

STATE OF HAWAII DEPARTMENT OF HEALTH

P. O. Box 3378 Honolulu, HI 96801-3378 doh.testimony@doh.hawaii.gov

Testimony in SUPPORT of H.B. 577 RELATING TO A NON-BINDING REFERENDUM ON STATEWIDE COMMUNITY WATER FLUORIDATION

REPRESENTATIVE JOHN MIZUNO, CHAIR HOUSE COMMITTEE ON HEALTH & HUMAN SERVICES

Hearing Date: February 7, 2018 Room Number: 329

- Fiscal Implications: None to the Department. The Department of Health defers to the water
- 2 departments of the City and County of Honolulu and Counties of Hawaii, Maui, and Kauai, and
- 3 other regulated Public Water Systems on the program and fiscal implications of H.B. 577.
- 4 **Department Testimony:** The Department of Health supports H.B. 577. We believe community
- 5 water fluoridation is a community-based decision. Community water fluoridation is an effective
- 6 public health strategy to improve oral health.
- 7 In 2004, the U.S. Surgeon General stated that community water fluoridation is the single
- 8 most effective measure a community can take to prevent tooth decay and specifically help with
- 9 cavity prevention. According to the American Dental Association, more than 70 years of
- scientific research has consistently shown that an optimal level of fluoride in community water is
- safe and effective in preventing tooth decay by at least 25% in both children and adults. Because
- of its contribution to the large decline in cavities in the United States since the 1960s, the Centers
- for Disease Control and Prevention (CDC) named community water fluoridation one of ten great
- public health achievements of the 20th century.
- The CDC reports that oral health in the United States is much better today than it was
- many years ago. But cavities are still one of the most common chronic diseases of childhood.
- 17 The Hawaii Smiles 2015 report found that Hawaii has the highest prevalence of tooth decay
- among third graders in the United States. More than 7 out of 10 third graders (71%) are affected

- by tooth decay; substantially higher than the national average of 52%. Community water
- 2 fluoridation is a cost-effective way to deliver fluoride to people of all ages, education levels, and
- 3 income levels who live in a community.
- 4 Most water has some fluoride, but usually not enough to prevent cavities. Community
- 5 water systems can add the optimal amount of fluoride to the local drinking water to prevent
- 6 cavities. Hawaii continues to have the lowest rate of community water fluoridation in the U.S. at
- 7 11% compared to 75% nationally. Community water fluoridation is recommended by nearly all
- 8 public health, medical, and dental organizations. It is recommended by the American Dental
- 9 Association, American Academy of Pediatrics, US Public Health Service, and World Health
- 10 Organization.
- Thank you for the opportunity to testify on this bill.

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HI 96843 www.boardofwatersupply.com



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ERNEST Y. W. LAU, P.E. Manager and Chief Engineer

ELLEN E. KITAMURA, P.E.
Deputy Manager and Chief Engineer

The Honorable John M. Mizuno and Members Committee on Health and Human Services House of Representatives Hawaii State Capitol, Room 329 Honolulu, Hawaii 96813

Dear Chair Mizuno and Members:

Subject: House Bill 577: Relating to a Non-Binding Referendum

on Statewide Community Water Fluoridation

The Honolulu Board of Water Supply (BWS) does not support House Bill 577.

The bill conflicts with Chapter 30, Article 5, Section 30-5.1 of the Revised Ordinance of Honolulu, which prohibits the adding of any chemical to the public water supply to treat or affect the physical or mental functions of the body of any person except for those chemicals used to make the water safe to drink, such as chlorine.

The BWS presently delivers on average 140 million gallons of water to our customers each day. From an operational perspective, substantial changes to more than 194 water facilities would be necessary to enable water fluoridation, and it would take several years to design, permit and install the implementing improvements. Fluoridating all of this water is estimated to cost \$15 million for design, construction and equipment, with an annual operating cost of \$2.7 million to maintain and operate the equipment. The BWS is concerned about the cost to daily fluoridate 100% of our water supply, particularly when less than 5% of that water is actually consumed. This cost will only increase over time and add to the challenges to keeping water rates affordable for our customers.

Finally, fluoridating the water supply could expose the state and its agencies to potential liability. Chapter 30, Article 5, Section 30-5.1 of the Revised Ordinance of Honolulu prohibits "add[ing] any product, substance, or chemical to the public water supply ... for the purpose of treating or affecting the physical or mental functions of the body of any person, rather than to make the water safe" The proposed community water fluoridation could run afoul of this prohibition. Moreover, responsibility for a fluoridation program would most likely fall upon state agencies, presumably county water departments, which would be responsible for ensuring that fluoride is added to the water

The Honorable John M. Mizuno and Members February 7, 2018 Page 2

supply at appropriate levels. Since fluoride exposure at inappropriate levels can result in adverse impacts, if community water fluoridation is to occur it is critical that water departments are provided with adequate funding, equipment and training to minimize these risks. It may be better for all concerned to manage dental issues at the individual level through targeted application under controlled conditions rather than through a "one size fits all" system-wide delivery system.

We understand the dental care intent of House Bill 577. However, that intent needs to seriously consider the economic, technical feasibility and cost to achieve it.

Thank you for the opportunity to testify.

Very truly yours,

ERNEST Y. W. LAU, P.E. Manager and Chief Engineer



DEPARTMENT OF WATER SUPPLY · COUNTY OF HAWAI'I

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February 5, 2018

Honorable Chair John Mizuno, Honorable Vice-Chair Bertrand Kobayashi, and Committee Members
Committee on Health and Human Services
State House of Representatives
Hawai'i State Capitol, Room 329
415 South Beretania Street
Honolulu, HI 96813

Dear Chair Mizuno:

Subject: House Bill 577 – Relating to a Non-Binding Referendum on Statewide

Community Water Fluoridation

Hearing: February 7, 2018, 10:30 a.m.

The Department of Water Supply, County of Hawai'i (HDWS), respectfully submits testimony in opposition of House Bill (HB) 577.

The HDWS is a municipal potable water purveyor providing potable drinking water to over 100,000 residents and customers on the Island of Hawai'i. HDWS is regulated by the Environmental Protection Agency's Safe Drinking Water Act (SDWA) which was signed into law by Congress in 1974. The SDWA established rules that require water purveyors such as the HDWS serve potable water, which meets minimum standards to its consumers. The HDWS continually monitors and maintains its 23 water systems to meet the standards set forth under the SDWA and by the State of Hawai'i, Department of Health (DOH). Providing safe and affordable drinking water to Hawai'i Island's residents and visitors is one of HDWS' core missions.

As HB 577 is written, its HDWS' understanding that the bill proposes to seek the electorate's desires for community water fluoridation. Although, the HDWS does not oppose involving the electorate in the process, the HDWS opposes community water fluoridation for the following reasons:

1. Fluoride supplements are already added to and available in children products such as multivitamins and toothpaste, which inherently are more appropriate, than in the public water system. These products provide parents the choice to administer fluoride products to their children. If fluoridation is required in community water systems, then all water customers Honorable Chair John Mizuno, Honorable Vice-Chair Bertrand Kobayashi, and Committee Members

Page 2

February 5, 2018

would receive the added fluoride. And there most likely will be customers or parents that oppose the addition of fluoride.

- 2. Per the Environmental Protection Agency, the typical charcoal-based water filtration systems do not remove fluoride from water. Boiling water does not remove fluoride. More costly distillation and reverse osmosis are treatment methods that have proven to be effective for removing fluoride. However, these treatments are not as readily available thus the up-front and maintenance costs are unknown.
- 3. HDWS has frequently received inquiries from customers questioning whether or not fluoride is currently being added to the public water system. To HDWS' knowledge, none of the inquirers have asked for fluoride to be added to the water, rather they are pleased to learn that fluoride is not added to the water.
- 4. Requiring fluoridation of community water systems would most likely affect the water rates of water purveyors. HDWS does not currently add fluoride to any of its water systems. Thus, if required, HDWS would have to plan, budget, design, and construct fluoride injection systems. In addition, additional operators would have to be hired to operate and maintain the fluoridation facilities. These increased capital, operating, and maintenance costs would eventually have to be passed on to the HDWS' customers and ratepayers.

To summarize, the HDWS respectfully submits this testimony in opposition of HB 577. Any such legislation that proposes to establish fluoridation requirements should seriously consider the technical capability and economic feasibility to achieve the proposed intentions.

Thank you for your time and consideration on HDWS' testimony for this proposed bill. Should you have additional questions, please do not hesitate to contact us at (808) 961-8050.

Sincerely yours,

Keith K. Okamoto, P.E.

Manager-Chief Engineer

KKU:dmj



February 4, 2018

House Committee on Health and Human Services **HB 577**Ellie Kelley-Miyashiro, RDH, BS

Hawaii Dental Hygienists' Association, Regulations and Practice Chairperson

Chairperson Chairperson Mizuno, Vice Chair Kobayashi and Committee Members:

The Hawaii Dental Hygienists' Association (HDHA) fully supports **HB 577.** We would like to congratulate you on your leadership in initiating this important discussion during this legislative session. Having one of the worst dental decay rates in the nation, Hawaii's people and children in particular can only benefit from legislation such as this.

As mentioned, Hawaii has consistently had one of the worst dental decay rates in the Nation. A different approach to reducing our decay rate needs to be addressed. Without community water fluoridation, the only line of defense for dental hygienists' to provide patients added protection is in office fluoride varnish application, and dentist administered prescription Fluoride drops/tablets for home use. These treatments are effective, but heavily reliant on patient acceptance, as well as, compliance. Water Fluoridation would be an added tool in our armamentarium as it has significantly proven to be safe and effective in reducing dental decay.

As the largest association representing Hawaii's licensed dental hygienists', HDHA strongly **supports HB577** to address the prevention of dental disease among Hawaii's people.

Thank you for your consideration.

Petition to Submit Testimony in Support of HB577

Petition summary and background:	As Registered Dental Hygienists in the state of Hawaii, we SUPPORT HB577. We have seen high rates of dental decay in both keiki and adults which could be a result from NO fluoride in our community water system. The Federal government mandates all military installments to provide fluoride in their water system. Statistics show how effective it has been to those living on base and have access to fluoridated water. Encouraging parents to give fluoride drops/chew tabs to their keiki from a young age helps to increase the chance of developing healthy teeth in the future. However, not everyone is compliant. Applying topical fluoride and dental sealants to keiki's teeth may help to prevent decay from occurring, but relies on access and acceptance of treatment. Community water fluoridation can help to improve the overall dental health of keiki and adults in HI.
Action petitioned for:	We, the undersigned, are concerned citizens who urge our leaders to act now to SUPPORT HB577 and help to improve the overall dental health of keiki and adults in Hawaii.

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Printed name	Email Address	Comment	Date

Printed name	Email Address	Comment	Date

<u>HB-577</u> Submitted on: 2/5/2018 1:31:32 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Katherine Dean		Support	Yes

Comments:



To: The House Committee on Health and Human Services

Time/Date: 10:30 a.m. February 7, 2018

Location: Capitol Conference Room 329

Re: HB 577, RELATING TO A NON-BINDING REFERENDUM ON STATEWIDE COMMUNITY

WATER FLUORIDATION.

Aloha Chair Mizuno, Vice Chair Kobayashi and members of the committee! My name is Dr. Robert Baysa and I serve as the president of the Hawaii Dental Association, a professional association comprised of approximately 950-member dentists. The Hawaii Dental Association (HDA) is a statewide professional membership organization representing dentists practicing in Hawaii and licensed by the State of Hawaii Board of Dental Examiners. HDA members are committed to protecting the oral health and well-being of all of the people of Hawaii, from keiki to kupuna and everyone in between.

HB 577 proposes a non-binding, statewide referendum on whether the State should pursue policies and programs for community water fluoridation in order to improve the overall dental health of Hawaii's children and adults. The Hawaii Dental Association is in strong support of this measure.

In 2015, the Hawaii State Department of Health reported Hawaii's children have the highest prevalence of tooth decay in the United States. Fluoride in water is the most efficient way to prevent one of the most common childhood diseases – tooth decay. An estimated 51 million school hours and 164 million work hours are lost each year due to dental-related illness. Community water fluoridation is so effective at preventing tooth decay that the Centers for Disease Control and Prevention named it one of 10 great public health achievements of the 20th century. Studies show that fluoride in community water systems prevents at least 25 percent of tooth decay in children and adults, even in an era with widespread availability of fluoride from other sources, such as fluoride toothpaste.

Providing our community with an opportunity to support fluoridation is an important step toward addressing our state's oral health needs. Please support this measure.



Date: February 6, 2018

To: The Honorable John Mizuno, Chair

The Honorable Bertrand Kobayashi, Vice Chair

Members of the House Committee on Health and Human Services

From: Jessica Yamauchi, Executive Director, Hawai'i Public Health Institute

Re: Support for HB 577

Hrg: February 7, 2018 at 10:30 am at Capitol Room 329

Thank you for the opportunity to offer testimony in support, offering comments to HB 577, to ask the electorate, through a non-binding, statewide referendum, whether Hawaii should pursue community water fluoridation.

The Hawai'i Public Health Institute (HIPHI) supports and promotes policy efforts to create a healthy Hawai'i. HIPHI weaves silos into working relationships as an effective network, ensuring that we come together across sectors to advance collaboration and innovation in public health and work towards making Hawai'i the healthiest place on earth.

Since 2010, Hawaii has received a failing grade of "F" in three oral health report cards published by The Pew Center on the States. Hawaii ranks last nationwide in community water fluoridation and Hawaii's children having the highest rate of tooth decay in the nation. In Hawaii, only military installments provide fluoridated drinking water (11.8%) which means there is no public access.

Community water fluoridation can have an especially significant impact on disadvantaged populations since it delivers fluoride with virtually no cost and no effort to children and adults who lack access to sufficient dental care due to cost, education, and time constraints. According to the Centers for Disease Control and Prevention, drinking fluoridated water keeps teeth strong and reduces cavities by about 25% in children and adults. By preventing cavities, community water fluoridation has been shown to save money for families and for the US health care system. Since all people drink water and consume foods prepared with water, every individual in a community with fluoridated water automatically benefits from it.

Thank you for the opportunity to provide testimony.

Vamauch

Jessica Yamauchi, MA

Executive Director

Submitted on: 2/6/2018 2:22:53 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Organization Testifier Position	
Robert Baysa	Dental Arts Hawaii	Support	No

Comments:

Support Testimony. Many of devices such Silver Diamine Fluoride helps to arrest caries when it is in the destructive phase, but needs multiple applications. Water fluoridation will improve outcome through evidence based applications.

Submitted on: 2/6/2018 7:46:01 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing	
Maile Walters		Support	No	

Comments:

I have a 2 year old daughter. We are fanatical about her teeth and offer supplemental fluoride as well as 2x/day brushing and flossing. So far, so good. But I've seen so many of her peers and older kids with silver teeth! It's time to protect the health of ALL the keiki in Hawaii and not let a fringe group of consipracy theorists keep us from this. Please pass the bill.

Submitted on: 2/6/2018 1:46:01 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
steven a kumasaka		Support	No

Comments:

water fluoridation is the most effective method of preventing decay in children and adults, it will save billions due to less time lost for dental visits and emergencies

fluoride is NOT an industrial chemical nor is it used in rat poison



February 7, 2018



Representative Bertrand Kobayashi, Vice Chair House Committee on Health & Human Services

From: Mandy Finlay, Director of Public Policy

Hawaii Children's Action Network

Re: HB 577 – Relating to a Non-Binding Referendum on Statewide Community Water Fluoridation

Hawaii State Capitol, Room 329, February 7, 2018, 10:30 AM

On behalf of Hawaii Children's Action Network (HCAN), we are writing to support HB 577, which proposes a non-binding, statewide referendum on whether the State should pursue policies and programs for community water fluoridation in order to improve the overall dental health of Hawaii's children and adults.

Hawaii's children have the highest rate of tooth decay in the nation. This is particularly true for children in low-income households who reside in rural areas. These figures underscore the need to expand access to comprehensive dental care services, especially for underserved and vulnerable communities. Hawaii has made efforts to address this problem through programs such as the virtual dental home, a community-based delivery of care system that uses telehealth-connected dental teams to provide dental services and dental education in underserved communities. However, Hawaii should explore all options to make our children's teeth healthier, including the possibility of fluoridated water, which can help prevent tooth decay.

For these reasons, HCAN respectfully requests the committee to support this measure.

HCAN is committed to building a unified voice advocating for Hawaii's children by improving their safety, health, and education.

Submitted on: 2/6/2018 10:53:22 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing	
Diane Brucato		Support	No	

Comments:

This testimony is in support of HB577. While water fluoridation coud greatly benefit our keiki, it may not be the best thing for elders at risk for hip fracture. Personally, I would like to see fluoridation targeted to school water systems, where the children who need it will get it, and adults could have a choice. Thank you for bringing this to public vote, because there are many differing opinions among families.

Respectfully,

Diane Brucato, RDH, EF, BS, FAADH

Submitted on: 2/4/2018 10:19:05 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By		Organization	Testifier Position	Present at Hearing	
Mits	uko Hayakawa		Oppose	No	

Comments:

Dear Chair Mizuno, Vice Chair Kobayashi and Members of the Health and Humand Services Committee,

I am strongly opposed to the fluoridation of water. The National Research Council acknowledges that young children may ingest more than 3-4 times the allowable amount from flurodated water, and the ADA does not recommend using fluoridated water in baby formula for risk of fluorosis.

All residents should have the right to choose to ingest fluoride or not. If fluoride is added to public drinking water, we lose that right and have no knowing of how much fluoride with which we come in contact. Everybody already has the ability to use fluoride through fluoridated toothpaste and mouthwashes. Please do not force everybody to ingest what is a known poison. Topical use should be sufficient.

Please do not support this measure. Thank you.

Respectfully,

Mitsuko Hayakawa

<u>HB-577</u> Submitted on: 2/5/2018 9:46:43 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Carmen Golay		Oppose	No

Comments:

Strongly oppose fluordination of water

Thank you.

Submitted on: 2/5/2018 9:49:50 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Lee Yen Anderson		Oppose	No

Comments:

I oppose HB577. Fluoride is known to impact the cardiovascular, central nervous, digestive, endocrine, immune, integumentary, renal, respiratory, and skeletal systems, and exposure to fluoride has been linked to Alzheimer's disease, cancer, diabetes, heart disease, infertility, and many other adverse health outcomes, including fluoride toxicity. Fluoridation is a violation of the individual's right to informed consent to **medication.** Within a community water supply, fluoride is being added to the water of everyone, even if some people do not want it and still others do not even know about the fluoride being added to the water or about its health risks. Informed consumer consent is needed for water fluoridation, especially because of the alarming lack of safety for this chemical and its health risks. The trend of decreased decayed, missing, and filled teeth over the past several decades has occurred both in countries with and without the systemic application of fluoridated water. This suggests that increased access to preventative hygiene services and more awareness of the detrimental effects of sugar are responsible for these improvements in dental health. Research has also documented decreases of tooth decay in communities that have discontinued water fluoridation. Even proponents of fluoride have suggested that fluoride primarily works to reduce tooth decay topically (i.e. scrubbing it directly onto to teeth with a toothbrush), as opposed to systemically (i.e. drinking or ingesting fluoride through water or other means).

Submitted on: 2/5/2018 9:53:41 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Merton Chang		Oppose	Yes

Comments:

To the HHS committee,

My name is Merton Chang and I am a retired chemist from Dearborne Chemical division of WR Grace. I worked for the company for 25 years.

I am in strong opposition to HB577 and would like to testify, in person, about the dangers and risks of using our drinking water for the purpose of flouridation. Besides my own knowledge of the risks I will be referring to the two following resources as support for my stance:

- 1) Dept of Health and Human Services, Review of Flouride Benefits and Risks, Febraury 1991.
- -To name a few negative issues: there is positive correlation between flouridation and osteosarcoma and there is evidence that flouride affects the renal system which is no good for those with renal disease and diabetes.
- 2) US Dept of Health and Human Services & CDC Water Flouridation, A manual for engineers and technicians, September 1986.
- -The cost of flouridation is incorrect as stated in the bill. There are multiple procedures that must be complete in order to insure the system is functioning at the state level that increase the cost. (I will explain these costs much more extensively at the hearing). In fact, it is cheaper to administer in other ways that do not require change to infrastructure. For example, childrens gummy vitamins as an administering system.

I look forward to addressing you in person in order to be more thorough about my evidence, my concerns, and be able to inform the public about the dangers of flouridating drinking water.

I thank you for your time,

Merton Chang

<u>HB-577</u> Submitted on: 2/5/2018 1:00:23 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Joy Marshall		Oppose	No

Comments:

Submitted on: 2/5/2018 1:57:31 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Kim Haine		Oppose	No

Comments:

Dear Honorable Representatives,

With all due respect I vehemently oppose this bill The Government should never be allowed to mass medicate the public without their informed consent

https://iaomt.org/top-ten-reasons-oppose-water-fluoridation/

Submitted on: 2/5/2018 2:24:00 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing	
Lori Auldridge		Oppose	No	

Comments:

Aloha,

I am a voter in Kula, Maui. I'm an educated mother of three (I hold two masters degrees) and am an active member of our community, supporting families and mothers all over the island of Maui.

I am writing to ask for your OPPOSITION to the following item:

HB577, which would add fluoride to Hawaii's drinking water.

Adding fluoride to our water supply is a horrible idea and a gross violation of our rights as individuals to informed consent. Fluoride is a known neurotoxin. It is not necessary for EVERYONE in Hawaii, which is who this effects. There is no medication that is 100% safe for everyone and by adding this to the water you are saying there is a "safe" one-size-fits-all dose of fluoride for everyone who consumes it, which there is not. It is unacceptable to add fluoride to our drinking water just because it may or may not affect the tooth health of a few. (There are many studies that show it is not as effective as it is advertised). There are plenty of every day ways Hawaii residents can get exposure to fluoride if they so desire. None of us should be required to set ourselves on fire to keep others warm.

I cannot emphasize this enough. Fluoride in the state's drinking water is NOT necessary to possibly "improve the dental health" of a few people. We do not have a "dental crisis" that warrants this addition. If fluoride is added to our drinking water, you'll be adding a huge expense to our family's monthly budget, as we will be forced to buy clean, safe drinking water with no fluoride because that is the best choice for our ohana.

On top of all of this, have you considered what the addition of fluoride would do to our wildlife? What studies have been done regarding fluoride and the ocean? Endangered birds and animals? What has been shown to the community at large that this is safe for Hawaii's habitats? Nothing. Please keep in mind the environmental impacts of this bill.

Thank you for listening and for your opposition.

Submitted on: 2/5/2018 2:43:33 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
susan higa		Oppose	No

Comments:

Dear Senators and Representatives,

I STRONGLY OPPOSE HB 577 proposal of statewide water fluoridation.

One of the reasons my family moved to Hawaii was the fact that the water here is NOT fluoridated.

Please do not pass this bill. It's true that fluoride topically applied may be of some benefit to preventing cavities. However when water is fluoridate, it is being consumed internally. That is the major difference. And because there is much encouragement to drink water, the dose becomes unlimited, which is especially damaging to infants and small children. Fluoride causes systemic brittleness, not just in bones but in the vascular system, lowering vascular wall integrity.

Fluoridating water will not resolve dental health problems because the core issues of high sugar consumption and proper dental hygiene are not addressed. Wouldn't it be more beneficial and far less detrimental to set up programs that encourage healthier eating and improved dental hygiene? Frequent eating of fermented foods such as sauerkraut is one way to drastically reduce cavities because the beneficial bacteria literally eat away the pathogenic bacteria that grow and thrive in the mouth.

Food conglomerates have hijacked the eating habits of children and adults alike with the bombardment of their strategic advertising. These companies with their deep pockets spend millions marketing directly to children who have little understanding or ability to counter these slick strategies. In fact they are incorporated into the very layout of most

grocery stores to entice consumers to shop in a particular manner. One example would be the deliberate placement of sweets and such at the check out aisles where shoppers stand and wait their turn.

The two most common types of fluoride added to the water are sodium silicofluoride and hydroflurosolicic acid. These are waste products from the wet scrubbing systems of the fertilizer industry. They are classified as hazardous wastes. Please reconsider putting such substances to be consumed in the name of reducing cavities. Only the most expensive of water filters, reverse osmosis and de-ionizers are able to filter out fluoride. Most water filters are carbon based and unable to filter out fluoride.

I have attached a link to a simple info graphic that gives a quick overview of the effects of fluoride. Pls look and reconsider. Please DO NOT fluoridate the water. As it is, we are already having to deal with countless unregulated toxins in our modern environment. For example, glyphosate the pernicious ingredient in Roundup, is already being run off into the oceans with every rainfall. It has been classified as a cancer causing agent by the World Health Organization, yet little attention is brought to this matter. Please don't add more to harm the water.

strongly oppose HB577. Thank you for your attention.
usan Higa
apolei
ttp://media.mercola.com/assets/images/infographic/water-fluoridation-infographic.png

Sent from my iPhone

Submitted on: 2/5/2018 2:54:13 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
martina dodson		Oppose	No

Comments:

Flouridation of water is a crime against human rights. It is a crime to make anyone consume a classified poison without their consent. Yes fluoride is poison. That is why on toothpaste packages it states call poison control if swallowed. Any amount is poison.

Reason #1 to Oppose Water Fluoridation: Fluoridation is a violation of the individual's right to informed consent to medication. Within a community water supply, fluoride is being added to the water of *everyone*, even if some people do not want it and still others do not even know about the fluoride being added to the water or about its health risks. Informed consumer consent is needed for water fluoridation, especially because of the alarming <u>lack of safety for this chemical</u>and its <u>health risks</u>.

Reason #2 to Oppose Water Fluoridation: Fluoride is not an essential nutrient. Fluoride is not a required component for human growth and development. In fact, fluoride has been recognized as one of 12 industrial chemicals known to cause developmental neurotoxicity in human beings. Researchers have repeatedlychallenged the alleged safety and effectiveness of fluoride.

Reason #3 to Oppose Water Fluoridation: Hundreds of research articles published over the past several decades have demonstrated potential harm to humans from fluoride at various levels of exposure, including levels currently deemed as safe. Fluoride is known to impact the cardiovascular, central nervous, digestive, endocrine, immune, integumentary, renal, respiratory, and skeletal systems, and exposure to fluoride has been linked to Alzheimer's disease, cancer, diabetes, heart disease, infertility, and many other adverse health outcomes, including fluoride toxicity.

Reason #4 to Oppose Water Fluoridation: People are now exposed to fluoride from an array of sources. Since water fluoridation began in 1940s, an array of products containing fluoride have been introduced to the average consumer including water, <u>dental products, pesticides</u>, <u>fluoride supplements</u>, <u>other prescription drugs</u>, <u>and many other sources</u>. There is no current accurate estimate of just how much fluoride people are taking in from all of these sources. However, dental fluorosis is recognized as the first visible sign of fluoride toxicity. It is likewise a warning signal of the human health risks associated with fluoride exposure. According to 2010 data from

the Centers for Disease Control and Prevention (CDC), 23% of Americans aged 6-49 and 41% of children aged 12-15 exhibit fluorosis to some degree

Reason #5 to Oppose Water Fluoridation: A "one dose fits all" level is unacceptable. Susceptible populations with low body weights, such as infants and children, and individuals who consume increased amounts of water, such as athletes, military personnel, outdoor laborers, and those with diabetes or kidney dysfunction, can be more intensely effected by fluoride. Additionally, fluoride is also known to impact each individual differently based on allergies, nutrient deficiencies, genetic factors, and other variables. Notably, a bottle-fed baby in a fluoridated area gets up to 200 times more fluoride than a breast-fed baby, resulting in an increased risk of dental fluorosis and other adverse effects.

Reason #6 to Oppose Water Fluoridation: There is not a wide-spread understanding about how fluoride interacts with other chemicals. This issue is crucial to understanding risks of artificial water fluoridation, as the multiple chemicals to which we are exposed to can produce distinct reactions and interactions. For example, the fluoride added to many water supplies attracts lead, which can be found in certain plumbing pipes. Likely because of this affinity for lead, <u>fluoride has been linked to higher blood lead levels in children</u>.

Reason #7 to Oppose Water Fluoridation: Does it even work to prevent tooth decay? The trend of decreased decayed, missing, and filled teeth over the past several decades has occurred both in countries with and without the systemic application of fluoridated water. This suggests that increased access to preventative hygiene services and more awareness of the detrimental effects of sugar are responsible for these improvements in dental health. Research has also documented decreases of tooth decay in communities that have discontinued water fluoridation. Even proponents of fluoride have suggested that fluoride primarily works to reduce tooth decay topically (i.e. scrubbing it directly onto to teeth with a toothbrush), as opposed to systemically (i.e. drinking or ingesting fluoride through water or other means).

Reason #8 to Oppose Water Fluoridation: Ethical questions have been raised in regard to the use of fluoride, especially because of fluoride's ties to the phosphate fertilizer and dental industries. Furthermore, researchers have reported difficulties with getting articles published that are critical of fluoride, and an urgent need for an appropriate application of the precautionary principle (i.e. first, do no harm) related to fluoride usage has emerged.

Reason #9 to Oppose Water Fluoridation: Fluoridation discriminates against those with low incomes. Research has indicated that fluoride does not aid in preventing pit and fissure decay (which is the most prevalent form of tooth decay in the U.S.) or in preventing baby bottle tooth decay (which is prevalent in poor communities). Also, research has suggested that in malnourished children and individuals of lower socioeconomic status, fluoride can actually increase the risk of dental caries due to calcium depletion and other circumstances. Moreover, people on low incomes are least able to

afford avoidance measures (reverse osmosis or bottled water) or medical and dental treatment for dental fluorosis and other fluoride-related ailments.

Reason #10 to Oppose Water Fluoridation: It also poses threats to animals (pets and wildlife), as well as the environment at large. Animals are exposed to <u>fluoride in the environment through pollution</u> of air, water, soil, and food. It is important to consider their overall fluoride exposure as a result of each of these sources. Harmful effects of fluoride, including species vulnerability, have been reported in an array of wild animals. Even domestic pets have been subjects of reports raising concerns about fluoride exposure, especially through their water and food.

exposure, especially through their water and food.
Mahalo for opposing this illegal bill.
Sincerely,
Martina D.
Maui

<u>HB-577</u> Submitted on: 2/5/2018 3:51:23 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
tara mattes		Oppose	No

Comments:

Floride is a toxin. Do not poison our water. Thank you

Submitted on: 2/5/2018 4:23:05 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Stephanie Whaley		Oppose	No

Comments:

This is truely surprising that this bill is being proposed. John Hopkins found in 1930's that fluoride CAUSES teeth to molt. There is so much science out there showing how harmful fluoride is to our health. It's contributing to the nationwide thyroid epidemic because the fluoride molecule kicks iodine out of the thyroid thus you can't make thyroid hormones. I absolutely positively DO NOT CONSENT to the fluoridation (ie poisoning) of our water supply. To whom ever proposed this bill, please read The Fluoride Deception by investigative author Christopher Bryson.

Submitted on: 2/5/2018 4:34:42 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Peggy Arraou		Oppose	No

Comments:

We come from abroad and in our country fluoride is considered highly risky and toxic.

Why exactly would we put it in our everyday water? Our health has to come first, not some business agreements based on intoxicating the local population and natural environment.

<u>HB-577</u> Submitted on: 2/5/2018 8:55:29 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Tamara Paltin		Oppose	No

Submitted on: 2/5/2018 9:41:52 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
natasha sky		Oppose	No

Comments:

Instead of a bill pushing toxic fluoride, let's get a bill passed that funds a public dental health education program, teaching the people of Hawaii how to not only take care of their teeth but to also learn about dietary aspects of dental health. Hawaii is well known For its unhealthy population from unhealthy diets. Too much soda. Not enough healthy fats and fruits and veggies. There are also safer effective fluoride alternatives. For instance, xylitol- "Xylitol is a natural sweetener derived from the fibrous parts of plants. It does not break down like sugar and can help keep a neutral pH level in the mouth. Xylitol also prevents bacteria from sticking to the teeth." There is also Theobromine. Which is a safe and effective alternative to fluoride. Thankyou for your time. Please oppose this bill.

Theobromine: A Safe and Effective Alternative for Fluoride in Dentifrices

Tetsuo Nakamoto

Alexander U. Falster

William B. Simmons

Address correspondence to:

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Journal of Caffeine Research

Vol. 6: , <u>Issue. 1</u>, : Pages. 1-9 (Issue publication date: March 2016)

https://doi.org/10.1089/jcr.2015.0023

During the process of studying caffeine's effects on developing teeth, a serendipitous discovery was made. Teeth comprise hydroxylapatite (HAP). Ingestion of caffeine (1,3,7-trimethylxanthine) caused the formation of smaller crystallites of HAP in the developing teeth. This resulted in the increased release of calcium and phosphorus ions from the enamel surface when exposed to acidic solutions *in vitro*. Furthermore, animal study confirmed the hypothesis that smaller HAP crystallites caused the increased incidence of dental caries. In contrast, theobromine (3,7-dimethylxanthine), which is similar to caffeine, caused formation of larger HAP crystallites *in vitro*. The ingestion of theobromine by lactating dams showed a decreased release of calcium and phosphorus ions from the enamel surface in the developing teeth of neonates *in vivo*. The use of fluoride dentifrices is controversial. It is also well documented that young children who brush their teeth often ingest fluoride-containing dentifrices. Based upon our comparative study between fluoride and theobromine, theobromine is a better alternative than fluoride. We believe that theobromine can be used as an ingredient of dentifrices and even if swallowed accidentally, there are no adverse effects.

http://online.liebertpub.com/doi/abs/10.1089/jcr.2015.0023?journalCode=jcr

<u>HB-577</u> Submitted on: 2/5/2018 10:10:56 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Lauren Ampolos		Oppose	No

<u>HB-577</u> Submitted on: 2/5/2018 11:20:15 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Joseph Kohn MD	We Are One, Inc www.WeAreOne.cc - WAO	Oppose	No

<u>HB-577</u> Submitted on: 2/5/2018 11:48:37 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Pamela Boyar	Farm Lovers Farmers Markets	Oppose	No

Submitted on: 2/6/2018 12:02:01 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing	
Deborah Mader	Hawai'i resident	Oppose	No	

Comments:

Aloha,

Don't put fluoride in our water. If someone wants fluoride they can opt to buy floride toothpaste. Many scientific studies show harmful effects of fluoride. http://fluoridealert.org/studies/acute03/https://www.chrisbeatcancer.com/fluoride-is-poison/

Mahalo. Deborah Mader

Maui

Submitted on: 2/6/2018 4:48:56 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Maly Nakoa		Oppose	No

Comments:

I strongly oppose the fluoridation of our water supply. There are countless studies showing the negative effects of this. Indiscriminately ingesting fluoride does not improve dental outcomes and in fact can have the opposite effect. Fluoride can and is obtained through dentist and pediatricians and should remain this way. Please oppose this very dangerous bill!

Submitted on: 2/6/2018 5:13:45 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Barbara Barry		Oppose	No

Comments:

Aloha,

Floride is a serious toxin and does not belong in our drinking water.

It's not effective for fighting cavities but brushing teeth and flossing is.

Mahalo,

Ms. Barbara Barry

Ha'iku

<u>HB-577</u> Submitted on: 2/6/2018 5:44:07 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Kat Culina		Oppose	No

Comments:

Fluoride is a toxin. Please don't put it in our drinking water.

Submitted on: 2/6/2018 5:56:30 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Felicia Cowden		Oppose	No

Comments:

Flouride should not be forced on the public at large. Hawaii is lucky to not have had forced ingestion of a chemical known to cause adverse health issues.

Far from giving fluoride a clean bill of health, the NAS called upon scientists to <u>investigate</u> if current fluoride exposures in the United States are contributing to chronic health problems, like bone disorders, thyroid disease, low intelligence, dementia, and diabetes, particularly in people who are most vulnerable to fluoride's effects

It is a violation of trust to have this controversial chemical added to our water supply.

Felicia Cowden

Kilauea, Kauai

<u>HB-577</u> Submitted on: 2/6/2018 6:05:20 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Shannon Rudolph		Oppose	No

Comments:

Strongly Oppose

Submitted on: 2/6/2018 7:03:24 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Julia Paul		Oppose	No

Comments:

Do not put flouride in our water. Do research... everyone but you knows it is bad. Children can get sealant on their teeth which is what my daughter did and she has no cavities at the age of 30.

Submitted on: 2/6/2018 9:19:22 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Melissa Walsh-Chong	Zen Den Midwifery	Oppose	No

Comments:

I do not want fluoridation of the water in Hawaii. I do not believe the water should contain fluoride a component which RDI is zero. It is not a good idea for the overall health or well being of your constituents to consider this bill.

I strongly urge you to oppose this bill HB577.

Submitted on: 2/6/2018 9:56:08 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
lori stitt		Oppose	No

Comments:

I strongly oppose HB577 fluoridation of water supply. It is widely known in the scientific hand health communities that fluoride is a poison. Water belongs to the people not the politicians.

What would native Hawaiians think of this? Shame!

Submitted on: 2/6/2018 10:07:12 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Jade Moss		Oppose	No

Comments:

Aloha,

I strongly oppose the addition of flouride to our tap water. It's been documented and proven by dentists and health professionals that the adverse effects far outweigh the good. Furthermore recent studies show and our pediatric dentist Dr. Sumikawa told me that they find fluoride is only effective when applied DIRECTLY to the teeth, ingesting it doesn't have significant impact on teeth heath. Here's a book excerpt about the history and studies of fluoride in defining water.

https://books.google.com/books?id=fqi2tIA88PQC&pg=PA132&lpg=PA132&dq=fluoride +only+works+directly+on+teeth&source=bl&ots=oXWxukvGKh&sig=oNj5PdJbvfZHW42 EjOn4oF5roOs&hl=en&sa=X&ved=2ahUKEwiOjJ_thZLZAhVJxGMKHY5xB3YQ6AEwB noECAkQAQ#v=onepage&q=fluoride%20only%20works%20directly%20on%20teeth&f=false

Also, please consider how much money it would cost the state.

Mahalo,

Jade Moss

Kalaheo

Submitted on: 2/6/2018 10:27:16 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing	
Wil McClaren	BTS	Oppose	No	

Comments:

It's shocking Hawaii is still looking at drugging the populace through the water supply. A few points:

- It's immoral to mass medicate a population [particularly with something that is considered a toxin]
- It's bad medicine to force medicate a population without any regards to age, weight, health issues, etc. No doctor would prescribe the same medicine in the same dose for 100% of the population.
- Since you can not control the dose each person would get, you would have no control over the results. "Think about it: If a 230-pound man and a 15-pound baby each drink ONE GLASS OF WATER, they each receive the same dose of fluoride," he said. "Does it make any sense at all to give both of them the same amount, regardless of body size or health history, and to not know or monitor how much fluoride they're drinking or ingesting from other sources?" Daniel Stockin of the Lillie Center Inc
- Will you be using pharmaceutical grade Fluoride? Or will this be an industrial
 waste product? If it's a bi-product from fertilizers or industrial waste, will you be
 testing each batch for heavy metal contaminants, since it is a common
 occurrence to find it contaminated with heavy metals such as lead?
- Will the state be testing all pipes due to leaching, since it has been found it actually pulls things like lead from the pipes?
- Will the state have a fund set aside in case residents sue the state for health risks due to drinking (and now eating food, drinks, prepared with) fluoridated water?
- Will the state offer those with health issue, such as thyroid issues, that will be very negatively impact by drinking fluoridated water, free home water filtration? Note: Fluoride often needs special filtration. Brita for example will not remove fluoride. It would need to be entire house – or apartment complex – system, as fluoride is inhaled into the lungs and absorbed into the skin when showering, bathing, even doing the dishes.
- If people start getting fluorosis, will the state pay for their health care? Fluorosis is skyrocketing in fluoridated areas from too much fluoride. It destroys teeth, bones, causes arthritis...

- Also, since fluorosis permanently stains the teeth in children receiving too much fluoride, will the state provide dental work to hide the damage for any child in Hawaii who suffers from affliction?
- Will the state also be looking at ALL the studies (over 50) showing how excess fluoride can decrease IQ? http://fluoridealert.org/studies/brain01/ Since many children swallow 50% of the paste on their toothbrush brush, how do we get them the right dose without overdosing them? "Children could ingest more fluoride from [toothpaste] alone than is recommended as a total daily fluoride ingestion." (Levy 1999; Journal of Public Health Dentistry).
- The Lancet published a report in 2014 that made clear fluoride is a neurotoxin in the same category as mercury, lead, and arsenic – the effects include disabilities such as autism, attention, deficit hyperactivity disorder, dyslexia, and other cognitive impairments. http://www.thelancet.com/journals/laneur/article/PIIS1474-4422(13)70278-3/abstract

If you truly care about this issue, please research before voting. To start please watch:

https://www.youtube.com/watch?v=sh-oeu2L8yM

https://www.youtube.com/watch?v=o42u0zC1H7g&feature=youtu.be

https://www.youtube.com/watch?v=pkuHo2xFJr0

https://www.youtube.com/watch?v=GqstwfKGzPI

Thanks so much for considering all the factors of this unnecessary, dangerous, archaic practice.

Wil McClaren

<u>HB-577</u> Submitted on: 2/6/2018 10:49:48 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Sı	ıbmitted By	Organization	Testifier Position	Present at Hearing	
Tu	Isi Greenlee		Oppose	No	l

Comments:

Please oppose this bill. Flouride is poison â~ ︕

thank you Tulsi

<u>HB-577</u> Submitted on: 2/6/2018 10:54:57 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
sharon		Oppose	No

Comments:

POISON !!! Proven toxic!!!!

youd have to be insane to pass this!!! REALLY

Submitted on: 2/6/2018 11:59:30 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
melissa snyder		Oppose	No

Comments:

I oppose the poisoning of our water supply by adding Fluoride. This is not safe for ingestion and water should not be contaminated in this way. The use fluoride for dental health needs to be a choice. Say no to fluoride in our water.

Submitted on: 2/6/2018 2:19:35 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Mary Whispering Wind	Patients Without Time	Oppose	No

Comments:

I OPPOSE HB577.

Fluoridation is a bad medical practice. 1) Fluoride is the only chemical added to water for the purpose of medical treatment. ... As a matter of basic logic, adding fluoride to water for the sole purpose of preventing tooth decay (a non-waterborne disease) is a form of medical treatment, that seems overtly invasive, and may have adverse toxic or poisonous properties.

<u>HB-577</u> Submitted on: 2/6/2018 3:36:06 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Theodora Akau Gaspar		Oppose	No

Submitted on: 2/6/2018 4:46:14 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Robin Kutkowski		Oppose	No

Comments:

I strongly oppose this potential bill. We DO NOT need fluoride in our water. When this state needs is more information our schools about nutrition and health. This is not the correct answer. I strongly oppose.

Submitted on: 2/6/2018 4:59:03 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Nancy Redfeather	Ka Ohana O Na Pua	Oppose	No

Comments:

Flouride is a poison and should not be introduced into Hawaii's water supply. There are plenty of other ways to take it if you feel it is important for your health. Forcing it on the general public and communities is the wrong thing to do.

Submitted on: 2/6/2018 6:33:58 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
TO		Oppose	No

Comments:

I strongly oppose this bill. According to its Material Safety Data Sheet, some of the Chronic Health Effects of Fluoride are ---

"Developmental Toxicity: Not Available. The substance may be toxic to kidneys, lungs the nervous system, heart, gastrointestinal tract, cardivascular system, bones, TEETH. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material my produce general deterioration of health by an accumulation in one or many human organs."

I do not understand why this legislature is intent on slowly poisoning the keiki to death. Soda, high fructose corn syrup, and other generic sources of sugar are the major sources of tooth decay including poor dental habits. Fluoride is a toxin and containers of fluoride are identified with a "skull and crossbones" which means it is a poison. If the Board of Water Supply accidentally overdoses the water, the public can suffer dire health consequences including death. As the water is toxic to children, it will also be toxic to yourselves as adults and the elderly. Fluoride is not effective against dental decay and will only increase the incidence of chronic disease in your elderly population. As for the children, there will be increased cognitive delays and chronic disease AND the incidence of dental decay will not decrease.

Perhaps you should consider a pilot study between kids who receive fluridated water and those who do not to see whether there is an actual difference in the incidence of tooth decay.

I strongly oppose this bill and I hope you will be prudent in you decisions. Thank you.

Submitted on: 2/6/2018 7:00:48 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Dawn Poiani		Oppose	Yes

Comments:

Most developed countries, including Japan and 97% of the western European population, do not consume fluoridated water.

Fluoridation is a bad medical practice

The U.S. Food and Drug Administration (FDA) classifies fluoride as a <u>drug</u>when used to prevent or mitigate disease (FDA 2000). As a matter of basic logic, adding fluoride to water for the sole purpose of preventing tooth decay (a non-waterborne disease) is a form of medical treatment. All other water treatment chemicals are added to improve the water's quality or safety, which fluoride does not do.

Fluoridation is unethical. <u>Informed consent</u> is standard practice for all medication, and one of the key reasons why most of Western Europe has ruled against fluoridation. With water fluoridation we are allowing governments to do to whole communities (forcing people to take a medicine irrespective of their consent) what individual doctors cannot do to individual patients.

Put another way: Does a voter have the right to require that their neighbor ingest a certain medication (even if it is against that neighbor's will)?

The fluoride goes to everyone regardless of age, health or vulnerability.

People now receive fluoride from many other sources besides water. Fluoridated water is not the only way people are exposed to fluoride. Other sources of fluoride include food and beverages processed with fluoridated water (Kiritsy 1996; Heilman 1999), fluoridated dental products (Bentley 1999; Levy 1999), mechanically deboned meat (Fein 2001), tea (Levy 1999), and pesticide residues (e.g., from cryolite) on food (Stannard 1991; Burgstahler 1997). It is now widely acknowledged that exposure to non-water sources of fluoride has significantly increased since the water fluoridation program first began (NRC 2006).

Fluoride is not an essential nutrient. No disease, not even tooth decay, is caused by a "<u>fluoride deficiency</u>." (NRC 1993; Institute of Medicine 1997, NRC 2006). Not a single biological process has been shown to require fluoride. On the contrary there is extensive evidence that fluoride can interfere with many important biological processes.

Fluoride interferes with numerous enzymes (Waldbott 1978). In combination with aluminum, fluoride interferes with G-proteins (Bigay 1985, 1987). Such interactions give aluminum-fluoride complexes the potential to interfere with signals from growth factors, hormones and neurotransmitters (Strunecka & Patocka 1999; Li 2003). More and more studies indicate that fluoride can interfere with biochemistry in fundamental ways (Barbier 2010).

Fluoride accumulates in the body. Healthy adult kidneys excrete 50 to 60% of the fluoride ingested each day (Marier & Rose 1971). The remainder accumulates in the body, largely in calcifying tissues such as the bones and <u>pineal gland</u> (Luke 1997, 2001). Infants and children <u>excrete less</u> fluoride from their kidneys and take up to 80% of ingested fluoride into their bones (Ekstrand 1994). The fluoride concentration in bone steadily increases over a lifetime (NRC 2006).

No health agency in fluoridated countries is monitoring fluoride exposure or side effects. No regular measurements are being made of the levels of fluoride in urine, blood, bones, hair, or nails of either the general population or sensitive subparts of the population (e.g., individuals with <u>kidney disease</u>).

There has never been a single randomized controlled trial to demonstrate fluoridation's effectiveness or safety. Despite the fact that fluoride has been added to community water supplies for over 60 years, "there have been no randomized trials of water fluoridation" (Cheng 2007). Randomized trials are the standard method for determining the safety and effectiveness of any purportedly beneficial medical treatment. In 2000, the British Government's "York Review" could not give a single fluoridation trial a Grade A classification – despite 50 years of research (McDonagh 2000). The U.S. Food and Drug Administration (FDA) continues to classify fluoride as an "unapproved new drug."

Swallowing fluoride provides no (or very little) benefit

Benefit is topical not systemic. The Centers for Disease Control and Prevention (CDC, 1999, 2001) has now acknowledged that the mechanism of fluoride's benefits are mainly topical, not systemic. There is no need whatsoever, therefore, to swallow fluoride to protect teeth. Since the purported benefit of fluoride is topical, and the risks are systemic, it makes more sense to deliver the fluoride directly to the tooth in the form of toothpaste. Since swallowing fluoride is unnecessary, and potentially dangerous, there is no justification for forcing people (against their will) to ingest fluoride through their water supply.

NIH-funded study on individual fluoride ingestion and tooth decay found no significant correlation. A multi-million dollar, U.S. National Institutes of Health (NIH)-funded study found no significant relationship between tooth decay and fluoride intakeamong children. (Warren 2009) This is the first time tooth decay has been investigated as a function of individual exposure (as opposed to mere residence in a fluoridated community).

Tooth decay is high in low-income communities that have been fluoridated for years. Despite some claims to the contrary, water fluoridation cannot prevent the oral health crises that result from rampant poverty, inadequate nutrition, and lack of access to dental care. There have been numerous reports of severe dental crises in low-income neighborhoods of US cities that have been fluoridated for over 20 years (e.g., Boston, Cincinnati, New York City, and Pittsburgh). In addition, research has repeatedly found fluoridation to be ineffective at preventing the most serious oral health problem facing poor children, namely "baby bottle tooth decay," otherwise known as early childhood caries (Barnes 1992; Shiboski 2003).

Tooth decay does not go up when fluoridation is stopped. Where fluoridation has been <u>discontinued</u> in communities from Canada, the former East Germany, Cuba and Finland, dental decay has not increased but has generally continued to decrease (Maupomé 2001; Kunzel & Fischer, 1997, 2000; Kunzel 2000; Seppa 2000).

Children are being over-exposed to fluoride

Children are being over-exposed to fluoride. The fluoridation program has massively failed to achieve one of its key objectives, i.e., to lower dental decay rates while limiting the occurrence of dental fluorosis (a discoloring of tooth enamel caused by too much fluoride. The goal of the early promoters of fluoridation was to limit dental fluorosis (in its very mild form) to 10% of children (NRC 1993, pp. 6-7). In 2010, however, the Centers for Disease Control and Prevention (CDC) reported that 41% of American adolescents had dental fluorosis, with 8.6% having mild fluorosis and 3.6% having either moderate or severe dental fluorosis (Beltran-Aguilar 2010). As the 41% prevalence figure is a national average and includes children living in fluoridated and unfluoridated areas, the fluorosis rate in fluoridated communities will obviously be higher. The British Government's York Review estimated that up to 48% of children in fluoridated areas worldwide have dental fluorosis in all forms, with 12.5% having fluorosis of aesthetic concern (McDonagh, 2000).

The highest doses of fluoride are going to bottle-fed babies. Because of their sole reliance on liquids for their food intake, infants consuming formula made with fluoridated water have the highest exposure to fluoride, by bodyweight, in the population. Because infant exposure to fluoridated water has been repeatedly found to be a major risk factor for developing dental fluorosis later in life (Marshall 2004; Hong 2006; Levy 2010), a number of dental researchers have recommended that parents of newborns not use fluoridated water when reconstituting formula (Ekstrand 1996; Pendrys 1998; Fomon 2000; Brothwell 2003; Marshall 2004). Even the American Dental Association (ADA), the most ardent institutional proponent of fluoridation, distributed a November 6, 2006 email alert to its members recommending that parents be advised that formula should be made with "low or no-fluoride water." Unfortunately, the ADA has done little to get this information into the hands of parents. As a result, many parents remain unaware of the fluorosis risk from infant exposure to fluoridated water.

Evidence of harm to other tissues

Dental fluorosis may be an indicator of wider systemic damage. There have been many suggestions as to the possible biochemical mechanisms underlying the development of dental fluorosis (Matsuo 1998; Den Besten 1999; Sharma 2008; Duan 2011; Tye 2011) and they are complicated for a lay reader. While promoters of fluoridation are content to dismiss dental fluorosis (in its milder forms) as merely a cosmetic effect, it is rash to assume that fluoride is not impacting other developing tissues when it is visibly damaging the teeth by some biochemical mechanism (Groth 1973; Colquhoun 1997). Moreover, ingested fluoride can only cause dental fluorosis during the period before the permanent teeth have erupted (6-8 years), other tissues are potentially susceptible to damage throughout life. For example, in areas of naturally high levels of fluoride the first indicator of harm is dental fluorosis in children. In the same communities many older people develop skeletal fluorosis.

Fluoride may damage the brain. According to the National Research Council (2006), "it is apparent that fluorides have the ability to interfere with the functions of the brain." In a review of the literature commissioned by the US Environmental Protection Agency (EPA), fluoride has been listed among about 100 chemicals for which there is "substantial evidence of developmental neurotoxicity." Animal experiments show that fluoride accumulates in the brain and alters mental behavior in a manner consistent with a neurotoxic agent (Mullenix 1995). In total, there have now been over 100 animal experiments showing that fluoride can damage the brain and impact learning and behavior. According to fluoridation proponents, these animal studies can be ignored because high doses were used. However, it is important to note that rats generally require five times more fluoride to reach the same plasma levels in humans (Sawan 2010). Further, one animal experiment found effects at remarkably low doses (Varner 1998). In this study, rats fed for one year with 1 ppm fluoride in their water (the same level used in fluoridation programs), using either sodium fluoride or aluminum fluoride, had morphological changes to their kidneys and brains, an increased uptake of aluminum in the brain, and the formation of beta-amyloid deposits which are associated with Alzheimer's disease. Other animal studies have found effects on the brain at water fluoride levels as low as 5 ppm (Liu 2010).

Fluoride may lower IQ. There have now been 33 studies from China, Iran, India and Mexico that have reported an association between fluoride exposure and reduced IQ. One of these studies (Lin 1991) indicates that even just moderate levels of fluoride exposure (e.g., 0.9 ppm in the water) can exacerbate the neurological defects of iodine deficiency. Other studies have found IQ reductions at 1.9 ppm (Xiang 2003a,b); 0.3-3.0 ppm (Ding 2011); 1.8-3.9 ppm (Xu 1994); 2.0 ppm (Yao 1996, 1997); 2.1-3.2 ppm (An 1992); 2.38 ppm (Poureslami 2011); 2.45 ppm (Eswar 2011); 2.5 ppm (Seraj 2006); 2.85 ppm (Hong 2001); 2.97 ppm (Wang 2001, Yang 1994); 3.15 ppm (Lu 2000); 4.12 ppm (Zhao 1996). In the Ding study, each 1 ppm increase of fluoride in urine was associated with a loss of 0.59 IQ points. None of these studies indicate an adequate margin of safety to protect all children drinking artificially fluoridated water from this affect. According to the National Research Council (2006), "the consistency of the

results [in fluoride/IQ studies] appears significant enough to warrant additional research on the effects of fluoride on intelligence." The NRC's conclusion has recently been amplified by a team of Harvard scientists whose fluoride/IQ meta-review concludes that fluoride's impact on the developing brain should be a "high research priority." (Choi et al., 2012). Except for one small IQ study from New Zealand (Spittle 1998) no fluoridating country has yet investigated the matter.

Fluoride may cause non-IQ neurotoxic effects. Reduced IQ is not the only neurotoxic effect that may result from fluoride exposure. At least three human studies have reported an association between fluoride exposure and impaired visual-spatial organization (Calderon 2000; Li 2004; Rocha-Amador 2009); while four other studies have found an association between prenatal fluoride exposure and fetal brain damage (Han 1989; Du 1992; Dong 1993; Yu 1996).

Fluoride affects the pineal gland. Studies by Jennifer Luke (2001) show that fluoride accumulates in the human pineal gland to very high levels. In her Ph.D. thesis, Luke has also shown in animal studies that fluoride reduces melatonin production and leads to an earlier onset of puberty (Luke 1997). Consistent with Luke's findings, one of the earliest fluoridation trials in the U.S. (Schlesinger 1956) reported that on average young girls in the fluoridated community reached menstruation 5 months earlier than girls in the non-fluoridated community. Inexplicably, no fluoridating country has attempted to reproduce either Luke's or Schlesinger's findings or examine the issue any further.

Fluoride affects thyroid function. According to the U.S. National Research Council (2006), "several lines of information indicate an effect of fluoride exposure on thyroid function." In the Ukraine, Bachinskii (1985) found a lowering of thyroid function, among otherwise healthy people, at 2.3 ppm fluoride in water. In the middle of the 20th century, fluoride was prescribed by a number of European doctors to reduce the activity of the thyroid gland for those suffering from hyperthyroidism (overactive thyroid) (Stecher 1960; Waldbott 1978). According to a clinical study by Galletti and Joyet (1958), the thyroid function of hyperthyroid patients was effectively reduced at just 2.3 to 4.5 mg/day of fluoride ion. To put this finding in perspective, the Department of Health and Human Services (DHHS, 1991) has estimated that total fluoride exposure in fluoridated communities ranges from 1.6 to 6.6 mg/day. This is a remarkable fact, particularly considering the rampant and increasing problem of hypothyroidism (underactive thyroid) in the United States and other fluoridated countries. Symptoms of hypothyroidism include depression, fatigue, weight gain, muscle and joint pains, increased cholesterol levels, and heart disease. In 2010, the second most prescribed drug of the year was Synthroid (sodium levothyroxine) which is a hormone replacement drug used to treat an underactive thyroid.

People with impaired kidney function are particularly vulnerable to bone damage. Because of their inability to effectively excrete fluoride, people with kidney disease are prone to accumulating high levels of fluoride in their bone and blood. As a result of this high fluoride body burden, kidney patients have an elevated risk for developing skeletal fluorosis. In one of the few U.S. studies investigating the matter,

crippling skeletal fluorosis was documented among patients with severe kidney disease drinking water with just 1.7 ppm fluoride (Johnson 1979). Since severe skeletal fluorosis in kidney patients has been detected in small case studies, it is likely that larger, systematic studies would detect skeletal fluorosis at even lower fluoride levels.

"I am most deeply concerned for poor families who have babies: if they cannot afford unfluoridated water for their babies' milk formula, do their babies not count? Of course they do. This is an issue of fairness, civil rights, and compassion. We must find better ways to prevent cavities, such as helping those most at risk for cavities obtain access to the services of a dentist."

http://fluoridealert.org/articles/50-reasons/

<u>HB-577</u> Submitted on: 2/6/2018 8:31:01 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Kristina Wium		Oppose	No

<u>HB-577</u> Submitted on: 2/6/2018 9:43:51 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Brian Murphy	Patients Without Time	Oppose	No

Submitted on: 2/6/2018 9:56:13 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Sonja Kass		Oppose	No

Comments:

Dental health is better achived by topical application of flouride. Flouride in the drinking water has side effects, and many countries in Europe did studies on them, in the end more than 97% of the European communities choose not to flouridate the drinking water because the side effects were too worrysome. People should have the freedom of choice whether they want their water flouridated - they can add the flouride at home - or they want their water pure.

Submitted on: 2/6/2018 11:10:50 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Robert Petricci		Oppose	No

Comments:

Aloha

My name is Robert Petricci. I strongly opposed to floridation of the "public" water supply. Many of us do not want to be subjected to floride against our will. If people want floride there are plenty of ways to get it, ti force people to injest floride by contaminating the water supply subverts freedom and free choice of what we put into our bodies. Please oppose HB577

Thank you for you consideration,

Robert Petricci

Submitted on: 2/6/2018 11:31:19 PM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
carla favata		Oppose	No

Comments:

Given that fluoride is handled as a hazardous material and labeled accordingly, the lack of transparency about its health effects is a true public health travesty. several of the scientifically proven health effects of fluoride are already known. Research has shown fluoride has been shown to:

- Accelerate the aging process
- Cause genetic damage
- Contribute to arthritis and joint pain
- Increase the incidence of cancer and tumor growth
- Interrupt DNA repair

<u>HB-577</u> Submitted on: 2/7/2018 12:29:08 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Sharon Nagasako		Oppose	Yes

Comments:

Submitted on: 2/7/2018 1:29:49 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Zachary Mermel	Hawai'i Organic Farming Association	Oppose	No

Comments:

To whom it may concern,

I strongly oppose HB577, which proposes to create programs and policies to fluoridate community water supplies across our state.

Submitted on: 2/7/2018 5:12:38 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Nedi McKnight		Oppose	No

Comments:

Gentlepersons,

Please do not add flouride to community water. Residents can better be served by dental outreach programs, like the Tooth Bus, and educational programs about dental health. I personally do not want another chemical in my drinking water and will upgrade to a more effective water filter, should this misguided bill pass.

Thank you,

Nedi McKnight, Pa'auilo, HI

Submitted on: 2/7/2018 5:54:17 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Carlton York		Oppose	No

Comments:

Not only is Fluoride a dangerous nerotoxin, It also weakens dental enamel when administer in this fashion there is no benefit from this type of supplementation and a large potential down side strongly Oppose!

<u>HB-577</u> Submitted on: 2/7/2018 5:59:02 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Mary Lacques		Oppose	No

Comments:

Submitted on: 2/7/2018 7:06:23 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Laurie West		Oppose	No

Comments:

I **STRONGLY OPPOSE** HB577. Learn about the history of municipal water fluoridation—it's toxic industrial waste. Here's an article about it: https://articles.mercola.com/sites/articles/archive/2010/07/01/paul-connett-interview.aspx

Submitted on: 2/7/2018 7:11:11 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Kenneth Dunning		Oppose	No

Comments:

I have been involved with the issue of Fluoridation for over 10 years. Increasingly research data shows ingesting fluoride to involve several health risks. Research done by Dr. Phyllis Mullenix showed small doses of fluoride to produce ADHD type symptoms in rats. Research by Dr. Jennifer Luke showed fluoride to diminish the function of the pineal gland. Dr. William Marcus, formerly Senior Science Advisor in the E.P.A.'s Office of Drinking Water, was fired for expressing his sincere concerns over fluoride's carcinogenic properties. The kidneys, thyroid and bones are also at risk with long term ingestion of fluoride.

The E.U. chose not to fluoridate and increasingly communities all over the U.S. are choosing to either reject fluoridating their wate or, if they have already started fluoridating, to stop doing so. Along with the risks to human health, fluoride can pose a threat to the water delivery system potentially corroding pipes and leaching additional dangerous chemicals into the water.

While I do not live in Hawaii, our son and his family do. I have a personal interest in this issue. I respectfully ask that you carefully review all the data concerning the health risks posed by long term ingestion of even small amounts of fluoride. Fluoride is a toxic substance that accumulates in the body so even small doses, over time, add up.



<u>HB-577</u> Submitted on: 2/7/2018 9:01:12 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Elyse Warren		Oppose	No

Comments:

Submitted on: 2/7/2018 9:01:33 AM

Testimony for HHS on 2/7/2018 10:30:00 AM



Submitted By	Organization	l estitier Position	Present at Hearing
Jon Woodhouse		Oppose	No

Comments:

In a 1997 article, "Fluoride, Teeth, and the Atomic Bomb," authors, Joel Griffiths and Chris Bryson, discovered that: "Fluoride was the key chemical in atomic bomb production...millions of tons...were essential for the manufacture of bomb-grade uranium and plutonium for nuclear weapons throughout the Cold War."

World War 2 era documents revealed that fluoride was the most significant health hazard in the US A-bomb program, for workers and for communities around the manufacturing facilities.

"Much of the original proof that fluoride is safe for humans in low doses was generated by A-bomb program scientists, who had been secretly ordered to provide 'evidence useful in litigation' [against persons who had been poisoned by fluoride and would sue for damages]... The first lawsuits against the US A-bomb program were not over radiation, but over fluoride damage, the [government] documents show."

They found that evidence of adverse effects from fluorides had been suppressed by the US Atomic Energy Commission.

In the 1990s, Phyllis Mullenix, the head of toxicology at Forsyth Dental Center in Boston, conducted a series of animal studies which also showed that fluoride was a powerful central nervous system (CNS) toxin. "First of all, that if you put sodium fluoride in the drinking water of young animals, that with time – meaning a period of weeks in a rat's lifetime – they would develop changes in their behavioral patterns. And that pattern change was a hypoactivity pattern. They became slower, 'couch potatoes'."

She discovered if you give prenatal exposure you get a hyperactivity, and if you give a postnatal exposure you get a hypoactivity.

Fluoride is dangerous, we don't need it in Hawaii. Proper tooth hygiene is the key.

Submitted on: 2/7/2018 10:29:49 AM

Testimony for HHS on 2/7/2018 10:30:00 AM



Submitted By	Organization	Testifier Position	Present at Hearing
Karen Chun	many different	Oppose	No

Comments:

I oppose water flouridation because it is using a sledge hammer on a job that requires something smaller and more targetted.

I gave my kids flouride during the time their permanent teeth were forming and they don't have cavities.

There is no utility (and in fact a tiny possibility of harm) in dosing everyone in the population with flouride throughout their whole life.

Better to use the money to make pills free and do an education campaign.

Yeah, a lot of what opponents say is scientifically inaccurate (and some like flouride is an industrial waste product that since the EPA prohibited dumping. In waterways is being agressively marketed is true) but it is their right to have water with as few additives as possible and make their own decision.

I was born before they knew the benefits of flouride so my teeth require choke money and are not lasting as long as they could.

But it is not such a bad consequence that we should impose flouridation on people who don't want it...or on the majority of the population who won't benefit from it.

So bottom line is although my kids had good results with fluoride pills, I don't think it is right for us to impose across-the-board fluoridation on people who don't want it and the vast population that doesn't need it.



<u>HB-577</u> Submitted on: 2/7/2018 10:56:43 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Becky Jacobs		Oppose	No

Comments:

Consuming fluoride should be a personal choice. It's not a benign substance.



Submitted on: 2/7/2018 11:11:13 AM

Testimony for HHS on 2/7/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
dr melissa yee		Oppose	No

Comments:

Many people worked on the fluoridation issue in the 1970's and late 1990's and successfully passed a law in 2004 in the City Council of Honolulu to not use the water supply to medicate for a condition because it would mean that all who drank the water would be medicated without their informed consent. The main points you should know are that the fluoride used in fluoridation is a waste product from the phosphate fertilizer, atomic bomb and aluminum industries, is not pharmaceutical grade and found to cause greater risk of hip fractures, lower IQ, and skeletal and dental fluorosis. Hawaii prides itself on its naturally filtered water and the Board of Water Supply still uses the logo Pure Water. It is the diet of the children today causing decay. Also fluoride was given to residents on Lanai and Molokai during the plantation days and the children still had an increase in dental decay when they reached the age of 12. Many cities and counties are now rejecting fluoride because of the additional cost and labor. Europe does not fluoridate, and towns in China with high fluoride in the soil have evacuated its residents due to crippling skeletal fluorosis.

Submitted on: 2/7/2018 11:18:43 AM

Testimony for HHS on 2/7/2018 10:30:00 AM



Submitted By	Submitted By	Organization	Testifier Position	Present at Hearing
	Stephen Paselk	Citizens4AHealthierMaui	Oppose	No

Comments:

I oppose any attempts to adulturate water supply with flouride and I question claims of its

benefits. Let the people who want to supplement with flouide do so on their own as a nutritiional

supplement but do not force it on everyone. We have a right to know what we are exposed to

such as pesticides and should have a right to avoid exposure. The unaware and poor will

not be able to afford reverse osmosis filtration to remove the flouride if added against our consent.