Healthy Eating: Folate

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What is folate?
Folate is one of the B vitamins. It is involved in the formation of DNA, the genetic material found in all cells of your body. Folate is an important nutrient for everyone. It is especially important for pregnant and nursing women, growing children, and older adults. Health problems may result if people do not get enough folate.

Folic acid is the form of folate found in fortified foods. Fortified foods are foods with added nutrients, usually vitamins and minerals. Folic acid also is the form of the vitamin found in dietary supplements. Check the Nutrition Facts panel on food labels to see which nutrients are listed.

What foods contain folate?
The word folate comes from the same Latin word as foliage or leaves. Some of the best food sources of folate are dark green leafy vegetables, like spinach, collards, and kale. Other foods high in folate are oranges and orange juice, legumes (dried beans and lentils), and peanuts. Fortified grain foods, like cereals and breads, contain the form of folate called folic acid.

What happens if I do not get enough folate?
When you do not get enough folate, your body cannot make the DNA it needs. A lack of folate is especially a concern when the body is making new cells during pregnancy and early development of the fetus.
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childhood. Everyone’s body makes new cells every day, so we all need folate in our diets.

Eating folate-rich foods may reduce your chances of developing:

- Anemia
- Heart disease
- Stroke
- Cancer
- Memory problems

How much folate do I need?

People 19 years old and older need 400 micrograms (mcg) of dietary folate equivalents (DFE) a day. Pregnant women need an extra 200 mcg, and nursing moms need an extra 100 mcg a day.

Eat foods naturally high in folate and foods fortified with folic acid to get 400 mcg of DFEs each day. You can take a multivitamin supplement that contains folic acid if you cannot get enough of this vitamin from the foods you eat. Check the Supplement Facts section of the label to see how much folic acid is in the supplement. One microgram of folic acid in a supplement provides 2 mcg of DFE (when you take it on an empty stomach). In contrast, 1 mcg of natural folate in foods provides 1 mcg of DFE.

Avoid getting too much folic acid, which can happen if you take supplements and eat a lot of fortified foods. Getting too much folic acid can hide the signs of a vitamin B_{12} deficiency, and vitamin B_{12} is also an important vitamin in our diet. People over 50 may be at risk for not getting enough B_{12}. For optimal absorption, it is best for people over 50 to get vitamin B_{12} from fortified foods or a vitamin supplement. Many breads and cereals are fortified with vitamins, including vitamin B_{12}. Check the ingredient list and Nutrition Facts panel and select some foods that have added vitamin B_{12}.

How much is 400 micrograms?

Micro means small and 400 micrograms is a very small amount. A microgram is only one-millionth of a gram—and a gram of anything is already a tiny amount. No wonder folate is called a micronutrient! Although micronutrients are required in very small quantities, they are essential for our bodies to function.

Here are some foods and the amount of folate they contain:

Table 1. Food sources of folate

<table>
<thead>
<tr>
<th>Food</th>
<th>Folate (microgram/serving)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fortified ready-to-eat breakfast cereal, 1 serving</td>
<td>200–700</td>
</tr>
<tr>
<td>Spinach, ½ cup cooked</td>
<td>130</td>
</tr>
<tr>
<td>Romaine, 1 cup shredded</td>
<td>75</td>
</tr>
<tr>
<td>Kidney beans, ½ cup cooked</td>
<td>65</td>
</tr>
<tr>
<td>Orange juice, ¾ cup</td>
<td>45</td>
</tr>
<tr>
<td>Orange, 1 medium</td>
<td>40</td>
</tr>
<tr>
<td>Peanuts, dry roasted ½ cup</td>
<td>40</td>
</tr>
</tbody>
</table>

Where can I get more information?

A registered dietitian or your local UF/IFAS Extension office may have more written information or nutrition classes for you to attend. In Florida, find your local UF/IFAS Extension office at http://solutionsforyourlife.ufl.edu/map.

Call your local Area Agency on Aging for information about meal programs and other services for older adults offered in your area. Reliable nutrition information may be found at the following websites:

http://www.nutrition.gov/
http://foliacidinfo.org
http://www.usa.gov/Topics/Seniors.shtml
http://www.mayoclinic.com/
http://aoa.gov