Quit Smoking
Before Your Operation

Did you know that before surgery is the best time to quit smoking?

- You will decrease your risk of complications.
- Hospitals are a smoke-free environment, so you won’t be tempted.
- The quit rate is much higher when you quit before your operation.

Do your part and quit now! Your surgical team is here to help.

Smoking Increases Your Risk of Heart and Breathing Problems

Smoking increases the mucus in the airways and decreases your ability to fight infection. It also increases the risk of pneumonia and other breathing problems. Airway function improves if you quit 8 weeks before your procedure.

The nicotine from cigarettes can increase your blood pressure, heart rate, and risk of arrhythmias (irregular heart beat). The carbon monoxide in cigarettes decreases the amount of oxygen in your blood. Quitting at least 1 day before your operation can reduce your blood pressure and irregular heart beats.

Smokers have an increased risk of blood clots and almost twice the risk of a heart attack as nonsmokers.

A smoker is 2.2 times more likely to get pneumonia than a nonsmoker. So if a nonsmoker has a 10 percent risk, a smoker has a 22 percent risk.

*Breathing problems such as coughing, wheezing, and low oxygen levels are increased in smokers.
Smoking Increases Your Risk of Wound Complications

- Smoking interferes with all phases of wound healing. It also decreases the ability of the cells to kill bacteria and fight infection.
- Having a wound infection increases the average length of stay by 2 to 4 days. Quitting 4 weeks before a surgical procedure reduces postoperative complications by 20 to 30 percent.
- Studies identify that patients who smoke have:
  - Increased wound infection and splitting open of the wound in patients having general surgery or hip and knee replacements.
  - Increased sternal (chest bone) wound infection after coronary bypass surgery.
  - Increased wound necrosis (tissue death) after mastectomy and breast reconstruction.
  - Increased incisional and recurrent inguinal hernias.
  - Lack of bone healing after orthopaedic surgery.
  - Significantly higher rates of deep surgical site infections and re-operation following plastic surgery.
  - Greater pain intensity and higher amounts of narcotics needed for pain control.

Smoking Cessation at the Time of Surgery May Be the Best Time to Quit

- Smoking cessation counseling before a surgical procedure increases the quit rate.
- Multiple approaches (counseling plus medication and quit lines) work best to help you stay quit for life.
- You will most likely be receiving pain medication after surgery, which will decrease your withdrawal effects.

Oxygen is needed for your tissues to heal. Smoking can decrease the amount of blood, oxygen, and nutrients that go to your surgical site. A smoker has almost 4 times the risk of tissue damage at the surgical site.

Smoking Increases Your Risk of Cancer Recurrence

- Smoking is known to cause 12 different types of cancer. Cigarette smoking is the number one cause of lung cancer.
- Secondhand smoke causes lung cancer in both children and adults who don’t smoke.
Treatment

The following treatments are proven to be effective for smokers who want help to quit. Be sure to discuss with your doctor what is right for you.

- **Cold turkey**: Quitting on your own because you are motivated to have a successful surgery.

- **Smoking cessation counseling with your doctor/professional**.

- **Telephone counseling**: Call the Quit Line at 1-800-QUIT-NOW (1-800-784-8669). Help is free and all information is confidential.

- **Behavior therapy**: Training to help you cope when you want a smoke.

- **Medications, including**:
  - **Varenicline (Chantix)** and bupropion SR (Zyban) both require a prescription and are started 1 to 2 weeks before quitting.
  - **Nicotine replacement therapy (NRT)** delivers a safer source of nicotine than cigarettes, may decrease the withdrawal effect, and may help prevent overeating.
  - **E-cigarettes are battery-powered devices that provide nicotine and other additives to the user in the form of an aerosol**. The FDA has not approved any of these products for smoking cessation and is studying their harms in adults, teens, and children. \(^8\)

<table>
<thead>
<tr>
<th>Medication</th>
<th>How Do I Take This?</th>
<th>When Do I Begin?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Varenicline*</td>
<td>Orally with a meal and water</td>
<td>1 to 2 weeks before quitting</td>
</tr>
<tr>
<td>Bupropion*</td>
<td>Orally; dose is decreased day by day</td>
<td>1 to 2 weeks before quitting</td>
</tr>
<tr>
<td>Nicotine patch</td>
<td>Apply patch to the skin</td>
<td>Do not smoke; use as directed</td>
</tr>
<tr>
<td>Nicotine gum</td>
<td>Chew</td>
<td>Do not smoke; use as directed</td>
</tr>
<tr>
<td>Nicotine lozenge</td>
<td>Dissolve in the mouth</td>
<td>Do not smoke; use as directed</td>
</tr>
<tr>
<td>Nicotine inhaler*</td>
<td>Spray in the back of the throat</td>
<td>Do not smoke; use as directed</td>
</tr>
<tr>
<td>Nicotine nasal spray*</td>
<td>Spray in the nose</td>
<td>Do not smoke; use as directed</td>
</tr>
</tbody>
</table>

*Available only with a prescription

References


Helpful Resources

**Call a Quit Line at 1-800-QUIT-NOW or 1-800-784-8669**

**SPANISH**: 1-855-DEJELO-YA (1-855-335-3569)

**MANDARIN AND CANTONESE**: 1-800-838-8917

**KOREAN**: 1-800-556-5564

**VIETNAMESE**: 1-800-778-8440

**National Cancer Institute Tobacco Line**

1-877-448-7848 (also available in Spanish)

**American Lung Association**

[https://www.lung.org/quit-smoking](https://www.lung.org/quit-smoking)

**Government Quit Smoking Resources**

[http://teen.smokefree.gov](http://teen.smokefree.gov)
[http://espanol.smokefree.gov](http://espanol.smokefree.gov)
[http://women.smokefree.gov](http://women.smokefree.gov)

**Center of Disease Control**

Quit lines and access to all online state tobacco information:

[https://www.cdc.gov/tobacco/basic_information/for-health-care-providers/quitlines-other/index.html](https://www.cdc.gov/tobacco/basic_information/for-health-care-providers/quitlines-other/index.html)

**American Society of Anesthesiologists**

**Your Action Plan. Doing Your Part for the Best Surgical Recovery.**

[Image of calendar]

Pick the day and mark your calendar.

<table>
<thead>
<tr>
<th>Getting Help</th>
<th>My Action (Write in boxes below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Call the quit line.</td>
<td>1-800-QUIT-NOW or 1-800-784-8669</td>
</tr>
<tr>
<td>Decide on a plan, like using nicotine replacement or going to a smoking cessation class.</td>
<td>My plan instead of smoking:</td>
</tr>
<tr>
<td>If you use varenicline or bupropion, take your dose each day leading up to your quit day as instructed.</td>
<td>Start date for medication:</td>
</tr>
<tr>
<td>Ask your friends and family to support you.</td>
<td>Who will help:</td>
</tr>
<tr>
<td>Remove all tobacco products from your home, car, and work.</td>
<td>I got rid of tobacco on:</td>
</tr>
<tr>
<td>Stock up on oral substitutes like gum or hard candy, carrot sticks, or straws.</td>
<td>Sign:</td>
</tr>
<tr>
<td>Think about any previous quit attempts and what worked and what did not.</td>
<td>What worked:</td>
</tr>
<tr>
<td></td>
<td>What did not work:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>On Your Quit Day</th>
<th>My Action (Write in boxes below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keep busy and active. Drink lots of water or fruit juice.</td>
<td>What I am doing instead:</td>
</tr>
<tr>
<td>Rely on your friends and family for encouragement.</td>
<td>Who is helping?</td>
</tr>
<tr>
<td>Avoid being around other smokers at first as much as possible.</td>
<td>I feel comfortable around:</td>
</tr>
<tr>
<td>Avoid alcohol or coffee if you associated them with smoking.</td>
<td>I need to avoid:</td>
</tr>
<tr>
<td>Change your routine and avoid situations where there is an urge to smoke.</td>
<td>What do I like to do when there is no smoking?</td>
</tr>
</tbody>
</table>

“I Can Quit” Plans

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**DISCLAIMER**

Important Note on the Use of This Document

The American College of Surgeons (ACS) is a scientific and educational association of surgeons that was founded in 1913 to improve the quality of care for the surgical patient by setting high standards for surgical education and practice. The ACS endeavors to provide procedure education for prospective patients and those who educate them. It is not intended to take the place of a discussion with a qualified surgeon who is familiar with your situation. The ACS makes every effort to provide information that is accurate and timely, but makes no guarantee in this regard.