Does caffeine raise blood pressure? [1]

Dear Alice,

Does caffeine raise your blood pressure?

Answer

Dear Reader,

You raise a good question! In people with normal blood pressure, it appears that caffeine may cause a temporary increase in blood pressure. The specific mechanism behind this is unknown. However, some researchers have hypothesized that caffeine either blocks a hormone that helps keep your arteries widened or causes your adrenal glands to release more adrenaline, which results in increased blood pressure. Some folks develop a tolerance to caffeine, and it doesn?t result in a long-term change in blood pressure. Though there?s no evidence to suggest that caffeine can cause high blood pressure (HBP), it?s recommended that those who?ve already been diagnosed with HBP (also called hypertension) temper their caffeine consumption.

For individuals with high-normal blood pressure or diagnosed hypertension, caffeine seems to raise their levels to a much greater degree than those with normal readings. It?s also been noted that caffeine has a stronger blood pressure increasing effect in men who are overweight or older than 70 years old. To mitigate this effect, it?s recommended that these folks try to avoid caffeine.

For reference, classification of blood pressure is as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Systolic in mm Hg (top #)</th>
<th>Diastolic in mm Hg (bottom#)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>&lt;120</td>
<td>and &lt;80</td>
</tr>
<tr>
<td>Prehypertension</td>
<td>120-139</td>
<td>or 80-89</td>
</tr>
<tr>
<td>Stage 1 HBP</td>
<td>140-159</td>
<td>or 90-99</td>
</tr>
</tbody>
</table>
Stage 2 HBP

| >160 | or | >100 |

For your average joe, it's probably a good idea to refrain from ingesting caffeine just before a blood pressure test. It could trigger a temporary rise, resulting in an inaccurate reading. Coffee may be the most likely culprit, but chocolate, soda, and energy drinks have varying amounts of caffeine as well. For those who aren't sure whether caffeine affects their blood pressure, try measuring your blood pressure before your next cup of coffee (or caffeinated food stuff) and again within 30 to 120 minutes afterward. If your blood pressure goes up by 5 to 10 points in that period of time, it may indicate sensitivity to the effects of caffeine.

Cutting out caffeine may be good choice for some, but it's recommended to do so gradually to avoid experiencing withdrawal symptoms. Can't give up good ol' java? Decaffeinated coffee may serve as a suitable substitute, with a typical caffeine content of about 5 milligrams (mg) per 8 ounce (oz.) cup (versus around 135 mg of caffeine for the regular brew). Hot cocoa is a choice that also contains approximately 5 mg of caffeine per 8 oz. mug (with an added bonus of calcium and er? chocolate!) for those seeking an alternative beverage altogether. There are also herbal teas, which contain no caffeine and are available in a variety of flavors. A health foods store may also have a few additional offerings, including non-caffeinated herbal or grain beverages.

Alice!
Category:
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Caffeine, Energy Boosters, & Other Performance Enhancing Drugs

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Medical Services (CUMC)
Published date:
Sep 06, 2001
Last reviewed on:
Mar 05, 2015
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