Why wear a mouthguard?

The primary reason to wear a mouthguard is to protect your lips, cheeks, and tongue from being cut or bruised by your teeth and to prevent your teeth from being knocked out, chipped, or fractured.

Military personnel are required (per AR 600-63) to wear mouthguards for specific military training activities, including:

- obstacle and confidence courses
- hand-to-hand combat
- rifle/bayonet training
- pugil stick training

Do mouthguards really prevent injuries?

Scientific evidence has shown that mouthguards prevent injuries to the lips, mouth, tongue, and teeth. These are referred to as dental and orofacial injuries. A 1999 study at Fort Leonard Wood, Missouri, showed a 74% decrease in dental injuries during military combat training activities once mouthguards were provided. Mouthguards do not prevent all kinds of head injuries. For example, they won't reduce risk of concussions.

Though mouthguards can reduce a persons' risk of certain injuries, not all mouthguards are alike. Some offer more protection than others, though other factors such as comfort and cost should be considered when deciding which to use. See the next page for additional information.

Why are mouth injuries a concern for the Army?

Due to the nature of military training activities and sports, tooth losses due to injuries are not uncommon among Army Soldiers. Tooth loss as well as other mouth injuries often result in pain, lost time from work for treatment, and facial disfigurement.

When should you wear a mouthguard?

In addition to the military training activities for which they are required, mouthguards are highly recommended for activities that have the potential to seriously harm the face or mouth from:

- head-to-head contact
- falls
- teeth clenching
- blows to the mouth

The American Dental Association and the International Academy of Sports Dentistry identified 29 sports/exercise activities during which mouthguards should be worn. Hazardous popular sports among military members include: football, basketball, martial arts, wrestling, soccer, skiing, extreme sports, volleyball, racquetball, softball, skateboarding, lacrosse, rugby, and equestrian events. These activities, as well as Army training such as combatives, pose a notable risk of orofacial and dental injury.
How well do different types of mouthguards prevent injuries?

There are three types of mouthguards commonly used in sports and recreational activities. They vary in comfort, fit, protection, and cost. Consider investing in a mouthguard that is not only comfortable but also offers good protection.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Level of Protection</th>
<th>Comfort and Fit</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom-made</td>
<td>- Impression of individual’s mouth is taken by a dentist</td>
<td>- Offers the best level of protection</td>
<td>- Provides highest level of comfort and fit of the three types of mouthguards</td>
<td>- Expensive</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Made from high quality materials to ensure fit and stay in place</td>
<td></td>
<td>- Obtained through dentist’s office</td>
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<tr>
<td>Boil and bite</td>
<td>- Wearer softens mouthguard in hot water and inserts into mouth after cooling</td>
<td>- Not as good as custom, but more protection than the stock “ready to wear” types</td>
<td>- May inhibit speaking when worn</td>
<td>- Inexpensive</td>
</tr>
<tr>
<td></td>
<td>- Tray is molded and shaped to wearer’s bite using fingers, lips, and tongue</td>
<td>- May lose thickness and cushioning throughout use</td>
<td>- May not stay in place in mouth</td>
<td>- Widely available in sporting goods stores</td>
</tr>
<tr>
<td>Stock, “ready-to-wear”</td>
<td>- Use ‘as bought’ with no preparation</td>
<td>- Offers least protection of the three types of mouthguards</td>
<td>- May inhibit breathing or speaking when worn</td>
<td>- Inexpensive</td>
</tr>
<tr>
<td></td>
<td>- Must be held into place by clenching teeth during use</td>
<td>- Mouth must be closed to provide protection (falls out if mouth is open)</td>
<td>- Limited adaptability</td>
<td>- Widely available in sporting goods stores</td>
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<td></td>
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<td>- Sizes are limited (typically small to large)</td>
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</tbody>
</table>

Tips for Mouthguard Care
- RINSE with cold water or mouthwash before and after use. You can also clean it with a toothbrush and toothpaste.
- CLEAN in cool, soapy water and rinse thoroughly once a week.
- STORE in a durable, perforated container to prevent damage and allow air flow. Keep mouthguard away from direct sunlight and hot environments.
- INSPECT and REPLACE if there are holes/tears, bite-throughs, or distortions. Mouthguards wear out and do not provide the same level of protection once damaged.

Information sources: