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# Developing Public Health Interventions with Xylitol for the US and US-Associated Territories and States

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# Summary

This paper examines how the limited exposure of the professional dental community in the United States to the potential caries reduction benefits of xylitol, and the absence of vehicles for xylitol that could be recommended in private practice settings or applied in public health programs, has retarded xylitol's adoption. Few papers appeared in the English language literature prior to the last two decades but now a greater number are appearing. Current work at the University of Washington has led to a series of randomized controlled trials more clearly establishing dosing and frequency guidelines and increased interest in use of xylitol products for caries prevention. Steps to develop effective alternative vehicles for the delivery of xylitol particularly useful for young children and institutional settings in America, and their bioequivalency, are explored.

## Keywords

cariostatic agents; xylitol; dental caries

In the United States xylitol use for the prevention and reduction of dental caries has not taken off as it has in Finland where the effect of xylitol use in the reduction of dental caries was first realized (1). This paper examines the hypothesis that until recently the limited exposure of the professional dental community in the United States to the potential caries reduction benefits of xylitol, and the absence of vehicles for xylitol that could be recommended in private practice settings or applied in public health programs, has retarded xylitol's adoption. The paper reviews the current work of our laboratory conducting a series of randomized controlled trials to more clearly establish the dosing and frequency basis for the use of xylitol containing products for the prevention of dental caries, and potentially acute otitis media. It outlines present and future steps in our attempts to develop effective alternative vehicles for the delivery of xylitol particularly useful for young children.

Xylitol has a forty-plus year history of use in the United States, yet it is only in the last five years that its use as a dental therapeutic agent has begun to increase substantially. Xylitol was approved for use by the US Food and Drug Administration (FDA) as early as 1963 as a food additive. Initially its primary use was in the diets of diabetics. It has also been used in small amounts in foods labeled as "sugar-free." Thus the use of xylitol has not been wide spread or in sufficient concentration in products in the market to effect dental caries during the first several decades of its use in the United States.

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## Limited Exposure in the US Professional Community

To assess the exposure of the professional dental community to the literature and research available on the potential benefits of xylitol, a search was conducted of the PubMed database to identify papers on xylitol and dental caries published in English and involving humans for the period 1965 to 2005. Figure 1 gives the result indicating a trend from 1965 to 2005 of a gradual increase in literature available to clinicians on this subject. The only exception to the trend was from 1976 to 1980 when the Turku sugar studies were published. Nevertheless, the number of papers is relatively small and might explain the modest adoption of xylitol as a preventive agent in the United States.

The first significant dental recommendations for the use of xylitol began to appear in the dental literature in the United States in the early 1990's. Anderson, et al., presented the medical model approach to dental caries incorporating the use of sealants, antimicrobials, fluorides and xylitol (2). During this same period the dental products company, Henry Schein, made xylitol gum (XyliFresh, Leaf OY, Turku, Finland) available through its distribution channels (2). The Calorie Control Council published its brochure on the use of xylitol for dental caries reduction (3). Despite this priming of awareness of xylitol's potential, its incorporation into the preventive armamentarium of dentists remained limited. Several factors have been barriers. A key barrier is the lack of availability of effective products to offer patients: the food and candy industry that produces products containing xylitol sees them as consumer products and not preventive agents. In these products xylitol has typically been used only in small amounts for its sweetness in both sugar containing items and sugar-free products. XyliFresh gum was unique in that it was 100% xylitol sweetened as it was developed with Finnish researchers to study the effect of xylitol on dental caries. However, its availability in the United States was limited to access through a dental distributor (it is no longer available through Henry Schein) and it had to be ordered and reordered as the xylitol habit has to be consistently maintained for effectiveness. The cost of the gum was significant and added to the burden of maintaining a habit.

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Data breaking out demand for xylitol specifically for dental uses by year in the US over time are not publicly available but demand appears to have been low. More recently market forces have begun to change this dynamic shaped by increasing evidence for the role of xylitol in reducing the incidence of dental caries. Specialty companies are starting to produce xylitol products directed at the dental consumer and it appears demand may be outstripping supply of

# Xylitol Products Available in the US Marketplace

Tables 1 and 2 list xylitol vehicles widely available in the US, concentrations of xylitol and the estimated cost per day for xylitol use if the user buys the product in the consumer market. These tables are updated versions of ones we previously published as such products and costs are constantly changing (4). As can be seen, the most effective vehicles are still primarily chewing gums and the cost per day is quite high. The tables also show that many products are so poorly labeled that consumers and dentists cannot judge properly whether they should be advocated. In order to have any meaningful impact on the US caries problem, purchases will need to be made in bulk at lower unit prices and distributed at low or no cost to families in poverty. Dental caries prevalence in the US is inversely related to family income and dental care for this part of the population is severely limited.

consumer not dental consumers and professionals. As a general rule the amount of xylitol in these products is often not clearly labeled. Such labeling is not required under US law.

Xylitol gum is being used in a publicly financed program for dental care access for pregnant women and their babies in rural Klamath Falls, Oregon. In this program, dentists are distributing xylitol gum free to new mothers who receive their dental care as part of the program. These private dentists are doing this because they are paid to provide dental care for the mothers and children at a fixed monthly rate and their profits are higher if dental disease is reduced. However, compliance with the use of the gum appears limited and we have much to learn about methods that would be most effective. Some private dental insurers have partnered with specialty companies whose focus is on producing dentally effective xylitol products to offer them at a reduced rate to their clients.

Xylitol chewing gum is not included on the formulary of Medicaid, the government insurance program that includes free dental care benefits for children and pregnant women from low-income families. The use of xylitol against dental caries was first recommended in a National Institutes of Health consensus conference in March 2001 (5). The American Dental Association does not have a formal position statement on the use of xylitol. The American Academy of Pediatric Dentistry is developing one. Thus, it is unlikely that government insurance programs will be moved soon to provide low cost access to xylitol containing products.

#### Lack of Dosing and Frequency Guidelines

Another factor limiting the substantial use of xylitol until recently has been the lack of clear guidelines for making recommendations on how to use it effectively. Dental professionals have had to extrapolate from numerous studies using different products, even in a single study, different doses, and variable frequencies as to how xylitol use should be recommended to our patients. Dosing and frequency guidelines for xylitol have not been fully developed for its use as a therapeutic agent because there have been no prospective studies designed to determine the dose-response and frequency-response relationship of xylitol and *S. mutans* or dental caries thus establishing the minimum effective amount and frequency for using xylitol.

Our laboratory has now conducted a prospective series of studies with adults chewing xylitol gum to clarify the relationship of dose and frequency of use of xylitol to the reductions of mutans streptococci levels in plaque and saliva. In the initial dosage study (6), participants with

high levels of mutans streptococci were randomly assigned to one of four groups given increasing amounts of xylitol per group. All groups chewed 12 pellets of gums per day divided into four pre-packaged administrations per day achieving the assigned xylitol dosage via a combination of control (sorbitol) and xylitol gum pellets. The participants were followed for six months taking plaque and saliva samples at baseline, five weeks, and six months. The study concluded that mutans streptococci levels were reduced in plaque and saliva with increasing doses of xylitol, with the effect leveling off between 6.88 g/day and 10.32 g/day (Figure 2). Although the smallest dose in the study, 3.44 g/day, showed a reduction, the difference was not statistically significant.

The second study in the series examined the relationship of the frequency of use of xylitol to the reduction of mutans streptococci at the maximum dosage used in the first study (7). Eligible adult participants with high levels of mutans streptococci were randomly assigned to one of four groups and followed over five weeks with plaque and saliva samples taken at baseline and five weeks. Three groups chewed gum containing 10.32 g/day of xylitol divided into two, three, or four administrations per day. The fourth group chewed an equal amount of the control gum (sorbitol) divided into four administrations per day. The results demonstrated a linear response where increasing frequency of use is associated with decreasing levels of mutans streptococci in plaque and saliva (Figure 3). However, although a reduction was observed with xylitol use of two times per day and the reduction was consistent with the linear line model, the difference was not statistically significant when compared to the sorbitol control group. These results are consistent with previous clinical findings. Thus, a range of 6 to10 grams divided into at least three consumption periods per day is necessary for xylitol chewing gum to be effective.

# Alternatives to Xylitol Chewing Gum

Chewing gum has been established as the most effective vehicle for the delivery of xylitol to the oral cavity. However, though this may be an effective means of consuming xylitol for most adult populations, it is a limiting factor for its use in small children and as a public health method of intervention in organized preschool programs.

The US has few organized caries prevention programs outside of public preschool programs called Head Start or in elementary schools with high concentrations of children from low-income families (often referred to children on free or reduced fee school lunch programs). In Head Start, programs are required to have children brush their teeth under supervision with fluoridated toothpaste and some programs in communities without fluoridated water dispense fluoride tablets. Head Start programs also are required to see that the children, typically about four years old, receive a dental examination and needed restorative care. However, compliance with these requirements varies as many dentists in these communities refuse to see such children and the poorest children live in communities with the most limited available dental care. Some elementary schools have fluoride rinse programs with little supervised tooth brushing or distribution of fluoridated toothpaste. These preventive efforts already have a track record for being difficult to carry out and the absence of an appropriate vehicle for xylitol delivery in organized programs remains a barrier to its adoption.

The American Academy of Pediatrics (AAP) does not recommend chewing gum use in children under four years old because of the risk of choking (8). Recent AAP policy, *Oral Health Risk Assessment Timing and Establishment of the Dental Home*, does recognize the value of xylitol gums for older children in its section on anticipatory guidance and patient education (9). On the other hand, teachers generally are opposed to the use of chewing gum at school (10). There are also concerns by teachers about being saddled with preventive health responsibilities that detract from teaching.

A large part of the caries problem is also centered in ethnic and minority preschoolers and their mothers. Thus any vehicles that would be used to deliver xylitol must be culturally appropriate as well as safe. Some minority cultures include proscriptions from gum chewing, at least during pregnancy. As can be seen in the Table, several xylitol-containing fluoridated toothpastes are being sold in the US. If such toothpastes were confirmed to be effective and child friendly, supervised brushing programs might be a partial answer to the dissemination problem.

A vehicle that delivers xylitol effectively in an organized caries prevention program for small children must be cost effective, appeal to children, and be easy to administer. In an effort to assess other possible vehicles our studies have sought to evaluate the acceptability (11,12) and compare the bioavailability of xylitol in snack foods and milk to xylitol chewing gum in both adults and children. The studies have demonstrated that children are willing to consume food snacks containing xylitol at school. Current work will demonstrate similar bioavailability and effectiveness of xylitol when chewing gum is compared to a chewable candy at comparable doses and frequencies.

An additional study is underway testing the effectiveness of xylitol syrup for the prevention of both dental caries and acute otitis media in infants in a US-associated island state. Such work hopefully will point to xylitol as a potential solution to the very high levels of both tooth decay and ear infections in isolated rural populations in the US and affiliated states. This work will also extend the previous limited findings of xylitol's effect on acute otitis media (13).

#### Adoption of Xylitol by American Dentists is Slow

The benefits of xylitol in caries control and reduction have been well established over the last several decades through numerous research studies. Nevertheless, it is clear that the professional dental community in the United States has yet to adopt the use of xylitol on a routine basis either in private practice or in community health programs. It is interesting to note that the rate and method by which new modalities are adopted by groups in society such as the dental profession has been studied and identified as the diffusion theory. According to this theory innovations are not adopted on their own merits, but through predictable patterns of communication. Fiset and Grembowski used the diffusion theory to evaluate the adoption of the medical model in dentistry for the treatment of caries: use of sealants, fluoride varnishes, chlorhexidine rinses, and salivary function tests (14). Additionally, they assessed what factors made practitioners early adopters versus late adopters of this model of care. Typically the early adopter of a new service had dentist friends who were using it, whereas reading journals and continuing education did not affect the rate of adoption of these services.

Diffusion research may indicate that the limited exposure of the professional dental community in the United States to the potential dental benefits of xylitol will not be remedied by more being written about xylitol in the scientific literature. It appears rather that the pattern of adoption is similar to the effect of the ripples in a pond. The early adopters as always will try new techniques, innovations, and models and the late adopters will get on board as it becomes necessary to keep up with the trend. The medical detailing approach favored by pharmaceutical companies may be helpful as might introduction of xylitol at dental study clubs and courses. There is also likely to be a certain amount of market pressure from internet literate dental consumers regarding the availability and use of xylitol products. The number and variety of products containing xylitol has recently begun to increase and direct consumer advertising is likely to follow.

As the guidelines for the effective use of xylitol are being clarified, the demand by consumers and dental professionals for well labeled, less expensive products may also affect the producers. The xylitol habit must be maintained to remain effective. While this plays into the hand of those who manufacture the products, it behooves the dental profession to seek delivery vehicles

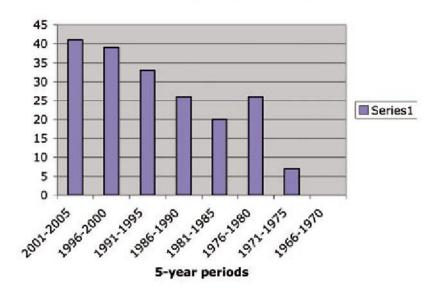
that decrease the burden of use for those who need it most (15). Real solutions to the adoption of xylitol rest in the hands of insurance companies, government program administrators and their advisors, and in organized programs for those who suffer health disparities (16). Diffusion of the use of xylitol as a caries prevention measure remains a challenge, but the greater challenge is to find a method and the appropriate vehicle to incorporate this potent tool into the community dental health programs of those high-risk populations who need it the most.

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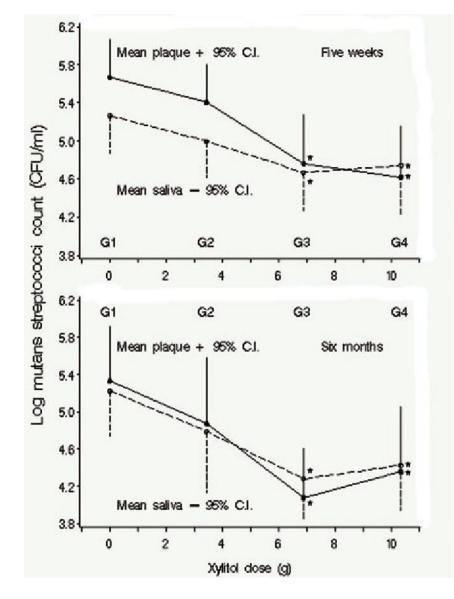
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# **Xylitol Papers (Human, English)**

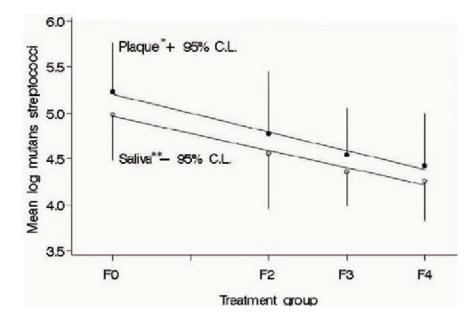
#### Figure 1.

The number of human papers on xylitol and dental caries appearing in English language journals between 1966 and 2005.



#### Figure 2.

Mean log10 CFU mutans streptococci/mL in plaque and unstimulated saliva by xylitol dose at 5 wks and at 6 mos. G1 is the condition in which subjects chewed the sorbitol placebo, G2 is the condition in which subjects chewed gums where the total daily dose was 3.44 g of xyliltol, G3 is the condition in which subjects chewed gums where the total daily dose was 6.88 g of xyliltol and G4 is the condition in which subjects chewed gums where the total daily dose was 6.88 g of xyliltol. Subjects were randomly assigned to conditions and each person chewed the same number of pellets per day (12) divided into four periods. \*Significant-difference group compared with placebo (G1) in least-significant-difference multiple comparisons. Reprinted with permission from J Dent Res 2006;85(2):177–81.



#### Figure 3.

Mutans streptococci counts in plaque and unstimulated saliva at five weeks and best fit linear line. F0 is the condition in which subjects chewed the sorbitol placebo four times per day. F2 is the condition in which the subjects chewed gum two times per day; F3 was the condition in which the subjects chewed gum three times per day; and F4 was the condition in which subjects chewed gum four times per day. In F2 to F4, the total dose per day of xylitol was 10.32 g. Subjects were randomized to conditions. Reprinted with permission.

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**Table 1** Xylitol-Containing Gums and Mints Available in U.S. Markets, Their Xylitol Content, Preventive Potential, and Approximate Cost<sup>‡</sup>

PRODUCTS <sup>#†</sup>	XYLJTOL per piece (g) [total polyols (g)]	PIECES FOR 6 (10) g/day	PREVENTIVE Potential <sup>††††</sup>	APPROXIMATE COST/10 pieces
Biogenesis "Xylitol Fruit Gum" Clen-DenVXponent Gum (various flavors) ElimiTaste "Zapp" & "Smoke Screen" gums Elma "MASTICgum" Emerald Forest "Ricochet Xylitol Gum" Emerald Forest "Ricochet Xylitol Gum" Epic – Xylitol Gum (various flavors) Fennobon Oy "XyliMax Gum" Hershey "Carefree Koolerz Gum" (various flavors) Lotte – Xylitol Gum (various flavors) Nature's Provision "Smart Smile Gum" (Xylipro) Omnii "Theragum" Spry Xylitol Gum (various flavors) Tundra Trading "XyliChew Gum" Vitamin Research "Unique Sweet Gum" WellDent Xylitol Gum (Cinnamon/Peppermint) B-Fresh Gums (various flavors) BreahRx "Halispheres Sugar-Free Gum" Hershey "Ice Breakers Ice Cube" Gum Stathocks "After Coffee Gum" Peppermint & Tangerine	$\begin{array}{c} 0.72 \\ 0.67 \\ 1.00 \\ 0.53 \\ 0.72 \\ 1.05 \\ 0.72 \\ 1.05 \\ 0.86 \\ 1.50 \\ 0.65 \\ 0.72 \\ 0.70 \\ 0.72 \\ 0.70 \\ 0.72 \\ 0.70 \\ 0.72 \\ 0.72 \\ 0.70 \\ 0.72 \\ 0.70 \\ 0.72 \\ 0.71 \\ 0.70 \\ 0.72 \\ 0.71 \\ 0.70 \\ 0.72 \\ 0.71 \\ 0.72 \\ 0.70 \\ 0.72 \\ 0.71 \\ 0.72 \\ 0.$	8(14) 9(15) 6(10) 6(10) 6(10) 8(14) 9(14) 9(14) 9(14) 8(14) 8(14) 8(14) 8(14) 8(14) 8(14) NC NC NC NC NC	Yes Yes Yes Yes Yes Yes Yes Yes Yes Maybe Maybe Maybe	<ul> <li>\$1.30 - \$1.90 online</li> <li>\$0.70 - \$1.30 online</li> <li>\$0.70 - \$1.30 online</li> <li>\$2.25 online</li> <li>\$2.25 online</li> <li>\$0.75 - \$0.85 online</li> <li>\$0.76 - \$1.00 online</li> <li>\$0.80 - \$1.00 online</li> <li>\$0.80 - \$1.00 online</li> <li>\$0.70 - \$0.90 online</li> <li>\$1.50 - \$1.50 retail</li> <li>\$0.75 - \$1.50 online</li> <li>\$1.50 - \$1.65 retail</li> <li>\$0.75 - \$1.00 online</li> <li>\$1.50 - \$1.00 online</li> <li>\$0.75 - \$1.00 online</li> <li>\$1.50 - \$1.00 online</li> <li>\$1.50 - \$1.00 online</li> <li>\$0.80 - \$1.00 retail</li> <li>\$1.00 retail</li> <li>\$1.00 retail</li> <li>\$1.00 retail</li> </ul>
Arm & Hammer "Dental Care Baking Soda Gum" Arm & Hammer "Dental Care Baking Soda Gum" Arm & Hammer "Advance White Icy Mint Gum" Biotene "Dry Mouth Gum" Dentyne "Tango Gum" Eco-Dent "Between Dental Gum" (various flavors) Ferndale "glean whitening gum" Tully's "vanilla mint gum" Wamer-Lambert "Trident Gum with Xylitol" (pellet) Warner-Lambert "Trident Gum with Xylitol" (pellet) Warner-Lambert "Trident Gum with Xylitol" (pellet) Warner-Lambert "Trident Gum with Xylitol" (pellet) Wrigley "Orbit Sugar-Free Gum"	$2^{nd}$ of 3 polyols [1.0] $2^{nd}$ of 3 polyols [1.0] $2^{nd}$ of 3 polyols [1.0] $4^{th}$ of 4 polyols [1.0] 0.35 $0.05$ $3^{nd}$ of 4 polyols [0.7] $2^{nd}$ of 5 polyols [1.0] $2^{nd}$ of 3 polyols [1.0] $3^{nd}$ of 3 polyols [1.0]	NC NC NC 17 (29) 17 (29) NC NC NC NC	U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0.80 - \$1.00 retail \$1.00 - \$1.30 retail \$1.00 - \$1.40 retail \$0.07 - \$1.10 online \$1.05 - \$1.10 online \$0.75 - \$110 online \$0.75 - \$110 online \$1.05 retail -Tully's \$0.55 - \$1.00 retail \$1.20 - \$1.40 retail \$1.20 - \$1.40 retail \$0.72 - \$0.80 retail \$0.65 - \$0.85 online
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PRODUCTS <sup>††</sup>	XYLITOL per piece (g) [total PIECES FOR 6 polyols (g)] (10) g/day	PIECES FOR 6 (10) g/day	PREVENTIVE Potential <sup>†††</sup>	APPROXIMATE COST/10 pieces
Tic Tac "Silvers" (contains sugar)	NC	NC	No	\$0.20 - \$0.25 retail
$\dot{\tau}$ Cost varies based on retail, convenient stores, and internet vendors. Stated cost based on a few Seattle retailers or internet vendors.	id internet vendors. Stated cost based on a fe	w Seattle retailers or inte	rnet vendors.	
$t^{\dagger}$ Product list is not exhaustive. Xylitol market is rapidly changing and new xylitol containing products appear frequently.	rapidly changing and new xylitol containin	g products appear freque	ıtly.	

 $t + t^{+}$ , ves", "No", or "Maybe" is based on the potential a person is willing to consume 2-3 pieces, 3 to 5 times per day to meet the effective dose range of 6 to 10 grams per day. Products with potential for effectiveness but xylitol dose is either unknown or required consumption is > 10 pieces per day to provide 6 g of xylitol are assigned "Maybe".

\* NC = Not Certain. Information can not be derived from internet vendor, or market packaging, or not successful in obtaining information from vendors' information representatives.

#### Table 2

Xylitol-Containing Diet, Oral Hygiene, and Healthcare Products Available in U.S. Markets, and Their Xylitol Content

Barry Fam Sagar Free Jam (various flavors) $3.6 g/ 20$ gerving (3%) $55.0010 oz.onlineBarry Fam Sagar Free De Filling (various4 = 5 gherving (36%)51.0032 oz.onlineBardo Lavors)4 = 5 gherving (36%)51.0037 oz.onlineBarcola Derving20 g/2 oz serving50.0015 oz. baronlineBarcola Dervest "Lean"s Jam" (various flavors)12 g/1 they serving50.0012 oz.onlineBarcola Dervest "Lean"s Jam" (various flavors)12 g/1 they serving50.0012 oz.onlineBarcola Dervest "Lean"s Jam" (various flavors)12 g/1 they serving50.0012 oz.onlineBarcola Dervest "Lean"s Jam" (various flavors)12 g/1 they serving50.0012 oz.onlineBranca Dervest "Lean"s Jam" (various flavors)12 g/2 0 gerving50.0012 oz.onlineBrance Stock Dervest "Jasch"13 - 25 g/20 gerving50.0012 oz.onlinePesserves23 g/20 gerving (7%)55.4010 oz.onlineNature's Mellou - Sugar Free Chocolate7 g/20 gerving (7%)55.0010 oz.onlineBavers Jourden - Sugar Free Net Schup8 g/20 gerving (7%)55.001 oz.onlineSmart Sveet Xylitol Jam (various flavors)8 g/20 gerving (7%)55.001 oz.onlineSmart Sveet Xylitol Jam (various flavors)8 g/20 gerving (7%)55.001 oz.onlineSmart Sveet Xylitol Jam (various flavors)8 g/20 gerving (7%)55.001 oz.onlineSmart Sveet Xylitol Jam (various flavors)8 g/20 gerving (7%)55.001 oz.o$	PRODUCTS <sup>*</sup>	XYLITOL Content	$\mathbf{COST}^{\dagger}$ per unit	AVAILABILITY
Bary Fare Re Filling (various Harrows)45 generation (36%)\$11.00.22 or.online onlineBuddus Bary Vitality Bar Dr Rey 's Polucier Cifit Xyling (Lowise' P. Rey 's Polucier Cifit Xyling (Uagar-free all Borows) $4-5$ g/bar 20 g/2 or svring 20 g/2	ENERGY BARS & FOOD:			
Hardor, DeviceConstructionBandba Baz-Vitality Bar Dr. Ray's Products "Guila Licorice" $4-5$ g/bar 27% piace $33.00$ bar $30.7530$ piacesonline onlineDr. Ray's Products "Guila Xylinol Licorice" $27\%$ piace $30.7530$ piacesonline onlineBarcarosaTan's Amir' (various flavors) $12$ g/1 bip sarving $56.0012$ oz. sorvingonline onlineFran Garé's "Decadem Dessents" Mix (various $15-25$ g/30 g serving $57.000$ canisteronline onlineFran Garé's "Decadem Dessents" Mix (various $15-25$ g/30 g serving $57.000$ canisteronline onlineNature's Hollow Choby - Sugar Free Jam $4.5$ g/20 g serving $55.4010$ oz. onlineonline onlineNature's Hollow - Sugar Free Kehup $0.8$ g/20 g serving (3%) $55.5010$ oz. onlineonline onlineNature's Hollow - Sugar Free Kehup $0.8$ g/20 g serving (3%) $55.5010$ oz. onlineonline onlineBrearesDisar Sveet Xylinol Toolpaste" $10\%$ $56.00-58.004.5oz$ ertail & onlineCalcium)Decode Mint Toolpaste" $10\%$ $53.00-43.0oz$ or onlineCalcium)Dordy Staf Wile K exchup $10\%$ ( $1\%$ sodium fluoride) $53.00-43.0oz$ or onlineDrawer DivNur 's Hollow - Sugar Free Kehup $10\%$ ( $1\%$ sodium fluoride) $53.00-43.0oz$ or onlineDrawer DivStaf Staf Staf Staf Staf Staf Staf Staf	Barry Farm Sugar Free Jam (various flavors)		\$5.00/10 oz.	online
Baddah Bardvitality Bar4 - 5 gbar53.00baronlineDr.Ry's Products 'Gitt Xylino Licorice"27 Wojcice50.7530 piccesonlineEmeral Forest - Fudge Bar (sugar-free all Emeral Forest - Tudge Bar (various flavors)2 g1 they serving\$6.0012 or.onlineFinancia1 g bar\$2.70baronlineonlineFinancias - 'S Lac"13 - 16 g/bar\$3.00baronlineFinancias - 'S Lac"13 - 16 g/bar\$3.00baronlineKatt Hell O Pudding Sugar Free Chocolate7 g/serving\$3.00baronlineNature's Infolio (Pobla) - Sugar Free Chocolate7 g/serving\$5.4010 oz.onlineNature's Hollow - Sugar Free Symp (various2.8 g/d0 g serving (8%)\$5.5010 oz.onlineNature's Hollow - Sugar Free Symp (various)8 g/20 g serving (8%)\$5.0010 oz.onlineSond Sweet Xylino Jam (various flavors)8 g/20 g serving (8%)\$5.004 oz.onlineCorest Muticace Coll Min Toothpaste"10%\$3.00 - \$8.004 5ozretail & onlineCorest Muticace Coll Min Toothpaste"2% (2.02 serving 10%)\$3.00 - \$4.90.4 oz.retail & onlineCorest Muticace Coll Min Toothpaste"3%\$5.001 0z.onlineCorest Muticace Coll Min Toothpaste"2%2% sodium fluoride)\$3.20 - \$4.90.4 oz.retail & onlineCorest Muticace Coll Min Toothpaste"2%2% sodium fluoride)\$7.00 - \$5.004.5 oz.retail & onlineCorest Muticace Coll Min Toothpaste"2%2%\$5.00 - \$6.004.9 oz.onlineCorest Muticace C		45 g/serving (36%)	\$11.00/32 oz.	online
Dr. Ray's Products, "Gift Xytliol Liconics" 27% piece 80.75/30 pieces online Einerald Forst Audity Study 15 or bar online 15 o			** ***	
Emeration Forest - Fudge Bar (squar-free all point of the serving strong str				
Barons)The origination of the origination or				
Einerhil Forest "Lends Jame" (various flavors)         12 g/l they serving         \$2.70 hor         online           Fant Gress "S "Decadent Desserts" Mix (various proving         13 log part         \$2.70 hor         online           By Rob Instruction (Probs) - Sugar Free Lum         13 log part         \$3.00 har         online           Matter S Hollow - Sugar Free Chocolan         4.5 g/20 g serving         \$3.00 har         online           Preservice         4.5 g/20 g serving         \$5.400.85 oz.         online           Matter's Hollow - Sugar Free Ketchup         0.8 g/20 g serving (%)         \$5.50/10 oz.         online           Matter's Hollow - Sugar Free Ketchup         0.8 g/20 g serving (%)         \$5.00/10 oz.         online           Matter's Hollow - Sugar Free Ketchup         10%         \$5.00/10 oz.         online           Galomin         Construction Hordipaster (Gel (*/-         10%         \$5.00/10 oz.         online           Galomin         Construction Hordipaster (Gel (r) S)         \$5.00         \$5.00/10 oz.         online           System State (Set (Set (*/-         10%         \$5.30/10 oz.         online         Galomin           Construction Hordipaster         10%         \$5.00 - 5.20.00z.         online         Galomin           Construction Hordipaster         10%         \$		20 g/2 oz serving	\$10.00/15 oz. bar	online
E Enterprise -"3 Bar" 1 gbar 2 5.25 y0 garving 57.00 cm online pressure on the set of t	,	12  g/1 then serving	\$6.00/12.07	online
Fran Gair's "Decadent Desserts" Mix (various $15-25\ y20\ g serving$7.00$7.00onlineJay Robb Enterprise "Jaybar"13-16\ y2ns$0.53$0.00onlineAnd Lel-D Pudding Sugar Free Chocolate30.05$0.55onlineNature's Hollow – Sugar Free Kerchup0.8 y20\ g serving$5.40/10 oz.onlineNature's Hollow – Sugar Free Kerchup0.8 y20\ g serving$5.50/10 oz.onlineNature's Hollow – Sugar Free Kerchup0.8 y20\ g serving$5.50/10 oz.onlineNature's Hollow – Sugar Free Kerchup0.8 y20\ g serving$5.00/10 oz.onlineORAL HYGIENE:10%$6.00$8.00/4.5oz.retail & onlineDictore "DY Mouth Toothpaste" (n F)25%$6.000.4.9oz.onlineCest "Multicare Cool Mint Toothpaste"10%$6.00$8.00/4.5oz.retail & onlineTope: Toothpaste Toothpaste"10%$6.00.0.4.902.onlineNOW YQIWMite Toothpaste"25%$6.000.4.902.onlineTope: Toothpaste "Take Home Care", "White0%$7.00$11.004.002.onlineCref"0.72%$6.00.0.4.902.conlineonlineCref"0.72%$6.00.0.4.902.conlineonlineCref"0.72%$6.00.0.4.902.conlineonlineCref"0.72%$6.00.0.4.902.conlineonlineCref"0.72%$6.00.0.4.902.conlineonlineCref"0.72%$6.00.0.4.902.conlinefor conlineCref"0.72%$6.00.0.4.902.$				
Lyk Robb Enterprise "Jaybar"     13-16 g/bar     \$3.00/bar     online       Kard Iel-D Pudding Sugar Free Chocolate     7 g/serving     \$5.54/010 oz.     online       Nature's Hollow (Probs) - Sugar Free Sam     4.5 g/20 g serving     \$5.5/010 oz.     online       Nature's Hollow - Sugar Free Ketchup     0.8 g/20 g serving (%)     \$5.5/010 oz.     online       Nature's Hollow - Sugar Free Ketchup     0.8 g/20 g serving (%)     \$5.5/010 oz.     online       Smart Sweet Xylitol Jam (various flavors)     8 g/20 g serving     \$7.00/10 oz.     online       Smart Sweet Xylitol Jam (various flavors)     8 g/20 g serving     \$7.00/10 oz.     online       Cest "Multicre: Col Mint Toothpaste"     10%     \$6.00-48.00/4.5oz     retail & online       Grest "Multicre: Col Mint Toothpaste"     10%     \$3.0 - 45.00.6.2oz     online       Stry Toothpaste (no F)     25%     \$6.00/4.9oz     online       Stry Toothpaste (no F)     25%     \$5.00-57.00/4.5 oz.     retail & online       Surgiel "Entamel Saver Toothpaste"     36% (0.24% sodium fluoride)     \$7.00 - \$7.00/4.5 oz.     retail & online       Gariel "Day Mouth Toothpaste"     NC <sup>c†</sup> 2nd of 2 polyols (7h ingre.)     \$14.00/4.0oz     online       Gariel "Day Mouth Toothpaste"     NC 2d of 2 polyols (7h ingre.)     \$4.00 - \$5.00/4.5oz     retail & online       Gariel "Tow Mouth Toothpa		6 6 6 6		
Nature's Hollow (Probs) – Sugar Free Jam     4.5 g/20 g'serving     \$5.4010 oz. <sup>-</sup> online       Nature's Hollow – Sugar Free Kethup     0.8 g/20 g serving (%)     \$5.5010 oz.     online       Nature's Hollow – Sugar Free Kethup     0.8 g/20 g serving (%)     \$5.5010 oz.     online       Nature's Hollow – Sugar Free Kethup     0.8 g/20 g serving (%)     \$5.5010 oz.     online       Smart Sweet Xyliftol Jam (various flavors)     8g/20 g serving (%)     \$5.5010 oz.     online       ORAL HYGEREE:     10%     \$6.00 – \$8.004.502     retail & online       Biotene – Dry Mouth Toothpaste? (or DF)     25%     \$6.004.402     online       Figic *Thoride - Free Xylifot Jondpaste?     10%     \$3.80 – \$4.506.402     retail & online       Syng Toothpaster (or D)     25%     \$6.004.402     online       Care"     10% (1.5% sodium fluoride)     \$7.00 – \$11.004.002     online       Care"     10% (1.5% sodium fluoride)     \$7.00 – \$11.004.002     online       Care"     10% (1.6% sodium fluoride)     \$7.00 – \$11.004.002     online       Care"     0.004 from orothpaste" (10% / 10%     \$7.00 – \$11.004.002     online       Care"     NC only sweetener (2nd ingre.)     \$13.50 – \$15.004.002     online       Gal"     Oxyfresh "Super Relief Gel" & Fluoride Dental     NC 2nd 0 2 polyols (1nt ingre.)     \$14.00.40.02		13–16 g/bar	\$3.00/bar	online
Preserves         2.8 g/40 ml serving (7%)         55.40/8.5 oz.         online           Nature's Hollow – Sugar Free Ketchup         0.8 g/20 g serving (4%)         55.50/10 oz.         online           Nature's Hollow – Sugar Free Ketchup         0.8 g/20 g serving (4%)         55.50/10 oz.         online           Smart Sveet Stylid Jan (various flavors)         8g/20 g serving (5%)         55.50/10 oz.         online           ORAL HYGIENE:         I0%         55.00/10 oz.         online           DRAL HYGIENE:         I0%         55.30/10 oz.         online           Epic *Thorida - Free Xylint Toothpaste" (1/~         10%         56.00/4.5oz         retail & online           Striget *Xlint & Horida * Toothpaste"         10%         53.30 - 54.50/6.2oz         retail & online           Striget *Xlint & Horida * Toothpaste"         10%         53.30 - 54.50/6.4oz         online           Striget *Takin Horida * Toothpaste"         25%         56.004.4oz         online           Striget *Takin Horida * Tak Horida Care", "White         10% (1.1% sodium fluoride)         57.00 - 57.004.4oz         online           Orajel *Dry Mouth Toothpaste"         NC only sweetner (2nd ingre.)         54.00 - 55.00/2.0oz         online           Orajel *Dry Mouth Toothpaste         NC only sweetner (2nd ingre.)         54.00 - 55.00/2.0oz         on	Kraft Jell-O Pudding Sugar Free Chocolate	7 g/serving	\$0.65/serving unit	retail
Nature's Hollow - Sugar Free Syrup (various2.8 g/40 ml serving (7%)\$5.40.8.5 oz.onlineNature's Hollow - Sugar Free Ketchup0.8 g/20 g serving (4%)\$5.50110 oz.onlineNature's Hollow - Sugar Free Ketchup0.8 g/20 g serving (4%)\$5.50110 oz.onlineSmart Sweet Xylitol Jam (various flavors)8g/20 g serving (4%)\$5.50110 oz.onlineBiotene "Dry Mouth Toothpaste" (1/-10%\$6.00 - 58.00/4.5oz.retail & onlineCalcium)Cates "Multicare Cool Mint Toothpaste"10%\$3.30 - \$4.506.6.2oz.retail & onlineCrest "Multicare Cool Mint Toothpaste"35%\$6.004.9oz.onlineSprj Toothpaste (no F)25%\$3.80 - \$4.506.4.2oz.retail & onlineSpry Toothpaste (no F)25%\$3.80 - \$4.506.4.0oz.onlineOrw "XyliWhite Toothpaste"10% (1.1% sodium fluoride)\$7.00 - \$11.00/4.0oz.onlineOrajel "Dry Mouth Toothpaste"NC $^{+7}_{-2}$ fad (2 polyols (last\$5.00 - \$7.004.5.oz.retail & onlineCate"NC only sweetener (Chai ingre.)\$1.5.00 - \$15.004.0oz.onlineCate"NC only sweetener (Chai ingre.)\$1.400.40.oz.onlineCate"NC only sweetener (Chai ingre.)\$1.400.40.oz.onlineConfis veetener Stating" Station NO AsylitolTom as Affane Parketif (or D)S3.50 - \$4.500.4.60.oz.retail & onlineConfis veetener Stating" Station NO AsylitolNC call sy evetener (Chai ingre.)\$1.400.4.0.oz.onlineConfis veetener Stating" Station NO AsylitolNC call sy olyols (fah ingre.) <td< td=""><td></td><td>4.5 g/20 g serving</td><td>\$5.40/10 oz.</td><td>online</td></td<>		4.5 g/20 g serving	\$5.40/10 oz.	online
Bavors, O       0.8 g/20 g serving (4%)       55.50/10 oz.       online         Nature's Hollow - Sugar Free Honey       1.6 g/20 g serving (4%)       55.50/10 oz.       online         Sinart Sweet Xylito Jan (various flavors)       8g/20 g serving (4%)       55.50/10 oz.       online         ORAL HYGIENE:       10%       55.50/10 oz.       online         Biotene "Dry Moult Foothpaster (14/-       10%       55.50/10 oz.       online         Cast: "Multicare Cool Mint Toothpaste"       10%       56.00/4.5oz       retail & online         Epic "Florida-Free Xylitol Toothpaste"       10%       53.30 - 54.50/6.2oz       retail & online         Signige "Enamel Saver Toothpaste"       10%       52.70       55.00/4.0oz       online         Signige "Enamel Saver Toothpaste"       10% (1.2% sodium fluoride)       57.00 - 51.00/4.0oz       online         Cast"       NC C <sup>†</sup> 2 and of 2 polyols (last       55.00 - 57.00/4.5 oz.       retail & online         Cast"       NC C <sup>†</sup> 2 and of 2 polyols (last       55.00 - 58.00/3.0 z       online         Cast"       NC C <sup>†</sup> 2 and of 2 polyols (last       55.00 - 58.00/3.0 z       retail & online         Cast"       NC Card of 2 polyols (last       55.00 - 58.00/3.0 z       retail & online         Cast"Barbanet Caster Saver       NC and y sevetner (2 di ngre				
Nature"s Hollow - Sugar Free Ketchup0.8 g/20 g serving (4%)55.50/10 oz.onlineSmart Sweet Xylitol Jam (various flavors)8g/20 g serving (6%)55.50/10 oz.onlineSmart Sweet Xylitol Jam (various flavors)8g/20 g serving (6%)55.50/10 oz.onlineBiotene "Dry Mouth Toothpaste" (1/-10%55.00/10 oz.onlineCrest "Multicare Cool Min Toothpaste"10%53.30 - 54.50/6.2oz.retail & onlineFigi "Fluorid-Free Xylitol Toothpaste"35%56.00/4.9oz.onlineKow "XyliWhite Toothpaste" (26] (no F)25%53.80 - 54.50/6.4oz.retail & onlineSpry Toothpaste (no F)25%53.80 - 54.50/6.4oz.retail & onlineCare"00% (1.1% sodium fluoride)54.00 - 55.50/2.0oz.dental office & onlineCare"00% (1.1% sodium fluoride)54.00 - 55.00/4.0oz.onlineCare"00% (1.1% sodium fluoride)51.50 - 57.00/4.0oz.onlineCare"00% (1.1% sodium fluoride)51.50 - 55.00/4.0oz.onlineCare"NC only sweetener (2nd ingre.)51.50 - 55.00/4.50 z.retail & onlineCare"NC only sweetener (2nd ingre.)51.40.00/4.0 oz.onlineCarlicarino Tom sof Maine Toothpaste"NC 2nd of 2 polyols (7th ingre.)51.00 - 58.00/2.50 z.retail & onlineCarlierNC 2nd of 2 polyols (6th ingre.)51.00 - 58.00/2.50 z.retail & onlineCarlierNC 2nd of 2 polyols (6th ingre.)51.00 - 58.00/2.50 z.onlineCarlierNC 2nd of 2 polyols (3rd ingre.)53.00 - 54.00/1.60 z. <t< td=""><td></td><td>2.8 g/40 ml serving (7%)</td><td>\$5.40/8.5 oz.</td><td>online</td></t<>		2.8 g/40 ml serving (7%)	\$5.40/8.5 oz.	online
Nature's Hollow - Sugar Free Honey'1.6 $g/20$ g serving\$5.50/10 oz.onlineORAL HYCIENE: Biotene 'Dry Mouth Toothpaste''10%\$6.00 - S8.00/4.5ozretail & onlineCalcium)Carcium)10%\$3.30 - S4.50/6.2ozretail & onlineCalcium)25%\$6.00/4.9ozonlineCrest 'Multicare Cool Mint Toothpaste''10%\$3.30 - S4.50/6.2ozretail & onlineEpic 'Fluoride -Free Xylitol Toothpaste''10%\$3.30 - S4.50/6.4 ozretail & onlineSpry Toothpaste (on F)25%\$5.00 - 0.50/0.4 ozonlineSpry Toothpaste (on F)25%\$5.00 - 55.00/4.0ozonlineCare'10%10% of 11% sodium fluoride)\$4.50 - \$5.50/2.0ozdental office & onlineCare'Orpiel 'Dry Mouth Toothpaste''NC $\frac{77}{2}$ and of 2 polyols (last\$5.00 - \$7.00/4.5 oz.retail & onlineGorigi 'Dry Mouth Toothpaste''NC Card of 2 polyols (last\$5.00 - \$5.00/4.0ozonlineGel''Systesh 'Power Paste'' toothpasteNC Card of 2 polyols (lastingre.)ox/fresh 'Stoorretail & onlineGel''Nc only sweetener (2nd ingre.)\$14.00/4.0 ozonlineretail & onlineCorbraste contain NO xylitolNC 2nd of 2 polyols (fth ingre.)\$4.00 - \$5.00/4.60 ozretail & onlineTom's of Maine Toothpaste''NC 2nd of 2 polyols (fth ingre.)\$4.00 - \$5.00/4.60 ozretail & onlineCare''NC Only sweetener (3rd ingre.)\$3.00 - \$4.00/2.5 ozonlineToothpaste Childeen''NC 2nd of 2 polyols (6th ingre.)\$5		0.0.100	<b>\$7.70</b> /10	
Smart Sweet Xylitol Jam (various flavors)         8g/ 20 g serving         \$7.00 / 10 oz         online           Biotene "Dry Mouth Toothpaste" (1/ Calcium)         10%         \$6.00 - \$8.00/4.5oz         retail & online           Diotene "Dry Mouth Toothpaste"         10%         \$3.30 - \$4.50/6.2oz         online           Crest "Multicare Cool Min Toothpaste"         35%         \$6.00/4.9oz         online           Drow "XyliWhite Toothpaste" (Gel (no F)         25%         \$5.80/4.5oz         online           Spry Toothpaste (Tack For Astrono Toothpaste")         35%         \$5.00 - \$1.004.40oz         online           Tops Toothpaste (Tack For Astrono Toothpaste")         36% (0.24% sodium fluoride)         \$4.50 - \$5.50/2.0oz         dental office & online           Care"         07/12 and of 2 polyols (Iast         \$5.00 - \$1.004.40z         online           Oragiet "Dry Mouth Toothpaste"         NC Only sweetener (2nd ingre.)         \$1.4004.0 oz         online           Care"         NC only sweetener (5th ingre.)         \$4.00 - \$5.00/4.50z         online           Oray fresh "Power Paste" toothpaste"         NC 2nd of 2 polyols (7th ingre.)         \$4.00 - \$5.00/4.60z         retail & online           Oray fresh "Power Paste" toothpaste"         NC 2nd of 2 polyols (6th ingre.)         \$4.00 - \$5.00/2.60z         retail & online           Oray fresh "				
ORAL HYOIÉNE:is a finite of the second				
Biotene "Dry Mouth Toothpaste". In 10% S6.00 – \$8.00/4.5oz retail & online Calcium) Crest "Multicare Cool Mint Toothpaste" (no F) 25% S6.00/4.9oz online Toothpaste" (no F) 25% S6.00/4.9oz online NOW "XyliWhite Toothpaste" (Gel (no F) 25% S6.00/4.9oz online Syny Toothpaste (no F) 25% S7.00 – \$11.00/4.0oz online Topex Toothpaste "Take Home Care", "White 10% (1.1% sodium fluoride) \$4.50 – \$5.50/4.0oz online Care" (Take Home Care", "White 10% (1.1% sodium fluoride) \$4.50 – \$5.50/2.0oz dental office & online Care" (Take Home Care", "White 10% (1.1% sodium fluoride) \$4.50 – \$5.50/2.0oz online Care" (Take Home Care", "White 10% (1.1% sodium fluoride) \$4.50 – \$5.50/2.0oz online Gel" & Study and the too the too too the too the too too the too too too too too too too too too to		8g/ 20 g serving	\$7.00710 oz	online
Calcium) $rest "Multicare Cool Mint Toothpaste" 10% $$3.0 = 54.50/6.2oz retail & online Cest "Multicare Cool Mint Toothpaste" 25% $6.00/4.9oz online Toothpaste "Gel (no F) 25% $6.00/4.9oz online Teili & online Toothpaste" Gel (no F) 25% $6.00/4.9oz online Teili & online Toothpaste (no F) 25% $2.70 = 55.00/4.0oz online Toothpaste "Take Home Care", "White Care Care Care Care Care Care Care Car$		10%	\$6.00 \$8.00/4.507	ratail & onling
Crest "Multicare Cool Mint Toothpaste" (no F)10%\$3.30 = 45.06.2ozretail & onlineEpic "Ruoride Free Xyliol A Fluoride Toothpaste" (no F)25%\$6.004.9ozonlineNOW "XyliWhite Toothpaste" (Gel (no F)25%\$3.80 = 54.506.4 ozretail & onlineSpry Toothpaste (no F)25%\$3.80 = 54.506.4 ozretail & onlineSpry Toothpaste "Take Home Care", "White26% (0.24% sodium fluoride)\$7.00 = \$1.1004.0ozonlineCare"Core"10% (1.1% sodium fluoride)\$5.50 = \$7.004.5 ozretail & onlineCare"NC only sweetener (2nd ingre.)\$1.35.0 = \$7.004.4 ozonlineCare"NC only sweetener (2nd ingre.)\$1.35.0 = \$7.004.4 ozonlineCare"NC only sweetener (2nd ingre.)\$1.4004.0 ozonlineGel"NC only sweetener (2nd ingre.)\$6.00 = \$8.00/3ozretail & onlineCares"NC Only sweetener (5th ingre.)\$6.00 = \$8.00/3ozretail & onlineGel"NC only sweetener (5th ingre.)\$6.00 = \$8.00/3ozretail & onlineCares"NC Quity sweetener (5th ingre.)\$6.00 = \$6.00/1.4ozretail & onlineCares"NC Carl of 2 polyols (6th ingre.)\$4.00 = \$5.00/4.60 ozretail & onlineCares"NC Carls of 2 polyols (6th ingre.)\$5.00 = \$6.00/1.4ozretail & onlineCares"NC Carls of 2 polyols (6th ingre.)\$5.00 = \$6.00/1.4ozretail & onlineCares"NC Carls of 2 polyols (6th ingre.)\$5.00 = \$6.00/1.4ozretail & onlineCares"NC Carls of 2 polyols (6th ingre.)\$5.		10%	\$0.00 - \$8.00/4.502	Tetali & Olilille
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Rembrandt Toothpaste "For Canker Sore"NC only sweetener (5th ingre.)\$6.00 - \$8.00/30zretail & onlineTom's of Maine Toothpaste (Gel lines except Anticavity Cinnamint & "for children"NC (varies in ingredient list)\$3.50 - \$4.50/-6.00zretail & onlineTom's of Maine Anticavity Liquid Gel "for children"NC 2nd of 2 polyols (6th ingre.)\$4.00 - \$5.00/4.60 ozretail & onlineTundra Trading "XyliBrush Toothpaste"N/C only sweetener (3rd ingre.)\$3.00 - \$4.00/2.5 ozonlineSpry Infant "Tooth Gel" (no F)NC 1st of 2 polyols (3rd ingre.)\$5.00 - \$6.00/1.4ozretail & onlineGerber Toddler "Tooth & Gum Cleanser" (no F)NC 2nd of 2 polyols (3rd ingre.)\$5.00 - \$6.00/1.4ozretail & onlineF)Cland of 2 polyols (6th ingre.)\$5.00 - \$6.00/1.4ozretail & onlineF)Oral-B "Stages Baby Tooth & GumNC 2nd of 2 polyols (6th ingre.)\$5.00 - \$6.00/1.4ozretail & onlineF)Drale "Stages Baby Tooth & GumNC 2nd of 2 polyols (6th ingre.)\$5.00 - \$6.00/1.4ozretail & onlineF)Drale "Stages Baby Tooth & GumNC 2nd of 2 polyols (6th ingre.)\$5.00 - \$5.00/14 ozretail & onlineF)Drale Stages Baby Tooth & GumNC 2nd of 2 polyols (6th ingre.)\$5.00 - \$5.00/1.4ozretail & onlineSpr (ron F)22%\$5.00 - \$5.00/1.4ozretail & onlineStages Staft & onlineClanser" (no F)0.65 g/wipe (only sweetener)\$5.00 - \$7.70/16ozonlineDrale Stages Baby Tooth & GumNC 2nd of 2 polyols (6th ingre.)\$5.00 - \$7.70/16ozonlineSp		NC 2nd of 2 polyels (7th ingre)	\$14,00/4,0.07	online
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Epic "Oral Rinse"25%\$7.50 0 \$8.50/16ozonlineSpr "Oral Rinse" (no F)22%\$3.70 - \$5.50/16ozonlineBiotene "Oral Balance" Dry mouth gel or liquidNC 2nd of 2 polyols\$5.00 - \$8.00/1.5ozretail & onlineBiotene "Mouthwash"NC 1st of 2 polyols\$6.00 - \$7.70/16ozretail & onlineNOW "XyliWhite Mouthwash"NC only sweetener (2nd ingre.)\$7.00/16ozretail & onlineOasis "Mouth Spray"NC only sweetener (last ingre.)\$5.00 - \$7.70/16ozretail & onlineOrajel "Dry Mouth Moisturizing Spray"NC only sweetener (last ingre.)\$5.00 - \$7.00/1.0 oz.retail & onlineOxyfresh "Mouthrinses" (except Unflavored)NC only polyol (2nd ingredient)\$9.00 - \$13.50/16ozonlineTom's of Maine "Anticavity (fluoride)NC (varies in ingredient list)\$4.00 - \$6.00/16.0ozretail & onlineMouthwash"NC\$4.00 / 250 usesretail & onlineYlifloss "Pocket Dental Flosser"NC (only sweetener)\$1.00/0.40mL doseRx - Dental officeWarnishNC\$1.00/0.40mL doseRx - Dental officeWarnishNC\$15-\$17 / 150tabsretail & online	Dr. Pay's Products "Spiffing Dontal Wings"	0.65 g/wipe (only sweetener)	\$5.50 \$0.00/48 wines	online
Spry "Oral Rinse" (no F)22%\$3.70 - \$5.50/16ozonlineBiotene "Oral Balance" Dry mouth gel or liquidNC 2nd of 2 polyols\$5.00 - \$8.00/1.5ozretail & onlineBiotene "Mouthwash"NC 1st of 2 polyols\$6.00 - \$7.70/16ozretail & onlineNOW "XyliWhite Mouthwash"NC only sweetener (2nd ingre.)\$7.00/16ozretail & onlineOasis "Mouth Spray"NC only sweetener (last ingre.)\$5.00 - \$7.00/1.0 oz.retail & onlineOrajel "Dry Mouth Moisturizing Spray"NC 2nd sweetener (7th\$5.00/1.65 ozretail & onlineOxyfresh "Mouthrinses" (except Unflavored)NC only polyol (2nd ingredient)\$9.00 - \$13.50/16ozonlineTom's of Maine "Anticavity (fluoride)NC (varies in ingredient list)\$4.00 - \$6.00/16.0ozretail & onlineMouthwash"NC\$1.00/0.40mL doseRx - Dental officeVariishNC (only sweetener)\$1.00/0.40mL doseRx - Dental officeVarnishNC\$15-\$17 / 150tabsretail & online				
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NOW "XyliWhite Mouthwash"       NC only sweetener (2nd ingre.)       \$7.00/16oz       retail & online         Oasis "Mouth Spray"       NC only sweetener (last ingre.)       \$5.00 - \$7.00/1.0 oz.       retail & online         Orajel "Dry Mouth Moisturizing Spray"       NC 2nd sweetener (1ast ingre.)       \$5.00 - \$7.00/1.0 oz.       retail & online         Oxyfresh "Mouthrinses" (except Unflavored)       NC 2nd sweetener (7th       \$5.00 - \$13.50/16oz       online         Oxyfresh "Mouthrinses" (except Unflavored)       NC only polyol (2nd       \$9.00 - \$13.50/16oz       online         Tom's of Maine "Anticavity (fluoride)       NC (varies in ingredient list)       \$4.00 - \$6.00/16.0oz       retail & online         Mouthwash"       Xylifloss "Pocket Dental Flosser"       NC       \$4.00 / 250 uses       retain & online         HEALTHCARE:       Sultan "DuraShield" 5% Sodium Fluoride       NC (only sweetener)       \$1.00/0.40mL dose       Rx – Dental office         Varnish       Bayer "Flintstone Vitamins - Complete"       NC       \$15-\$17 / 150tabs       retail & online				
Oasis "Mouth Spray"       NC only sweetener (last ingre.)       \$5.00 - \$7.00/1.0 oz.       retail & online         Orajel "Dry Mouth Moisturizing Spray"       NC 2nd sweetener (7th       \$5.00/1.65 oz       retail & online         Oxyfresh "Mouthrinses" (except Unflavored)       NC only polyol (2nd       \$9.00 - \$13.50/16oz       online         Tom's of Maine "Anticavity (fluoride)       NC (varies in ingredient list)       \$4.00 - \$6.00/16.0oz       retail & online         Mouthwash"       Xylifloss "Pocket Dental Flosser"       NC       \$4.00 / 250 uses       retain & online         HEALTHCARE:       Sultan "DuraShield" 5% Sodium Fluoride       NC (only sweetener)       \$1.00/0.40mL dose       Rx – Dental office         Varnish       NC       \$15-\$17 / 150tabs       retail & online				
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ingredient) Tom's of Maine "Anticavity (fluoride) Mouthwash" Xylifloss "Pocket Dental Flosser" <b>NC</b> (varies in ingredient list) Xylifloss "Pocket Dental Flosser" <b>NC</b> \$4.00 / 250 uses <b>retain &amp; online</b> <b>HEALTHCARE:</b> Sultan "DuraShield" 5% Sodium Fluoride Varnish Bayer "Flintstone Vitamins - Complete" <b>NC</b> \$15-\$17 / 150tabs <b>retail &amp; online</b>		ingredient)		
Tom's of Maine "Anticavity (fluoride)       NČ (varies in ingredient list)       \$4.00 - \$6.00/16.0oz       retail & online         Mouthwash"       NC       \$4.00 / 250 uses       retain & online         HEALTHCARE:       NC       \$4.00/0.40mL dose       Rx – Dental office         Sultan "DuraShield" 5% Sodium Fluoride       NC (only sweetener)       \$1.00/0.40mL dose       Rx – Dental office         Varnish       NC       \$15-\$17 / 150tabs       retail & online	Oxyfresh "Mouthrinses" (except Unflavored)		\$9.00 - \$13.50/16oz	online
Mouthwash" Xylifloss "Pocket Dental Flosser" HEALTHCARE: Sultan "DuraShield" 5% Sodium Fluoride Varnish Bayer "Flintstone Vitamins - Complete" NC NC \$1.00/0.40mL dose \$1.00/0.40mL dose Rx – Dental office \$1.00/0.40mL dose Rx – Dental office \$1.00/0.40mL dose Rx – Dental office \$1.00/0.40mL dose Rx – Dental office				
Xylifloss "Pocket Dental Flosser"     NC     \$4.00 / 250 uses     retain & online       HEALTHCARE:     Sultan "DuraShield" 5% Sodium Fluoride     NC (only sweetener)     \$1.00/0.40mL dose     Rx – Dental office       Varnish     Bayer "Flintstone Vitamins - Complete"     NC     \$15-\$17 / 150tabs     retail & online		NC (varies in ingredient list)	\$4.00 - \$6.00/16.0oz	retail & online
HEALTHCARE:       NC (only sweetener)       \$1.00/0.40mL dose       Rx – Dental office         Sultan "DuraShield" 5% Sodium Fluoride       NC (only sweetener)       \$1.00/0.40mL dose       Rx – Dental office         Varnish       NC       \$15-\$17 / 150tabs       retail & online		NG	\$4.00 / 250	
Sultan "DuraShield" 5% Sodium Fluoride     NC (only sweetener)     \$1.00/0.40mL dose     Rx – Dental office       Varnish     NC     \$15-\$17 / 150tabs     retail & online		INC	\$4.00 / 250 uses	retain & online
Varnish Bayer "Flintstone Vitamins - Complete" NC \$15-\$17 / 150tabs retail & online		NC (only sweetener)	\$1.00/0.40mJ_doco	Ry Dontal office
Bayer "Flintstone Vitamins - Complete" NC \$15-\$17 / 150tabs retail & online		inc (only sweetener)	\$1.00/0.40IIL dose	$\mathbf{K}\mathbf{x} = \mathbf{D}$ entar onnce
		NC	\$15-\$17 / 150tabs	retail & online
	Bayer "One a Day Kids Vitamins - Complete"	NC	\$5.00-\$8.50/50 tabs	retail & online

PRODUCTS <sup>*</sup>	XYLITOL Content	$\mathbf{COST}^{\dagger}$ per unit	AVAILABILITY
Jarrow Formulas "DentaShield" supplement	1 g/chewable tablet	\$16.00/60 tabs	retail & online
Sundown "Spiderman Complete Vitamins"	NČ	\$7.00-\$8.00/60 tabs	retail & online
Micro Spray "Vitamin Sprays"	NC (2nd ingredient)	\$13.00-\$20.00/9ml	online
B&T "Echina Spray"	NC	\$6.00-\$10.00/0.68 oz	online
Nicorette "Gum"-Mint	NC (last ingredient)	\$27-\$33 / 40 pieces	retail & online
NOW "Activated Nasal Mist" with Xylitol	NC (2nd ingredient)	\$9.00/2 oz	retail & online
Xlear "Nasal Wash"	NC (2nd ingredient)	\$11.50-\$14.00/1.5 oz	retail & online
Talking Rain "Kid's Drink" with Xylitol	NC	\$0.60/10 oz bottle	retail

\* Product list is not exhaustive. Xylitol market is rapidly changing and new xylitol containing product appears frequently. Aside from toothpaste, most products have not been studied or published in peer-review journals thus the potential impact on caries reduction is not known.

 $t^{\dagger}$ Cost varies based on retail and convenient stores. Stated cost based on a few Seattle area retailers.

 $^{\dagger \dagger}$  NC = Not Certain. Information can not be derived from market packaging and not successful in obtaining information from company information representative