expander may require a new impression and multiple appointments to repair.

It is very important that the space between the appliance and the roof of the mouth be cleansed thoroughly each day, preferably with a WATER PIK if it is available. If food particles remain under the appliance, they may become a source of irritation to the roof of the mouth that will become uncomfortable for the patient. In extreme circumstances, infections may result.

Today we have reviewed tooth brushing instructions. Please pay particular attention to the edge where the appliance meets the gums on the cheek side and the tongue side. Improper brushing can leave heavy plaque buildup which will cause gingivitis. If you notice that gums are bleeding, especially during brushing, this is a sign of gingivitis. This can be eliminated within two-to-four days with adequate plaque removal when brushing.

If the appliance becomes loose or if there is pain or extreme breath odor, call the office immediately.

During the time of activation of the appliance, it is very important that the patient is seen by the doctors on schedule. **If for some reason the patient misses an appointment, expanding the appliance should be discontinued until the patient is seen. In that case, please call the office promptly to reschedule.**

If you have any questions regarding the management of this appliance, or any other aspect of treatment, please call the office immediately.

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