IN THEIR OWN WORDS

What Respected Organizations
Say About the Safety and Effectiveness
of Community Water Fluoridation





Visit our website at <u>www.iLikeMyTeeth.org</u>

Academy of General Dentistry

"Fluoride makes the entire tooth structure more resistant to decay and promotes remineralization, which aids in repairing early decay before damage is even visible. Studies have confirmed the most effective source of fluoride to be water fluoridation."

"Instead of drilling holes to fix cavities, dentists would rather educate the public on how to avoid developing tooth decay in the first place. Drinking tap water to receive fluoride is safe, and it's easier on your wallet than going to the dentist for a filling."

American Academy of Pediatrics

"Fluoride plays a very important role in the prevention of dental caries. Although the primary mechanism of action of fluoride in preventing dental caries is topical, systemic mechanisms are also important."³

"Water fluoridation is a cost-effective means of preventing dental caries, with the lifetime cost per person equaling less than the cost of 1 dental restoration. In short, fluoridated water is the cheapest and most effective way to deliver anticaries benefits to communities."



American Academy of Pediatrics (New York State Chapter)

"Community water fluoridation is safe, effective and necessary to prevent chronic dental disease in pediatric populations."

"Dental decay is a common but preventable, chronic disease. It is our youngest children who are at the greatest risk for developing early dental disease while not having access to a dental care home. ... Without community water fluoridation the incidence of this disease and its attendant complications will increase." 5

American Academy of Family Physicians

"Fluoridation of public water supplies is a safe, economical, and effective measure to prevent dental caries."⁷

American Association for the Advancement of Science

"... fluoridation of community water supplies is repeatedly demonstrating that it is an effective public health measure for the mass partial control of dental cavities, and ... [AAAS is] on record as endorsing fluoridation of community water supplies as a method for advancing dental public health, at this 121st meeting of the AAAS." 10

American Association of Oral and Maxillofacial Surgeons

"Community water fluoridation, which adjusts the fluoride in water to a level sufficient for preventing and controlling tooth decay, reduces tooth decay by 30–50%."

"Although great progress has been made, nearly 28% of public water systems do not have the capacity to deliver—and approximately 100 million Americans do not have access to—optimally fluoridated water. Many communities need support to upgrade or purchase new water systems and fluoridation equipment."¹¹

American Association of Public Health Dentistry

"... it has been shown that children with the greatest dental need and who are at highest risk for tooth decay benefit the most from water fluoridation."

"The Association recommends that federal, state, and local agencies and organizations promote water fluoridation as the foundation for better oral health." ¹²

American Council on Science and Health

"Fluoride is harmless at the levels necessary for maximum (dental) benefits. Thousands of studies on fluorides and fluoridation have been completed in the last 50 years — more than 3,700 since 1970

alone. Over 50 peer-reviewed epidemiological studies have dealt with the claim that fluoridation increases cancer risk. None has substantiated the claim."¹⁴



American Dental Association

"Studies conducted throughout the past 65 years have consistently shown that fluoridation of community water supplies is safe and effective in preventing dental decay in both children and adults. Simply by drinking water, children and adults can benefit from fluoridation's cavity protection whether they are at home, work or school." ¹⁵

American Dental Education Association

"It has been called one of the 10 great public health achievements of the 20th century, yet 70 years after its introduction in the United States, community water fluoridation can no longer be taken for granted."

"ADEA supports and encourages fluoridation of community water supplies and the use of topical fluoride." ¹⁶

American Dental Hygienists' Association

"Good scientific evidence supports the use of community water fluoridation and the use of fluoride dental products for preventing tooth decay for both children and adults.

"Adjusting the level of fluoride in drinking water first used fluoride as a preventative for tooth decay in Grand Rapids, Michigan. Fluoridation of drinking water has been used successfully in the United States for more than 50 years." ¹⁷

American Dietetic Association

"The American Dietetic Association reaffirms that fluoride is an important element for all mineralized tissues in the body. Appropriate fluoride exposure and usage is beneficial to bone and tooth integrity and, as such, has an important, positive impact on health throughout life." ¹⁸

American Federation of Teachers

"The good news is that tooth decay and other oral diseases are preventable. The combination of dental sealants and fluoride has the potential to nearly eliminate tooth decay in school-age children." 19

American Medical Association

"The AMA urges state health departments to consider the value of required statewide fluoridation (preferably a comprehensive program of fluoridation of all public water supplies, where these are fluoride deficient), and to initiate such action as deemed appropriate."²⁰

American Osteopathic Association

"The American Osteopathic Association supports the fluoridation of fluoride-deficient public water supply."²²

American Public Health Association

"[The U.S. Department of Health and Human Services] announced proposed recommendations to simplify the recommended optimal level for community water systems to 0.7 mg/L fluoride ... APHA continues to support community water fluoridation as a sound public health preventive measure."²³

"Much of the credit for the nation's better oral health can be attributed to the decision in the 1940s to begin adding fluoride to public drinking water systems."²⁴



American Society for Clinical Nutrition

"... the American Society for Clinical Nutrition agrees that fluoridation of community water supplies to an optimum level wherever the natural level is less than optimum is a safe, economical, and effective measure to improve dental health by improving nutrition."²⁵

American Water Works Association

"The American Water Works Association supports the recommendations of the World Health Organization, American Medical Association, Canadian Medical Association, Centers for Disease Control, American Dental Association, Canadian Dental Association, and other national organizations in the medical community, for the fluoridation of public water supplies as a public health benefit."

Andrew Burnham, Secretary of State for Health (2009-10), United Kingdom

"Let's press ahead with fluoridation of water supplies, given the clear evidence that it can improve children's dental health."²⁷

Association of California Water Agencies

"ACWA is a diverse state wide organization representing nearly 450 public water agencies that collectively supply 90% of the water delivered in California for domestic, agricultural and industrial uses. California enjoys some of the highest water quality in the world.

"... ACWA reaffirms its support for water fluoridation and strongly believes that its benefits need to be continued to communities served by centralized water systems." 28

Association of State & Territorial Dental Directors

"Community water fluoridation remains the cornerstone of dental caries prevention in the United States and has been demonstrated to be safe, cost-effective and beneficial through every stage of life and for all people, regardless of age, race, ethnicity or socio-economic status."²⁹

Audrey F. Manley, MD, MPH, Surgeon General under President Bill Clinton

"Water fluoridation continues to be the cornerstone of community oral disease prevention. The benefits of fluoridation are available, on average, for little more than \$0.50 per person per year, and even less, in large communities."³⁰

Australian Dental Association

"Drinking fluoridated water several times a day is the ideal way to give your teeth a quick fluoride treatment.

"... Fluoride from fluoridated water is found in saliva and provides a wonderful, low concentration fluoride treatment for your teeth." ³¹



Benjamin Spock, MD - Pediatrician and best-selling author

"The fact is that I started out as somewhat skeptical and cautious about fluoridation in the 1940's and early 1950's. But then I became a firm believer as proof was assembled by scientists in the 1950's and afterwards that fluoridation of a water supply will reduce the production of tooth cavities ... and, just as important, that no disease or defect is caused by this procedure.

"Obviously, [fluoride] is a natural, though varying, ingredient of water. Because of this, any long-term bad effect could be — and was — searched for in those people who had drunk water with a moderate or high concentration all their lives. ... The story of how fluoridation's value was discovered is not only fascinating, but should also be reassuring to some doubters since it reveals that the early researchers had no bias, no axe to grind. They were simply looking for answers to certain dental problems."33

British Dental Association

"The BDA is pleased with [a program to expand fluoridation in southwest England] because it is likely to encourage consultation on similar schemes in other parts of the country where fluoride could help address the poor dental health of the population.

"A recent European summary of the latest scientific evidence reiterated the view that water fluoridation is a safe and effective method of reducing oral health inequalities." 35

British Dental Health Foundation

"Fluoride was added to the Birmingham supply in 1964 and the difference in dental health compared to the neighbouring population in non-fluoridated Sandwell was stark. When Sandwell's water was fluoridated in 1987 it transformed levels of oral health, putting a poor borough amongst the top ten areas for dental health in the country."³⁶

British Medical Association

"The BMA remains committed to the fluoridation of mains water supplies, after appropriate public consultation, on the grounds of effectiveness, safety and equity." ³⁷

British Working Party on the Fluoridation of Water and Cancer

"There is ample evidence, from many places and over many years, that fluoridation of the public water supply leads to a substantial reduction in dental caries, with all that means in prevention of suffering, inconvenience and unnecessary cost. It can be shown that the beneficial effect of fluoride is significant, whatever other measures are taken in relation to sound nutrition and preventive dental practice.

- "... We have reviewed studies of cancer rates in relation to fluoride naturally present in drinking water and in relation to fluoridation of water supplies. We have found no evidence in these studies to suggest that fluoride or fluoridation is associated with increased cancer rates. ... Indeed, the populations with greater exposure to fluoride in water tended to have slightly lower rates of cancer mortality and incidence.
- "... We have found nothing in any of the major classes of epidemiological evidence which could lead us to conclude that either fluoride occurring naturally in water, or fluoride added to water supplies, is capable of inducing cancer, or of increasing the mortality from cancer."³⁸

Canadian Dental Association

"Fluoride is added to public drinking water to protect all members of the community from tooth decay. Community water fluoridation is a safe and effective way of preventing tooth decay at a low cost."³⁹



Canadian Public Health Association

"In 1945, Brantford, Ontario became the first Canadian community to test water fluoridation, thereby achieving a 54% reduction in decay experienced by 8-year-olds."

"In Quebec, for instance, less than 7% of the population has access to fluoridated water. A study of the oral health of children between 1990 and 1999 found that kindergarten children in Quebec had 40% more cavities than children in Ontario and the United States, and that tooth decay affects 56% of Quebec children in Grade 2."40

Centers for Disease Control and Prevention

The CDC named the "fluoridation of drinking water" as one of "10 great public health achievements" of the 20th century.⁴¹

C. Everett Koop, MD, Surgeon General under President Ronald Reagan

"... I encourage the dental profession in communities which do not enjoy the benefits of an optimally fluoridated drinking water supply to exercise effective leadership in bringing the concentration to within an optimum level."⁴²

Children's Dental Health Project

"Water fluoridation is particularly beneficial during childhood and in adolescence when cavity experience first begins. Not only do children who drink fluoridated water have fewer cavities but their cavities are smaller and less deep when they do occur."43

Children's Hospital of Pittsburgh

"Just how effective is fluoridated water? Thanks to it, dentists say half of kids between 5 and 17 have never had a cavity in their permanent teeth." 45

Council of State Governments

"... states need to reduce expenditures in Medicaid budgets and studies have proven that communities benefiting from fluoridated water use fewer Medicaid dollars to treat dental decay.

"... simply by drinking water, everyone, especially those without access to regular dental care, can benefit from fluoridation's cavity protection whether they are at home, work or school."46



David Butler Jones, Chief Public Health Officer of Canada (2004-2014)

"The Public Health Agency of Canada supports water fluoridation for our oral health. Simply put, it is a safe and cost effective public health measure which has the potential to benefit everyone, regardless of age, socioeconomic status, education, or employment."⁴⁷

David Satcher, MD, PhD, Surgeon General under Presidents Bill Clinton and George W. Bush

"Of the 50 largest cities in the country, 43 are fluoridated. A significant advantage of water fluoridation is that anyone, regardless of socioeconomic level, can enjoy these health benefits during their daily lives—at home, work, or at school or play—simply by drinking fluoridated water or beverages prepared with fluoridated water."⁴⁸

"Other evidence of the benefits of fluoridation comes from studies of populations where fluoridation has ceased. Examples in the United States, Germany, and Scotland have shown that when fluoridation is withdrawn and there are few other fluoride exposures, the prevalence of caries increases.

"In Wick, Scotland, which began water fluoridation in 1969 but stopped it in 1979, the caries prevalence in 5- to 6-year-olds with limited exposure to other sources of fluoride increased by 27 percent between 1979 and 1984. This was despite a national decline in caries ..."49

Deborah Blum - Pulitzer Prize-winning science writer

"... fluoridation protects, rather than harms, public health. ... I want to take a moment to further discuss — or perhaps I mean debunk — the notion that anti-fluoride groups are heroically battling some evil industrial compound. Because what they are really battling is compounds that derive from the naturally occurring element fluorine (F)."50

U.S. Department of Defense

"Dental decay continues to be a major problem for military personnel and is a significant reason for personnel to be classified as non-deployable.... By far, the most effective preventive program for preventing dental decay is water fluoridation. I request that your office ensure that all DoD facilities operating a water treatment facility that services over 3,300 personnel provide optimally fluoridated water ..."51

Ernie Mueller, Alaska's former Commissioner of Environmental Conservation

"I followed [the fluoridation issue] through my 35-year career in water and wastewater research, supervision and management. ... What is disturbing is that the inflammatory and misleading rhetoric used by some of the opponents of fluoridation frightens many people who may not have personal knowledge of the issue." 53

Europe

"Europe and Latin America have successful programs of salt fluoridation. The automatic prevention of dental caries using fluoridated salt commenced in 1955 in Switzerland. Currently, the number of users of such salt is approaching 300 million, almost 200 million in Latin America and 70-80 million in Europe." 54

European Academy of Paediatric Dentistry

The European Academy of Paediatric Dentistry expressed its conclusions in a 2009 journal article in the European Archives of Paediatric Dentistry:

"Water fluoridation is the controlled adjustment of the natural fluoride concentration in drinking water to that recommended for optimal dental health. Water fluoridation is effective at reducing [decay] . . . It is socially equitable, in that it is available to all social groups and ages.

"The EAPD reaffirms its support for the use of water fluoridation as a community-based intervention to prevent dental caries."

"Two evidence-based reviews indicate that there is limited support that fluoridated milk has a [cavity]-preventive effect.... fluoridated salt is probably less effective among small children due to the low salt diet now recommended for this age group."55



Florida Department of Elder Affairs

"Fluoridation of community drinking water, and the regular use of other fluoride products, are responsible for the dramatic reductions in tooth decay experienced by infants, children, and adults of all ages in the United States.

... Because older Americans are now keeping their teeth longer, fluoride will continue to be even more important for preventing tooth decay in this age group. Older Americans are especially susceptible to tooth decay because of exposed root surfaces and mouth dryness that may result from many of the medications they might be using to treat certain chronic conditions."56

Florida Public Health Institute

"Community water fluoridation is safe, effective, economical and available to all consumers of a fluoridated community water supply regardless of age, income, education, or socioeconomic status. Income and the ability to access regular dental care are not barriers to receiving fluoride's protective benefits." ⁵⁷

GreenFacts.org

"The numerous studies carried out in many countries on populations consuming fluoridated drinking water did not show any consistent evidence of an association between the consumption of controlled fluoridated drinking water and increased frequency of cancer." 58

Hispanic Dental Association

"... it is the position of the Hispanic Dental Association to:

"Endorse community water fluoridation in all communities—especially the Hispanic and underserved communities—as a safe, beneficial and cost-effective public health measure based on science for preventing dental caries and to aid in the reduction of oral health disparities.

"... Encourage local dental and/or oral health societies and the community at-large, to work with state and local governments and their agencies, in support of community water fluoridation." 59

Idaho Medical Association

"The IMA has historically taken a leadership role in public health and safety issues. Its proactive support for polio immunization, public water fluoridation, civil defense planning, cigarette warning labels, use of seat belts, child abuse reporting, motorcycle helmet use, day care licensing, cigarette taxes, minimum drinking age, and immunization of schoolchildren has positively impacted the quality of life and health of all Idahoans." ⁶⁰

Indiana State Department of Health

"Despite the fact that thousands of studies, analyses, and experiments have shown fluoridation to be safe and effective, some insist that it cease until all doubts about its safety have been resolved. Of course, it is impossible to prove the absolute safety of anything. But in the case of fluoridation, opponents are constantly making new allegations, none of which are supported by science." 61

Indian Health Service (U.S. Department of Health and Human Services)

"An effective community water fluoridation program should be the cornerstone of all public oral health programs."



"Recent studies have found a smaller difference in the caries prevalence between optimally fluoridated and fluoride-deficient communities. In American Indian/Alaska Native populations the expected reductions in disease may be even greater, given the high caries rates." 62

Institute of Medicine

A panel of the IOM examined the issue of oral health access and issued a 2011 report that included this finding:

"Evidence continues to reaffirm that community water fluoridation is effective, safe, inexpensive, and is associated with significant cost savings." 64

Institute for Science in Medicine

"The scientific consensus over fluoridation's health benefits, safety, social justice, and economies has been firmly established over six decades of widespread use in the United States and elsewhere. Nevertheless, anti-science critics have never relented in their opposition — recycling previously disproven charges of harm, inventing new ones out of whole cloth, misrepresenting scientific facts and research, exaggerating risks, understating benefits, inappropriately invoking the precautionary principle, and accusing public health officials of corruption, conspiracy, and 'mass medication' of whole populations." 65

International Agency for Research on Cancer

"Fluoridation of drinking-water was introduced in the USA in 1950, and thus the studies in the USA encompass periods of observation of 20 years or more. ... The studies have shown no consistent tendency for people living in areas with high concentrations of fluoride in the water to have higher cancer rates than those living in areas with low concentrations or for cancer mortality rates to increase following fluoridation."

"Since a large number of comparisons were made, some would be expected by chance alone to show differences. However, no consistent difference has been seen, and there have been as many significant negative associations between fluoridated water supplies and cancer incidence or mortality as there have been positive associations."

"... Epidemiological studies have shown no association between the presence of fluorides in drinking-water and the incidence of Down's syndrome." 66



International Association of Dental Research

"The International Association for Dental Research (IADR), considering that dental caries (tooth decay) ranks among the most prevalent chronic diseases worldwide ... and taking into account that over 50 years of research have clearly demonstrated its efficacy and safety; and noting that numerous national and international health-related organizations endorse fluoridation of water supplies; fully endorses and strongly recommends the practice of water fluoridation for improving the oral health of nations." 67

Iowa Nurses Association

"Extensive scientific documentation over the past half-century has established and consistently reaffirmed that fluoridation of community water supplies is the safest and the most cost-effective community based method of preventing dental caries, regardless of socio-economic status." ⁶⁸

Iowa Public Health Association

"The combination of daily oral hygiene practices in the home, regular dental care, and community water fluoridation has the potential to significantly reduce tooth decay and gum disease in children and adults." ⁶⁹

Irish Forum on Fluoridation

Note: The Forum on Fluoridation was appointed by Ireland's government to study the impact of water fluoridation on the Irish people. The Forum published its report in September 2002. The very first conclusion of this report is below:

"Water fluoridation has been very effective in improving the oral health of the Irish population, especially of children, but also of adults and the elderly."⁷⁰

John H. Armstrong, MD, Surgeon General of the State of Florida

"Today, fluoridation is still the most cost-effective way to prevent dental cavities. It is an ideal public health measure where everyone benefits, whether rich or poor, no matter the age, without requiring any conscious effort of the individual.

"Beginning in Gainesville in 1949, Florida cities have embraced the concept of fluoridation for their citizens. Approximately 13 million people are currently benefiting from fluoridation in Florida. ... National surveys of oral health dating back several decades document the continued benefit of fluoride in decreasing tooth decay in children and adults. It is doubtful that any other public health procedure has undergone more research, epidemiological study and intense public scrutiny than water fluoridation."⁷¹

Joseph Thompson, MD, Surgeon General of the State of Arkansas

"Water fluoridation was trumpeted by the CDC as one of the most important health measures of the 20th century. Now that we are in the 21st century, every community and water system not currently providing this benefit to their residents and customers needs to step up and help their community and its residents."⁷²

Linus Pauling, winner of the Nobel Prize (1954) and National Medal of Science (1974)

Note: Opponents of water fluoridation often label fluoride as "toxic" or "poison." Linus Pauling debunked this assertion in a 1967 article, writing:

"In this respect, fluoride ion is similar to many other substances, such as vitamin D, that are harmful in large amounts but are required in small amounts for life and good health of human beings."⁷³

Massachusetts Dental Society

"...we also have come to realize that the issue of fluoride, to some, is less about science and more about emotion. The groups and individuals questioning the safety of fluoride

tend to forget that many dentists are parents, too. Why would we advocate for water fluoridation if we believed that it would be compromising our own children's health in any way?"⁷⁵

Massachusetts Medical Society

In 2014, the Society created a video and web page that promoted "the importance of dental insurance, how poor oral health can lead to oral cancers, the role of diet in oral health, and the benefits of fluoridation." ⁷⁶

The Mayo Clinic

"Adding fluoride to public water supplies has helped decrease tooth decay significantly. If you drink only bottled water that doesn't contain fluoride, you'll miss out on its benefits."⁷⁷



Michigan Department of Community Health

"Community water fluoridation has proven to be safe through both practical experience and research. During the past 40 years, over 4,000 studies have measured and confirmed the safety of fluoride. Community water fluoridation has been studied more thoroughly than any other public health measure."⁷⁸

Mississippi State Department of Health

"Water fluoridation is an effective, safe and inexpensive way to prevent tooth decay. ... In Mississippi, the cost of water fluoridation is usually between one and two dollars per person per year and saves \$16-\$19 per person per year in dental treatment costs."80

National Consumers League

"Bottled water consumption has doubled over the past decade and as a result, the exposure to fluoride from tap water, which can not only prevent tooth decay, it can repair tooth decay, has been reduced as well."

"Oral health is a critical component of overall health, and we need to spread the word about the importance of brushing with fluoridated toothpaste twice a day, drinking tap water wherever possible, and seeing the dentist twice a year. The benefits will pay off exponentially."⁸¹

National Black Caucus of State Legislators

"... Therefore, Be It Resolved, that the National Black Caucus of State Legislators (NBCSL) recognizes the importance of community water fluoridation as a safe, cost-effective public health intervention proven to prevent tooth decay and reduce oral health disparities;

"Be It Further Resolved, that the NBCSL urges state and local governments to implement and maintain optimal levels of water fluoridation in public water supplies."82

National Dental Association

"As a result of water fluoridation half of all children ages 5 to 17 have never had a cavity in their permanent teeth. Despite the overwhelming evidence of the value of water fluoridation, 34% of the population still does not have access to fluoridated water. Water fluoridation would save over \$1.5 billion per year."83

National Institute of Dental and Craniofacial Research

"Although dental caries remains a public health worry, it is no longer the unbridled problem it once was, thanks to fluoride." ⁸⁶

National Network for Oral Health Access

"Tooth decay is an infectious disease, and a lack of prevention can result in high dental costs for tooth restoration, extraction, and emergency room visits. This represents significant societal costs in avoidable dental and medical bills, lost productivity and missed educational opportunities. Fortunately, community water fluoridation — adjusting the fluoride concentration in the water supply to a level beneficial to reduce tooth decay and promote good oral health — prevents cavities and saves money.

"...There has always been a small, but vocal, opposition to community fluoridation. Some opponents to community fluoridation point to toothpaste, mouth rinse and certain bottled waters as adequate for good oral health, in spite of evidence to the contrary."⁸⁷

National PTA (Parent-Teacher Association)

"PTA involvement laid the groundwork for cooperative partnerships with medical associations and health organizations in the decades to come. ... [PTA also worked] to educate members about other immunizations and treating water with fluoride to prevent rampant dental problems."88

Nevada State Medical Association

"... the NSMA and its component medical societies support legislative efforts to promote community water fluoridation at optimal levels to decrease the incidence of dental caries." 89

New Mexico's State Epidemiologist

"Community water fluoridation is a scientific, evidence-based strategy that has been proven to help prevent oral disease."90

Office on Head Start - The National Center on Health

"Fluoride is the safest and best way to prevent tooth decay. ... it's important to drink tap water instead of bottled water because bottled water may not have fluoride." ⁹¹

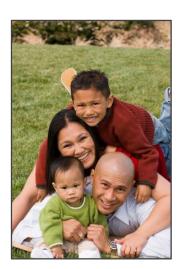
Oklahoma State Department of Health

"It is recommended that all public water systems in Oklahoma be fluoridated to provide this cost-effective oral disease prevention measure to residents throughout Oklahoma." 92

Oral Health America

"Preventing and controlling diseases includes adequate financing of organized activities to promote and ensure the public's oral health through education, applied dental research, and the implementation of cost effective measures such as community water fluoridation and school dental sealant programs. ... Every dollar invested in community water fluoridation yields approximately \$38 in savings on dental treatment costs."

"Fluoride is not just for kids; it is as important for older adults as it is for other age groups. Tooth decay is as much of a problem for older adults, especially along the gum line and on root surfaces. Adults who have lived in a fluoridated community have significantly fewer decayed teeth than those in a non-fluoridated community." ⁹⁴



Oregon Medical Association

"OMA recognizes the health benefits of fluoridation and has long stood in support of fluoridating public water supplies."

"OMA reaffirms its support for fluoridation of all public water supply systems ..."95

Pew Charitable Trusts

"The Pew Charitable Trusts supports water fluoridation because it's one of the most cost-effective strategies for states and communities to improve the oral health of their residents. Although a number of communities in the U.S. have been fluoridating their public water systems for more than 60 years, this strategy has been called into question by anti-fluoride activists who have posted many online attacks against this health practice.

"...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." ⁹⁶

The Platform for Better Oral Health in Europe

"It is safe, cost-effective and has a demonstrable benefit ... Water fluoridation is consequently one of the few public health interventions that directly reduces disparities in dental decay between high and low socioeconomic status groups."97

Public Health England

This British health agency examined the scientific evidence related to fluoridation's effectiveness and safety, and then issued a 2014 report with its conclusions.

"The report provides further reassurance that water fluoridation is a safe and effective public health measure." 98



Public Health Law Research (Temple University)

"Fluoride is a mineral that has been proven effective at preventing tooth decay."

"... In the judgment of a Community Guide expert panel, there is significant evidence to support water fluoridation as an effective public health intervention aimed at reducing tooth decay." 99

Richard H. Carmona, MD, Surgeon General under President George W. Bush

"Water fluoridation is a powerful strategy in our efforts to eliminate differences in health among people and is consistent with my emphasis on the importance of prevention.

"... Fluoridation is the single most effective public health measure to prevent tooth decay and improve oral health over a lifetime, for both children and adults." 100

Robert Wood Johnson Foundation

"... H. Trendley Dean, a dentist working for the National Institutes of Health, began to study the dental health status of children and adults living in more than a dozen communities with differing levels of fluorides. ... During the late 1930s and the early 1940s Dean published his findings in reports issued by the Public Health Service. Subsequently, controlled experiments comparing the incidence of dental decay in children living in communities having fluoridated water with that of children living in non-fluoridated communities showed that the addition of fluoride to public drinking water supplies could reduce dental caries in children by more than 50 percent.

"It was the single greatest discovery in the history of dental medicine, and the resulting fluoridation of drinking water supplies in many communities in the nation (starting with Grand Rapids, Michigan, in 1945) is estimated to have saved hundreds of millions of dollars a year in dental restorations."

"... the final results of the Foundation's National Preventive Dentistry Demonstration Program (in the 1980s) confirmed the general decline in childhood tooth decay levels that had been observed earlier. The study also strongly reaffirmed the value of fluoridated water in reducing dental decay. For example, children in grades 1 and 2 who lived in fluoridated communities but did not receive preventive treatment in the program experienced a 30 percent smaller increase in tooth decay than their counterparts from non-fluoridated communities."

Robert Wood Johnson University Hospital

"Fluoride, either applied topically to erupted teeth, or ingested orally (called systemic fluoride) during tooth development, helps to prevent tooth decay, strengthen tooth enamel, and reduce the harmful effects of plaque." 102

Royal Society of New Zealand

"Naturally occurring concentrations of fluoride in water in some parts of the world (e.g. parts of China, Africa, and India) are much higher than those found in fluoridated water, and in some of these regions high fluoride intakes are known to cause problems in teeth and bones (dental and skeletal fluorosis). It is important to distinguish between effects of apparent fluoride toxicity at very high intakes, and effects that may occur at the much lower intakes from CWF. Some studies have failed to do so, giving rise to potentially misleading statements and confusion." 104

Stand for Children

"Proven preventive measures, such as water fluoridation and dental sealants, can markedly reduce dental disease ... Although those people who oppose fluoridation often publicly cite health concerns as the reason for their opposition, a professional poll of anti-fluoridationists found that health concerns were actually

ROYAL SOCIETY of NEW ZEALAND

number 8 on the list of 10 concerns. The primary reason people are opposed to fluoridation is for philosophical reasons." 105

Tennessee Department of Health

"Fluoride is naturally occurring and present in all bodies of water (rivers, lakes, springs, and wells) to some degree. Water fluoridation is the adjustment of the natural level of fluoride to a level that is optimal for oral health.

"... More than 60 years of research supports the fact that community water fluoridation is both safe and effective." 106

Texas Department of State Health Services

"The wide implementation of community water fluoridation in Texas has resulted in substantial savings in publicly financed dental care under the Texas Healthy Steps (EPSDT-Medicaid) program. Further savings may be made by implementing community water fluoridation in areas where it is lacking and feasible." ¹⁰⁷

U.S. Task Force on Community Preventive Services

"The Task Force on Community Preventive Services recommends community water fluoridation based on strong evidence of effectiveness in reducing tooth decay." 109



Utah Health Department

"The nationwide goal to prevent cavities through community water fluoridation is similar to previous public health efforts to prevent other common health problems. These include adding iodide to salt to prevent thyroid problems, adding iron to infant formula to prevent anemia, adding Vitamin D to milk to prevent rickets, adding niacin to flour and other foods to prevent pellagra, and adding folic acid to cereal grains products to prevent birth defects.

"Each of these public health efforts represents situations where a nutritional additive is provided to everyone or to large target populations since it is impossible to individually identify and effectively treat the significant number of people who are at risk." 110

Vermont Medical Society

- "... frequent exposure to small amounts of fluoride enhances developing enamel and encourages remineralization, replacing minerals that bacteria dissolve from the enamel surface of teeth."
- "... the Vermont Medical Society endorses fluoridation as an important community commitment to the oral health of its children and adults and it affirms the value of continuing fluoridation in community water systems."¹¹¹

Washington State Public Health Association

- "... the benefits of fluoridation of water in the prevention of dental disease have been scientifically substantiated."
- "... the Washington State Public Health Association actively endorses and strongly supports fluoridation of the public water systems in the State of Washington."112

WebMD.com

"Fluoride helps prevent tooth decay by making the tooth more resistant to acid attacks from plaque bacteria and sugars in the mouth. It also reverses early decay. In children under six years of age, fluoride becomes incorporated into the development of permanent teeth, making it difficult for acids to demineralize the teeth. Fluoride also helps speed

remineralization as well as disrupts acid production in already erupted teeth of both children and adults."113

Wisconsin Oral Health Coalition

"... community water fluoridation is a significant cost containment measure available for dental caries prevention in communities throughout Wisconsin, costing an average of approximately 50 cents per person per year while reducing the need for expensive treatment ..."114

World Health Organization

"Fluoride is being widely used on a global scale, with much benefit.

Millions of people worldwide use fluoridated toothpaste. They benefit from fluoridated water, salt fluoridation or other forms of fluoride applications ..."¹¹⁵

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