



August 2011

This FAQ is meant to answer many key questions about the benefits of fluoridation and address the federal announcements.

**Q: What is fluoride and how does it benefit dental health?**

A: Fluoride is a mineral that exists naturally in nearly all water supplies. Research proves that at a certain level in drinking water, fluoride prevents tooth decay. This optimal level is reached when a public water system adjusts—either increasing or lowering—the level of fluoride.

**Q: I recently found the website of a group that opposes fluoridation. This group claims that the connection between fluoridation and cavity prevention isn't solid. Is that true?**

A: No, it is not true. There is solid, consistent evidence supporting fluoride's role in cavity prevention. Studies show that fluoridation reduces tooth decay by 18 to 40 percent. Two studies released in 2010 strengthened the already substantial evidence that fluoridated water prevents cavities.

**Q: Does fluoride in drinking water protect only the teeth of children or does it benefit everyone?**

A: People of all ages benefit from drinking water that is optimally fluoridated. Oral health is important throughout a person's life. In the 1950s, before water fluoridation was common, most people over the age of 65 had lost their teeth. Now, after decades of widespread fluoridation, more seniors are keeping most or all of their teeth. Between 1972 and 2001, the rate of edentulism—losing all of one's teeth—dropped 26 percent among lower-income seniors and fell 70 percent among upper-income seniors.

**Q: What do leading medical and health organizations say about drinking water that is optimally fluoridated?**

A: The American Academy of Pediatrics, the American Dental Association, the American Medical Association and many other respected medical or health organizations recognize the health benefits of fluoridation. The U.S. Centers for Disease Control and Prevention called water fluoridation "one of 10 great public health achievements of the 20th century."

**Q: Federal health officials recently recommended that public water systems reduce the level of fluoride in drinking water. Exactly what was the recommendation and why was this new level set?**

A: In January 2011, the U.S. Department of Health and Human Services (HHS) recommended that the optimal level of fluoride in public water systems should be 0.7 milligrams per liter (mg/L) of water. This is a change from the previous recommendation that the optimal level would vary by a region's climate (average temperatures) within the range of 0.7 to 1.2 mg/L. This new recommendation by HHS recognizes these scientific findings: 1) Americans today are getting fluoride from more sources than they were when the original level was set, and 2) the water intake of children does not vary by climate or region. This new fluoride level demonstrates

that federal health officials are periodically reviewing research and relying on the best science to update—if and when appropriate—their recommendations on fluoridated water.

**Q: Are many communities planning on completely removing fluoride from water because of the recent federal announcement on the fluoride level?**

A: Many communities are reviewing their fluoride levels and planning to adjust those levels to meet the new recommendation. There is no sign that many communities either want or plan to remove fluoride entirely. HHS and leading health experts do *not* support removing fluoride from water to a level below the recommended level because this would deprive people of cavity protection. In fact, the American Dental Association welcomed HHS' new fluoride level and said that water fluoridation remains “one of our most potent weapons in disease prevention.” In Grand Rapids, Michigan—the first U.S. city that optimally fluoridated its water system—the city's daily newspaper wrote an editorial noting that the new HHS recommendation “should not feed the flawed notion . . . that fluoride must be removed entirely from drinking water.”

**Q. What impact will the new fluoride level have on Americans who are served by a public water system that's fluoridated?**

A: The new optimal fluoride level that federal health officials have recommended will have a positive impact. First, it will continue to protect teeth by helping to reduce tooth decay. Second, the new level will minimize the chances of fluorosis, a condition that typically causes a minor discoloration of teeth that is usually visible only to a dentist. The new HHS recommendation reflects the fact that Americans today receive fluoride from more sources (toothpaste, mouth rinses and other products) than they were getting several decades ago.

**Q: How many Americans receive water that is optimally fluoridated?**

A: Roughly 72 percent of Americans whose homes are connected to a community water system receive fluoride-adjusted water. Some communities have been doing so for over 60 years.

**Q: Water fluoridation helps to prevent tooth decay, but is that really a concern in the U.S. anymore?**

A: Yes, it remains a concern. Although dental health has improved for many Americans, tooth decay remains the most common chronic childhood disease—five times more prevalent than asthma. Tooth decay causes problems that often last long into adulthood, affecting kids' schooling and their ability to get jobs as adults.

**Q: If I use fluoridated toothpaste, am I getting enough fluoride to protect against decay?**

A: No. The benefits from water fluoridation build on those from fluoride in toothpaste. Studies conducted in communities that fluoridated water in the years after fluoride toothpastes were widely used have shown a lower rate of tooth decay than communities without fluoridated water. The author of a 2010 study noted that research has confirmed “the most effective source of fluoride to be water fluoridation.” Water fluoridation provides dental benefits to people of all ages and income groups without requiring them to spend extra money or change their daily routine.

**Q: Do any states have laws guaranteeing residents' access to fluoridated water?**

A: Twelve states and the District of Columbia have laws designed to ensure access to fluoridated water. Forty-three of the 50 largest cities in the U.S. fluoridate their drinking water. Research shows that every \$1 invested in water fluoridation saves \$38 in unnecessary dental costs.

